

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1433E/310/01

Reporting Date: 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1433E/310/01	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Main Office	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-75%	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 (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.68	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.42	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.80	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.95	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	61.91	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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


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Gyanvati Shukla




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1433E/310/02

Reporting Date: 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/1433E/310/02	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Guest House	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-75%	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 (PM2.5)	39.16	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.81	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.47	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.77	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.99	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	69.65	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1433E/310/03

Reporting Date: 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1433E/310/03	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Tirodi Village	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-75%	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 (PM2.5)	38.74	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	11.93	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.32	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	10.60	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.96	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	67.43	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1433E/310/04

Reporting Date: 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1433E/310/04	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Officer Colony	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-75%	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 (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	12.58	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.74	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.23	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.93	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	66.32	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

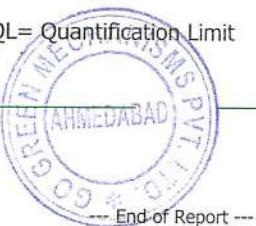
SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

Sampling Date: 27/08/2025
Sample Description: Source Noise

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

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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1433E/310/06

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449

Reporting Date : 06/09/2025



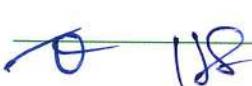
SAMPLE DETAILS

Lab ID:	Lab/PN/1433E/310/06	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Open Duwell No-3	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

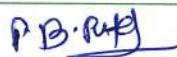
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	248.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	73.74	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	32.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.64	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	23.81	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.13	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.66	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	380.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	10.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	282.00	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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Page No : 1/2

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Reporting Date : 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1433E/310/06	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Open Duwell No-3	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.0	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	4.98	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

10 UK

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Tantan kumar & Dr. Haragobinda Srichandan



P. B. Rudel

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1433E/310/07

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449

Reporting Date : 06/09/2025



TC-7073

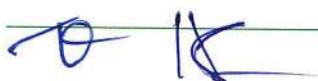
SAMPLE DETAILS

Lab ID:	Lab/PN/1433E/310/07	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Officer Colony Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

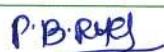
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	178.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	44.88	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	38.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.48	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.38	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.02	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	20.46	mg/L	APHA 24th Edn 4500 SO ₄ 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 ₃	200.00	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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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1433E/310/07

Reporting Date : 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/1433E/310/07	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Officer Colony Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

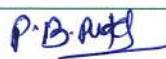
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.5	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.48	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	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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Tantan Kumar & Dr. Haragobinda Srichandan

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1433E/310/08

Reporting Date : 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1433E/310/08	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Staff Quarter Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	188.00	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	36.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.46	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.30	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	6.98	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	19.55	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	316.00	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 ₃	210.00	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/1433E/310/08

Reporting Date : 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/1433E/310/08	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Staff Quarter Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	3.0	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	2.67	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.

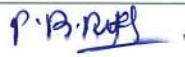
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1433E/310/09

Reporting Date : 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

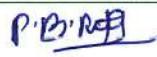
Lab ID:	Lab/PN/1433E/310/09	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Waste Water	Analysis Start Date:	30/08/2025
Sample Description:	Mine Discharge Water Pit No-6	Analysis End Date:	05/09/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.18	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	10.00	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)	28.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.0	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	7.0	mg/L	IS 3025- Part 44	-
7	Manganese	0.68	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/1433E/310/10

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449

Reporting Date : 06/09/2025



SAMPLE DETAILS

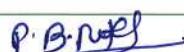
Lab ID:	Lab/PN/1433E/310/10	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Waste Water	Analysis Start Date:	30/08/2025
Sample Description:	Mine Discharge Water Pit No-7	Analysis End Date:	05/09/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.15	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	14.00	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)	32.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.2	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	7.5	mg/L	IS 3025- Part 44	-
7	Manganese	0.95	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/1433E/310/11

Reporting Date : 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1433E/310/11	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Waste Water	Analysis Start Date:	30/08/2025
Sample Description:	South Bed Mine Discharge Water	Analysis End Date:	05/09/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.47	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	64.00	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)	40.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	3.8	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	10.7	mg/L	IS 3025- Part 44	-
7	Manganese	0.53	mg/L	GGMPL/SOP/W&WW/46	-

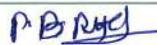
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1433E/310/12

Reporting Date: 06.09.2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist.
 Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

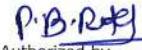
Lab ID	: Lab/PN/1433E/310/12	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Main Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.1	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1433E/310/13

Reporting Date: 06.09.2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID	: Lab/PN/1433E/310/13	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Guest house		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.1	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla



---End of Report---



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Payal Patel

Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1433E/310/14

Reporting Date: 06.09.2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/1433E/310/14	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Tirodi Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.1	m/s	GGMPL/SOP/MP/01

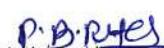


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1433E/310/15

Reporting Date: 06.09.2025

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

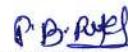
Lab ID	: Lab/PN/1433E/310/15	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Officer Colony		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.1	m/s	GGMPL/SOP/MP/01



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----End of Report----

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1434E/311/01

Reporting Date: 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi, Tah. Tirodi, Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1434E/311/01	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Sampling Room	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-75%	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 (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.68	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.13	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.80	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.53	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.97	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	67.56	µg/m3	IS 5182- Part 23	100

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/1434E/311/02

Reporting Date: 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1434E/311/02	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Dumping Area	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-75%	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 (PM2.5)	25.82	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.60	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.39	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.77	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.95	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.93	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	60.15	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1434E/311/03

Reporting Date: 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

Sampling Date: 27/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1434E/3 11/03A	Near Sampling Room	Day Time	dB(A)Leq	IS 4758	69	-
2	Lab/PN/1434E/3 11/03B	Near Dumping Area	Day Time	dB(A)Leq	IS 4758	64	-

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

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1434E/311/04

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449

Reporting Date : 06/09/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1434E/311/04	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Sampling Room Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	235.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	52.10	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	44.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.88	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	31.59	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.13	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.67	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	380.00	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

AL & PL as per IS 10500.

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

18

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Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1434E/311/04

Reporting Date : 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

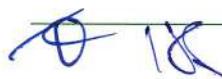
SAMPLE DETAILS

Lab ID:	Lab/PN/1434E/311/04	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Sampling Room Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	260.00	mg/L	APHA 24th Edn 2340 C	200	600
13	Turbidity	2.0	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	5.41	mg/L	APHA 24th Edn 4500 NO ₃ 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

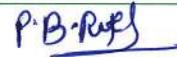
AL & PL as per IS 10500.

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1434E/311/05

Reporting Date : 15/09/2025

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/1434E/311/05	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Near Dumping Area Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

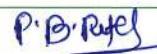
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	228.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	51.30	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	42.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.69	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	4.37	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.13	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	24.47	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	365.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 24th Edn 2540 D	NS	NS

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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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1434E/311/05

Reporting Date : 15/09/2025

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi, Tah. Tirodi, Dist.
Balaghat (M.P) 481449



TC-7073

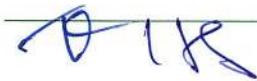
SAMPLE DETAILS

Lab ID:	Lab/PN/1434E/311/05	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Near Dumping Area Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	256.00	mg/L	APHA 24th Edn 2340 C	200	600
13	Turbidity	2.0	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	4.73	mg/L	APHA 24th Edn 4500 NO ₃ 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.

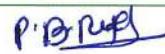
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1434E/311/06

Reporting Date: 06.09.2025

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat
(M.P) 481449



SAMPLE DETAILS

Lab ID	: Lab/PN/1434E/311/06	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Sampling Room		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.1	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla




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---End of Report---

Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1434E/311/07

Reporting Date: 06.09.2025

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat
(M.P) 481449



TC-7073

SAMPLE DETAILS

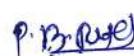
Lab ID	: Lab/PN/1434E/310/07	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Dumping Room		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.1	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1435E/312/01

Reporting Date: 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat
(M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1435E/312/01	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Pit Office	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-75%	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 (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.52	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	32.48	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.45	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.90	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	68.77	µg/m3	IS 5182- Part 23	100

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/1435E/312/02

Reporting Date: 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P.) 481449



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

Sampling Date: 27/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1435E/3 12/02	Near Pit Office	Day Time	dB(A)Leq	IS 4758	65	-

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

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Payal Patel

A circular stamp with the text "GREF MECHANISMS PRIVATE LTD." around the perimeter and "AHMEDABAD" in the center. Above the stamp, the words "IDENTIFICATION LIMIT" are handwritten in black ink.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1435E/312/03

Reporting Date : 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat
(M.P) 481449



TC-7073

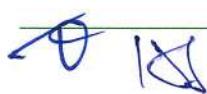
SAMPLE DETAILS

Lab ID:	Lab/PN/1435E/312/03	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Near Pit Office Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	408.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	100.20	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	137.95	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.28	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	60.75	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.21	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	64.59	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	804.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	10.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	500.00	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

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Reporting Date : 06/09/2025

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat
(M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/1435E/312/03	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Near Pit Office Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.0	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	7.62	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/1435E/312/04

Reporting Date: 06.09.2025

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/1435E/312/04	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Pit Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.1	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla



----End of Report----



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1436E/313/01

Reporting Date: 05/09/2025

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (North) PO. Tirodi, Tah. Tirodi, Dist.
Balaghat (M.P.) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/1436E/313/01	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	North Railway Siding Office	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-29°C/ Humidity-75%	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 (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.78	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.90	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.49	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	9.89	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.17	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	70.49	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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

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Gyanvati Shukla

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Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1436E/313/02

Reporting Date: 05/09/2025

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (North) PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

Sampling Date: 27/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1436E/3 13/02	North railway Siding Office	Day Time	dB(A)Leq	IS 4758	60.3	-

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

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Gyanvati Shukla

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1436E/313/03

Reporting Date : 05/09/2025

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (North) PO. Tirodi, Tah. Tirodi, Dist.
Balaghat (M.P) 481449



TC-7073

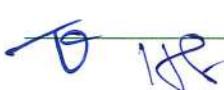
SAMPLE DETAILS

Lab ID:	Lab/PN/1436E/313/03	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	North Railway Siding Office Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	131.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	42.89	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	53.98	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	18.71	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	20.26	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	284.00	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 ₃	184.00	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/1436E/313/03

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (North) PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449

Reporting Date : 05/09/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1436E/313/03	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	North Railway Siding Office Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 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	2.41	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.

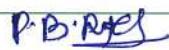
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1436E/313/04

Reporting Date: 05-09-2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

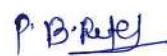
Lab ID	: Lab/PN/1436E/313/04	Sampling Start Date	: 27-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30-08-2025
Sample Location	: North Railway Siding Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	3.00	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	29.0	°C	GGMPL/SOP/MP/01



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Gyanvati Shukla



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Page 1 of 1

----End of Report----

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1437E/314/01

Reporting Date: 05/09/2025

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (South) PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1437E/314/01	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	South Railway Siding Office	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C/ Humidity-75%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

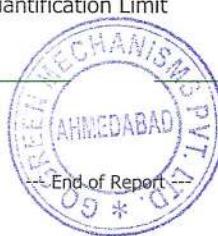
Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.15	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	31.90	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	73.17	µg/m3	IS 5182- Part 23	100

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/1437E/314/02

Reporting Date: 05/09/2025

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (South) PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P.) 481449



TC-7073

SAMPLE DETAILS

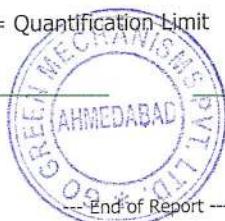
Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

Sampling Date: 27/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1437E/3 14/02	South railway Siding Office	Day Time	dB(A)Leq	IS 4758	61	-

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

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Reporting Date : 05/09/2025

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (South) PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P.) 481449



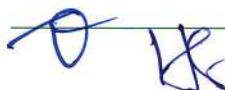
SAMPLE DETAILS

Lab ID:	Lab/PN/1437E/314/03	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	South Railway Siding Office Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

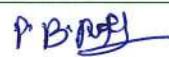
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	121.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	34.47	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	31.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.49	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	10.45	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.62	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	16.75	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	235.00	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 ₃	129.00	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/1437E/314/03

Reporting Date : 05/09/2025

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (South) PO. Tirodi, Tah. Tirodi, Dist.
Balaghat (M.P) 481449



TC-7073

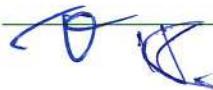
SAMPLE DETAILS

Lab ID:	Lab/PN/1437E/314/03	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	South Railway Siding Office Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 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	0.61	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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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1437E/314/04

Reporting Date: 05-09-2025

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (South) PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

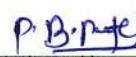
Lab ID	: Lab/PN/1437E/314/04	Sampling Start Date	: 27-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30-08-2025
Sample Location	: South Railway Siding Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	3.00	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	27.0	°C	GGMPL/SOP/MP/01



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Gyanvati Shukla

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----End of Report----

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