

## CERTIFICATE OF ANALYSIS

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

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:	Lab/PN/3958D/79/01	Sampling Start Date:	28/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	01/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	03/03/2025
Sample Description:	Near Mine Office	Analysis start- End Date:	03/03/2025-10/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	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)	73.35	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.15	µg/m3	GGMPL/SOP/AA/60	60
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= Quantification Limit

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Gyanvati Shukla



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Payal Patel

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## CERTIFICATE OF ANALYSIS

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

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:	Lab/PN/3958D/79/02	Sampling Start Date:	28/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	01/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	03/03/2025
Sample Description:	Near Guest House	Analysis start- End Date:	03/03/2025-10/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	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)	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= Quantification Limit

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 11/03/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3958D/79/03	Sampling Start Date:	28/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	01/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	03/03/2025
Sample Description:	Near Tirodi Village	Analysis start- End Date:	03/03/2025-10/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	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)	70.33	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= Quantification Limit

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## CERTIFICATE OF ANALYSIS

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

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:	Lab/PN/3958D/79/04	Sampling Start Date:	28/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	01/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	03/03/2025
Sample Description:	Near Officer Colony	Analysis start- End Date:	03/03/2025-10/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	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)	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 Limit

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 11/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

28/02/2025

Sample By Hasanali Roshanali Sunasara

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3958D/7 9/05A	Near Office 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	-
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	-

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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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3958D/79/06	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	04/03/2025
Sample Description:	Open Dug well No-03	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
1	Alkalinity as CaCO <sub>3</sub>	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	Agreeable	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 SO <sub>4</sub> 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 CaCO <sub>3</sub>	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

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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	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	04/03/2025
Sample Description:	Open Dug well No-03	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	1.45	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/79/07

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:	Lab/PN/3958D/79/07	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of Officer Colony Supply	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
1	Alkalinity as CaCO <sub>3</sub>	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	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.60	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.88	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> 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 CaCO <sub>3</sub>	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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Tantan kumar & Dr. Haragobinda Srichandan



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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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3958D/79/07	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of Officer Colony Supply	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	1.84	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

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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



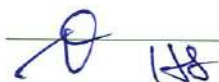
### SAMPLE DETAILS

Lab ID:	Lab/PN/3958D/79/08	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of Staff Quarter Water Supply	Analysis End Date:	10/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

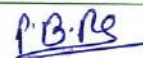
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	156.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	46.49	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	50.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.50	mg/L	APHA 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 SO <sub>4</sub> 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 CaCO <sub>3</sub>	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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3958D/79/08	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of Staff Quarter Water Supply	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	1.76	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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3958D/79/09	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Waste Water	Analysis Start Date:	03/03/2025
Sample Description:	Mine Discharge Water Block No A-B Pit	Analysis End Date:	10/03/2025
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.52	-	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 °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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## CERTIFICATE OF ANALYSIS

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

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	: Lab/PN/3958D/79/10	Sampling Start Date	: 28-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 01-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 03-03-2025
Sample Location	: Near Mine Office		

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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## CERTIFICATE OF ANALYSIS

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

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	: Lab/PN/3958D/79/11	Sampling Start Date	: 28-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 01-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 03-03-2025
Sample Location	: Near Guest House		

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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## 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	: Lab/PN/3958D/79/12	Sampling Start Date	: 28-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 01-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 03-03-2025
Sample Location	: Near Tirodi Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	85.00	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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## CERTIFICATE OF ANALYSIS

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

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	: Lab/PN/3854D/971/13	Sampling Start Date	: 28-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 01-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 03-03-2025
Sample Location	: Near Officer Colony		

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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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 10/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3959D/79A/01	Sampling Start Date:	28/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	01/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	03/03/2025
Sample Description:	Near Sampling Room	Analysis start- End Date:	03/03/2025-10/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	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)	69.01	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	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 Limit

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 10/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3959D/79A/02	Sampling Start Date:	28/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	01/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	03/03/2025
Sample Description:	Near Dumping Area	Analysis start- End Date:	03/03/2025-10/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	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)	71.56	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 Limit

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 10/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Hasanali Roshanali Sunasara

Sampling Date:

28/02/2025

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3959D/79A/03A	Near Sampling Room	Day Time	dB(A)Leq	IS 4758	63.9	-
2	Lab/PN/3959D/79A/03B	Near dumping area	Day Time	dB(A)Leq	IS 4758	65.1	-

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

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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:	Lab/PN/3959D/79A/04	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of sampling Room water Supply	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
1	Alkalinity as CaCO <sub>3</sub>	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	Agreeable	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 SO <sub>4</sub> 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 CaCO <sub>3</sub>	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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Report Number: GGMPL/PN/3959D/79A/04

Reporting Date : 10/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3959D/79A/04	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of sampling Room water Supply	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	1.92	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/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	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of Dumping area water Supply	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	AI	PI
1	Alkalinity as CaCO <sub>3</sub>	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	Agreeable	Agreeable
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 SO <sub>4</sub> 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 CaCO <sub>3</sub>	198.00	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/3959D/79A/05

Reporting Date : 10/03/2025

M/s Moil Limited

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



### 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
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of Dumping area water Supply	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

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 10-03-2025

**M/s Moil Limited**

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



10-03-2025

### SAMPLE DETAILS

Lab ID	: Lab/PN/3959D/79A/06	Sampling Start Date	: 28-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 01-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 03-03-2025
Sample Location	: Near Sampling Room		

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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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 10-03-2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID	: Lab/PN/3959D/79A/07	Sampling Start Date	: 28-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 01-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 03-03-2025
Sample Location	: Near Dumping Area		

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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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 10/03/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3960D/79B/01	Sampling Start Date:	28/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	01/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	03/03/2025
Sample Description:	Near Pit Office	Analysis start- End Date:	03/03/2025-10/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	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)	73.11	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= Quantification Limit

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Gyanvati Shukla



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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 10/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3960D/79B/03	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of Pit Office water Supply	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
1	Alkalinity as CaCO <sub>3</sub>	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 SO <sub>4</sub> 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 CaCO <sub>3</sub>	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 Limit

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Tantan kumar & Dr. Haragobinda Srichandan



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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 10/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3960D/79B/03	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of Pit Office water Supply	Analysis End Date:	10/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Parking:	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	2.01	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

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 10-03-2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

Lab ID	: Lab/PN/3960D/79B/04	Sampling Start Date	: 28-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 01-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 03-03-2025
Sample Location	: Near Pit Office		

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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---End of Report---

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 10/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3961D/79C/01	Sampling Start Date:	28/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	01/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	03/03/2025
Sample Description:	Near Railway Siding Office	Analysis start- End Date:	03/03/2025-10/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	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)	71.38	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m <sup>3</sup>	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO <sub>2</sub> )	16.08	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Oxides of Nitrogen	23.12	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O <sub>3</sub> )	12.90	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH <sub>3</sub> )	9.72	µg/m <sup>3</sup>	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m <sup>3</sup>	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/3961D/79C/02

Reporting Date: 10/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3961D/79C/02	Sampling Start Date:	28/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	01/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	03/03/2025
Sample Description:	End of North Railway Siding	Analysis start- End Date:	03/03/2025-10/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	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)	73.76	µg/m <sup>3</sup>	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m <sup>3</sup>	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO <sub>2</sub> )	16.89	µg/m <sup>3</sup>	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.51	µg/m <sup>3</sup>	IS 5182- Part 6	80
5	Ozone (O <sub>3</sub> )	14.44	µg/m <sup>3</sup>	IS 5182- Part 9	180
6	Ammonia (NH <sub>3</sub> )	16.66	µg/m <sup>3</sup>	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09.	mg/m <sup>3</sup>	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m <sup>3</sup>	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 10/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Hasanali Roshanali Sunasara

Sampling Date: 28/02/2025  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3961D/79C/03A	North Railway Siding Office	Day Time	dB(A)Leq	IS 4758	58.1	-
2	Lab/PN/3961D/79C/03B	End Of North Railway Siding	Day Time	dB(A)Leq	IS 4758	59.0	-

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

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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 10/03/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3961D/79C/04	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of North Railway Siding office	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
1	Alkalinity as CaCO <sub>3</sub>	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	Agreeable	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 SO <sub>4</sub> 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 CaCO <sub>3</sub>	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

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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 10/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

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

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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 10/03/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3961D/79C/05	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of End Of North Railway Siding	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
1	Alkalinity as CaCO <sub>3</sub>	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	Agreeable	Agreeable
8	pH at 25 °C	7.58	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	29.50	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> 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 CaCO <sub>3</sub>	190.00	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/3961D/79C/05

Reporting Date : 10/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3961D/79C/05	Sampling Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	03/03/2025
Sample Description:	G.W of End Of North Railway Siding	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	3.03	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/3961D/79C/06

Reporting Date: 10-03-2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

Lab ID	: Lab/PN/3961D/79C/06	Sampling Start Date	: 28-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 01-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 03-03-2025
Sample Location	: Near Railway Siding Office		

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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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3961D/79C/07

Reporting Date: 10-03-2025

**M/s Moil Limited**

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



TC-7073

### SAMPLE DETAILS

Lab ID : Lab/PN/3961D/79C/07  
Sampling Instrument : Weather Monitoring Station  
Sample Type : Meteorological Parameter  
Sample Location : End of North Railway Siding

Sampling Start Date : 28-02-2025  
Sampling End Date : 01-03-2025  
Sample Receipt Date : 03-03-2025

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



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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 12/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3973D/79D/01	Sampling Start Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	02/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2025
Sample Description:	South Railway Siding Office	Analysis start- End Date:	05/03/2025-11/03/2025
Env. Cond. Sampling:	Temp-31°C/ Humidity-48%	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)	75.63	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)	16.08	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.26	µg/m3	IS 5182- 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 Limit

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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:	Lab/PN/3973D/79D/02	Sampling Start Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	02/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2025
Sample Description:	End of South Railway Siding	Analysis start- End Date:	05/03/2025-11/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-48%	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)	73.42	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= Quantification Limit

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 11/03/2025

M/s Moil Limited

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



TC-7073

### 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/79D/03A	South Railway Siding Office	Day Time	dB(A)Leq	IS 4758	56.4	-
2	Lab/PN/3973D/79D/03B	End of South Railway Siding	Day Time	dB(A)Leq	IS 4758	58.2	-

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

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Tantan Kumar



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Manish Kumawat

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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	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	04/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	G.W of South Railway Siding office	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	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 SO <sub>4</sub> 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 CaCO <sub>3</sub>	150.00	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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Tantan kumar & Dr. Haragobinda Srichandan



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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 11/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3973D/79D/04	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	04/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	G.W of South Railway Siding office	Analysis End Date:	11/03/2025
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	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: GGMP/L/PN/3973D/79D/05

Reporting Date : 11/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3973D/79D/05	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	G.W of End Of South Railway Siding	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	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	6.5-8.5	No relaxation
9	Sulphate	33.66	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> 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 CaCO <sub>3</sub>	220.00	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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Tantan kumar & Dr. Haragobinda Srichandan



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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 11/03/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3973D/79D/05	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	03/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	G.W of End Of South Railway Siding	Analysis End Date:	11/03/2025
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	1.68	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: GGMP/LN/3973D/79D/06

Reporting Date: 11-03-2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

Lab ID	: Lab/PN/3973D/79D/06	Sampling Start Date	: 01-03-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04-03-2025
Sample Location	: South Railway Siding Office		

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

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Tantun Kumar



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Manish Kumawat

-----End of Report-----

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