

## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/2432E/310/01

Reporting Date: 02/12/2025

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

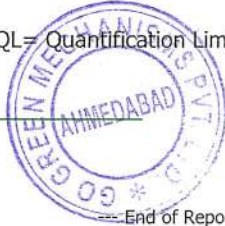
Lab ID:	Lab/PN/2432E/310/01	Sampling Start Date:	23/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	24/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2025
Sample Description:	Near Main Office	Analysis start- End Date:	26/11/2025-01/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-65%	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)	35.82	µg/m3	GGMP/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.48	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.50	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.83	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.60	µg/m3	GGMP/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)	1.06	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)	68.54	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

Reviewed & Authorized by  
Tantan Kumar



---End of Report ---

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Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2432E/310/02

Reporting Date: 02/12/2025

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/2432E/310/02	Sampling Start Date:	23/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	24/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2025
Sample Description:	Near Guest House	Analysis start- End Date:	26/11/2025-01/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-65%	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)	14.08	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.97	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.43	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.51	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)	1.07	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)	70.64	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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Tantan Kumar



  
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Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2432E/310/03

Reporting Date: 02/12/2025

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/2432E/310/03	Sampling Start Date:	23/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	24/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2025
Sample Description:	Near Tirodi Village	Analysis start- End Date:	26/11/2025-01/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-65%	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)	12.87	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	24.92	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.83	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.60	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)	1.11	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)	66.46	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2432E/310/04

Reporting Date: 02/12/2025

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/2432E/310/04	Sampling Start Date:	23/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	24/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2025
Sample Description:	Officer Colony	Analysis start- End Date:	26/11/2025-01/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-65%	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 (SO <sub>2</sub> )	13.95	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.61	µg/m3	IS 5182- Part 6	80
4	Ozone (O <sub>3</sub> )	13.11	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH <sub>3</sub> )	14.00	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)	1.06	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)	69.53	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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Reporting Date: 02/12/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : shailesh pandey

Sampling Date: 23/11/2025  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2432E/3 10/05A	Near Office Premises	Day Time	dB(A)Leq	IS 4758	60	-
2	Lab/PN/2432E/3 10/05B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	62	-
3	Lab/PN/2432E/3 10/05C	Jack Hammer Drill Machine	Day Time	dB(A)Leq	IS 4758	65	-
4	Lab/PN/2432E/3 10/05D	Near Excavation	Day Time	dB(A)Leq	IS 4758	66	-

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

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Tantan Kumar



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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2432E/310/06

Reporting Date : 02/12/2025

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/2432E/310/06	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Open Dugwell No-2	Analysis End Date:	01/12/2025
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 <sub>3</sub>	270.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	62.52	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	35.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.72	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	32.56	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.23	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	24.83	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	420.00	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
12	Total Hardness as CaCO <sub>3</sub>	290.00	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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Payal Patel

Page No : 1/2

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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

Lab ID:	Lab/PN/2432E/310/06	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Open Dugwell No-2	Analysis End Date:	01/12/2025
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	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	5.21	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

*T. H.*

Reviewed & Authorized by  
Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---

*P. B. Patel*

Reviewed & Authorized by  
Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

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Reporting Date : 02/12/2025

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/2432E/310/07	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Officer Colony Water Supply Borewell Water	Analysis End Date:	01/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

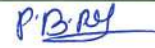
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	200.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	48.10	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	32.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.52	mg/L	APHA 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	7.16	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.60	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	335.00	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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Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2432E/310/07

Reporting Date : 02/12/2025

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/2432E/310/07	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Officer Colony Water Supply Borewell Water	Analysis End Date:	01/12/2025
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	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	2.64	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.

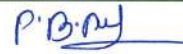
NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2432E/310/08

Reporting Date : 02/12/2025

M/s Moil Limited

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



TC-7073

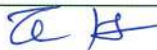
### SAMPLE DETAILS

Lab ID:	Lab/PN/2432E/310/08	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Staff Quarter Water Supply Borewell Water	Analysis End Date:	01/12/2025
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 CaCO3	213.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	47.29	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	34.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.52	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	27.22	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.06	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.31	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	348.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	230.00	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/2432E/310/08

Reporting Date : 02/12/2025

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/2432E/310/08	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Staff Quarter Water Supply Borewell Water	Analysis End Date:	01/12/2025
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	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	2.40	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

*T K*

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Tantan kumar & Dr. Haragobinda Srichandan



*P.B.P*

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2432E/310/09

Reporting Date : 02/12/2025

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/2432E/310/09	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Waste Water	Analysis Start Date:	26/11/2025
Sample Description:	South Bed Mine Discharge Water	Analysis End Date:	01/12/2025
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	7.52	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	52.00	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	5.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	10	mg/L	IS 3025- Part 44	-
7	Manganese	0.176	mg/L	GGMPL/SOP/W&WW/46	-

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





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Tantan Kumar

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/2432E/310/10

Reporting Date : 02/12/2025

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/2432E/310/10	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Waste Water	Analysis Start Date:	26/11/2025
Sample Description:	Mine Discharge Water Pit No-6	Analysis End Date:	01/12/2025
Sample Quantity:	4 L	Sampling Method:	GGMP/LWI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.28	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	12.00	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	5.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	8	mg/L	IS 3025- Part 44	-
7	Manganese	0.18	mg/L	GGMP/LSOP/W&WW/46	-

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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/2432E/310/11

Reporting Date : 02/12/2025

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/2432E/310/11	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Waste Water	Analysis Start Date:	26/11/2025
Sample Description:	Mine Discharge Water Pit No-7	Analysis End Date:	01/12/2025
Sample Quantity:	4 L	Sampling Method:	GGMP/ WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed


Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.22	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	12.00	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	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	8	mg/L	IS 3025- Part 44	-
7	Manganese	0.13	mg/L	GGMP/ SOP/W&WW/46	-

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

  
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Tantan Kumar



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/PN/2432E/310/12

Reporting Date: 02.12.2025

**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/2432E/310/12	Sampling Start Date	: 23.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 24.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 26.11.2025
Sample Location	: Near Main Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMP/SOP/MP/01
2	Relative Humidity	65.0	%	GGMP/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/SOP/MP/01
4	Wind Speed	0.8	m/s	GGMP/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2432E/310/13

Reporting Date: 02.12.2025

**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/2432E/310/13	Sampling Start Date	: 23.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 24.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 26.11.2025
Sample Location	: Near Guest House		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	0.8	m/s	GGMPL/SOP/MP/01

  
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 Tantan Kumar



  
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 Manish Kumawat

End of Report

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2432E/310/14

Reporting Date: 02.12.2025

**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/2432E/310/14	Sampling Start Date	: 23.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 24.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 26.11.2025
Sample Location	: Near Tirodi Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	0.8	m/s	GGMPL/SOP/MP/01

Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/2432E/310/15

Reporting Date: 02.12.2025

**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/2432E/310/15	Sampling Start Date	: 23.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 24.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 26.11.2025
Sample Location	: Officer Colony		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMP/SOP/MP/01
2	Relative Humidity	65.0	%	GGMP/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/SOP/MP/01
4	Wind Speed	0.8	m/s	GGMP/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number : GGMLP/PN/2419E/311/01

Reporting Date: 02/12/2025

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/2419E/311/01	Sampling Start Date:	23/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	24/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2025
Sample Description:	Near Sampling Room	Analysis start- End Date:	26/11/2025-01/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-65%	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)	38.33	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.95	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.61	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.39	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.41	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)	1.05	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)	76.67	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/2419E/311/02

Reporting Date: 02/12/2025

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/2419E/311/02	Sampling Start Date:	23/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	24/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2025
Sample Description:	Near Dumping Room	Analysis start- End Date:	26/11/2025-01/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-65%	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)	14.09	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.94	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.43	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.01	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)	1.09	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)	70.58	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: GGMP/L/PN/2419E/311/03

Reporting Date: 02/12/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Shailesh Pandey

Sampling Date: 23/11/2025  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2419E/3 11/03A	Near Sampling Room	Day Time	dB(A)Leq	IS 4758	61.4	-
2	Lab/PN/2419E/3 11/03B	Near Dumping Room	Day Time	dB(A)Leq	IS 4758	65.7	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2419E/311/04

Reporting Date : 02/12/2025

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/2419E/311/04	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Sampling Room Water Supply Borewell Water	Analysis End Date:	01/12/2025
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 CaCO3	270.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	63.33	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	58.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.94	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	33.78	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.16	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	32.59	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	465.00	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



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Tantan kumar & Dr. Haragobinda Srichandan




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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2419E/311/04

Reporting Date : 02/12/2025

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/2419E/311/04	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Sampling Room Water Supply Borewell Water	Analysis End Date:	01/12/2025
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 <sub>3</sub>	297.00	mg/L	APHA 24th Edn 2340 C	200	600
13	Turbidity	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	5.42	mg/L	APHA 24th Edn 4500 NO <sub>3</sub> 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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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2419E/311/05

Reporting Date : 02/12/2025

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/2419E/311/05	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Near Dumping Area Water Supply Borewell Water	Analysis End Date:	01/12/2025
Sample Quantity:	6 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>	240.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	56.11	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	52.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.02	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	7.34	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	27.65	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	390.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	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: GGMP/ PN/2419E/311/05

Reporting Date : 02/12/2025

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/2419E/311/05	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Near Dumping Area Water Supply Borewell Water	Analysis End Date:	01/12/2025
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 <sub>3</sub>	270.00	mg/L	APHA 24th Edn 2340 C	200	600
13	Turbidity	2	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	0.84	mg/L	APHA 24th Edn 4500 NO <sub>3</sub> B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As per IS 10500.

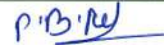
NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit



Reviewed & Authorized by  
Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2419E/311/06

Reporting Date: 02.12.2025

**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/2419E/311/06	Sampling Start Date	: 23.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 24.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 26.11.2025
Sample Location	: Near Sampling Room		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	0.8	m/s	GGMPL/SOP/MP/01

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Tantan Kumar



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Manish Kumawat

Page 1 of 1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2419E/311/07

Reporting Date: 02.12.2025

**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/2419E/311/07	Sampling Start Date	: 23.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 24.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 26.11.2025
Sample Location	: Near Dumping Room		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMP/L/SOP/MP/01
2	Relative Humidity	65.0	%	GGMP/L/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/L/SOP/MP/01
4	Wind Speed	0.8	m/s	GGMP/L/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/2420E/312/01

Reporting Date: 02/12/2025

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/2420E/312/01	Sampling Start Date:	23/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	24/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2025
Sample Description:	Near Pit Office	Analysis start- End Date:	26/11/2025-01/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-65%	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)	35.83	µg/m3	GGMP/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	12.52	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	24.60	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.51	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.60	µg/m3	GGMP/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)	1.07	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)	70.40	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: GGMP/ PN/2420E/312/03

Reporting Date : 02/12/2025

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/2420E/312/03	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Near Pit Office Water Supply Borewell Water	Analysis End Date:	01/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMP/ WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	435.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	113.83	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	142.46	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.13	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	61.97	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.36	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	74.30	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	864.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	12.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	539.00	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/2420E/312/03

Reporting Date : 02/12/2025

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/2420E/312/03	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	Near Pit Office Water Supply Borewell Water	Analysis End Date:	01/12/2025
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	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	7.22	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/2420E/312/04

Reporting Date: 02.12.2025

**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/2420E/312/04	Sampling Start Date	: 23.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 24.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 26.11.2025
Sample Location	: Near Pit Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	0.8	m/s	GGMPL/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2421E/313/01

Reporting Date: 02/12/2025

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/2421E/313/01	Sampling Start Date:	23/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	24/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2025
Sample Description:	North Railway Siding Office	Analysis start- End Date:	26/11/2025-02/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-65%	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)	41.66	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.78	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	22.97	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	17.77	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.82	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)	0.98	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)	81.11	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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/2421E/313/03

Reporting Date : 02/12/2025

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/2421E/313/03	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	North Railway Siding Office Borewell Water	Analysis End Date:	02/12/2025
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 CaCO3	136.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	40.88	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	0.83	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.95	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.63	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	19.74	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	278.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	180.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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

*T H*

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Tantan kumar & Dr. Haragobinda Srichandan



*PB*

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Payal Patel

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Reporting Date : 02/12/2025

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/2421E/313/03	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	North Railway Siding Office Borewell Water	Analysis End Date:	02/12/2025
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	2.05	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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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2421E/313/04

Reporting Date: 02.12.2025

### 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/2421E/313/04	Sampling Start Date	: 23-11-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 24-11-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 26-11-2025
Sample Location	: North Railway Siding Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Temperature	26.0	°C	GGMPL/SOP/MP/01

  
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Gyanvati Shukla



  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2422E/314/01

Reporting Date: 02/12/2025

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/2422E/314/01	Sampling Start Date:	23/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	24/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2025
Sample Description:	South Railway Siding Office	Analysis start- End Date:	26/11/2025-01/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-65%	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)	39.58	µg/m <sup>3</sup>	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO <sub>2</sub> )	14.55	µg/m <sup>3</sup>	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.64	µg/m <sup>3</sup>	IS 5182- Part 6	80
4	Ozone (O <sub>3</sub> )	17.76	µg/m <sup>3</sup>	IS 5182- Part 9	180
5	Ammonia (NH <sub>3</sub> )	15.66	µg/m <sup>3</sup>	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.98	mg/m <sup>3</sup>	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m <sup>3</sup>	Method IO 3.4	1
12	Particulate Matter (PM10)	75.90	µg/m <sup>3</sup>	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

  
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Reporting Date : 02/12/2025

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/2422E/314/03	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	South Railway Siding Office Borewell Water	Analysis End Date:	02/12/2025
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 <sub>3</sub>	126.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	36.87	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	0.49	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	10.69	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.47	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	17.44	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	246.00	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>	136.00	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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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/2422E/314/03	Sampling Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	26/11/2025
Sample Type:	Ground Water	Analysis Start Date:	26/11/2025
Sample Description:	South Railway Siding Office Borewell Water	Analysis End Date:	02/12/2025
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	1.2	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	1.16	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.

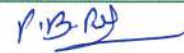
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Reporting Date: 02-12-2025

**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/2422E/314/04  
 Sampling Instrument : Weather Monitoring Station  
 Sample Type : Meteorological Parameter  
 Sample Location : South Railway Siding Office

Sampling Start Date : 23-11-2025  
 Sampling End Date : 24-11-2025  
 Sample Receipt Date : 26-11-2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMP/ SOP/MP/01
2	Relative Humidity	65.0	%	GGMP/ SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/ SOP/MP/01
4	Temperature	26.0	°C	GGMP/ SOP/MP/01

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Page 1 of 1

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