

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2439E/307/01

Reporting Date: 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/01	Sampling Start Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	25/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	27/11/2025
Sample Description:	Near Mine Office	Analysis start- End Date:	27/11/2025-03/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-64%	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)	33.32	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	12.74	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	22.16	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.24	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.24	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)	63.14	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

Reviewed & Authorized by
Tantan Kumar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/2439E/307/02

Reporting Date: 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/02	Sampling Start Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	25/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	27/11/2025
Sample Description:	Near Mine Pit	Analysis start- End Date:	27/11/2025-03/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-64%	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)	34.15	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.73	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.90	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.15	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.66	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)	0.87	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)	65.43	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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Tantan Kumar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/2439E/307/03

Reporting Date: 04/12/2025

M/s Moil Limited
Sitapore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/03	Sampling Start Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	25/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	27/11/2025
Sample Description:	Near Mine Dump	Analysis start- End Date:	27/11/2025-03/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-64%	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)	31.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	12.74	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.46	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.24	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)	0.92	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)	69.62	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2439E/307/04

Reporting Date: 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

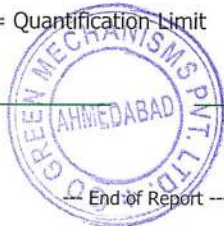
Lab ID:	Lab/PN/2439E/307/04	Sampling Start Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	25/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	27/11/2025
Sample Description:	Near Sitapatore Village	Analysis start- End Date:	27/11/2025-03/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-64%	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)	17.69	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.18	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.15	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	18.51	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)	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)	68.39	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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Reporting Date: 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

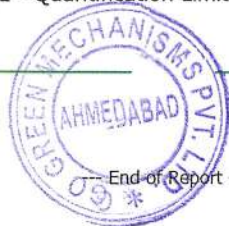
Sampling Instrument : Sound Level Meter
Sample By : Shailesh Pandey

Sampling Date: 24/11/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2439E/3 07/05A	Nr Office Premises	Day Time	dB(A)Leq	IS 4758	60	-
2	Lab/PN/2439E/3 07/05B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	64	-
3	Lab/PN/2439E/3 07/05C	Drill Machine	Day Time	dB(A)Leq	IS 4758	66	-
4	Lab/PN/2439E/3 07/05D	Nr Excavater	Night Time	dB(A)Leq	IS 4758	63	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2439E/307/06

Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/06	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Mine Office Open Dugwell	Analysis End Date:	03/12/2025
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 ₃	232.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	53.70	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	55.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.98	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	6.95	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	21.23	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	396.00	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	264.00	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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Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/06	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Mine Office Open Dugwell	Analysis End Date:	03/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

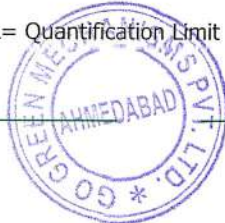
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.0	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	5.02	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	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/2439E/307/07

Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/07	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Sitapatore Village Open Dugwell	Analysis End Date:	03/12/2025
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	296.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	68.93	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	41.98	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	35.96	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.14	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.71	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	436.00	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	320.00	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/2439E/307/07

Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/07	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Sitapatore Village Open Dugwell	Analysis End Date:	03/12/2025
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	5.79	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/2439E/307/08

Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/08	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Mine Premises Borewell Water	Analysis End Date:	03/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

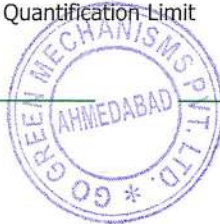
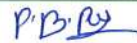
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	304.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	86.57	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	121.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.07	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	47.62	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	39.88	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	640.00	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	412.00	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/2439E/307/08

Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/08	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Mine Premises Borewell Water	Analysis End Date:	03/12/2025
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	5.53	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/2439E/307/09

Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.

Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/09	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Surface Water	Analysis Start Date:	27/11/2025
Sample Description:	S.W of Pit No -3	Analysis End Date:	03/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	224.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	57.71	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	52.48	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	1.06	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	31.10	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.05	-	IS 3025- Part 11	-
9	Sulphate	30.40	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	390.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	272.00	mg/L	APHA 24th Edn 2340 C	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2439E/307/09

Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/09	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Surface Water	Analysis Start Date:	27/11/2025
Sample Description:	S.W of Pit No -3	Analysis End Date:	03/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	2.0	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Total coliform	27	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	14	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	6.05	mg/L	APHA 24th Edn 4500 NO3 B	-

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



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Report Number: GGMPL/PN/2439E/307/10

Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/10	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Drinking Water	Analysis Start Date:	27/11/2025
Sample Description:	Admin Office R.O Water	Analysis End Date:	03/12/2025
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 ₃	216.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	51.30	mg/L	APHA 24th Edition (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	Magnesium as Mg	28.18	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.12	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	19.44	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	348.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	244.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	0.90	NTU	APHA 24th Edition (2130 B)	1	5

AL & PL as per IS 10500

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

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Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/10	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Drinking Water	Analysis Start Date:	27/11/2025
Sample Description:	Admin Office R.O Water	Analysis End Date:	03/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	0.1	0.3
15	Fluoride	1.09	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	3.55	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

T. Kumar

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Tantan kumar & Dr. Haragobinda Srichandan



P. Patel

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2439E/307/11

Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2439E/307/11	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Waste Water	Analysis Start Date:	27/11/2025
Sample Description:	Mine Discharge Water Pit No-6	Analysis End Date:	03/12/2025
Sample Quantity:	4 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.54	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	18.00	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	5.6	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	7.4	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMP/L/SOP/W&WW/46	-

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





Reviewed & Authorized by
Tantan Kumar

Reviewed & Authorized by
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/2439E/307/12

Reporting Date: 04.12.2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2439E/307/12	Sampling Start Date	: 24.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 25.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 27.11.2025
Sample Location	: Near Mine Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01



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 Tantan Kumar





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 Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/2439E/307/13

Reporting Date: 04.12.2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat (M.P) 481449



TCC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2439E/307/13	Sampling Start Date	: 24.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 25.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 27.11.2025
Sample Location	: Near Mine Pit		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGML/SOP/MP/01
2	Relative Humidity	64.0	%	GGML/SOP/MP/01
3	Rainfall	0.0	mm	GGML/SOP/MP/01
4	Wind Speed	1.4	m/s	GGML/SOP/MP/01


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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/2439E/307/14

Reporting Date: 04.12.2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2439E/307/14	Sampling Start Date	: 24.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 25.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 27.11.2025
Sample Location	: Near Mine Dump		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMP/ SOP/MP/01
2	Relative Humidity	64.0	%	GGMP/ SOP/MP/01
3	Rainfall	0.0	mm	GGMP/ SOP/MP/01
4	Wind Speed	1.4	m/s	GGMP/ SOP/MP/01

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Tantan Kumar



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CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/2439E/307/15

Reporting Date: 08.12.2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID	: Lab/PN/2439E/307/15	Sampling Start Date	: 24.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 25.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 27.11.2025
Sample Location	: Near Sitapatore Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01

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Tantan Kumar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/2440E/308/01

Reporting Date: 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2440E/308/01	Sampling Start Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	25/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	27/11/2025
Sample Description:	Haul Road	Analysis start- End Date:	27/11/2025-03/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-64%	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	GGMP/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.57	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.02	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.15	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.66	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)	0.91	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)	69.17	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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CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/2440E/308/03

Reporting Date: 04.12.2025

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site PO.Sukli, Tah. Tirodi Dist Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2440E/308/03	Sampling Start Date	: 24.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 25.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 27.11.2025
Sample Location	: Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGML/SOP/MP/01
2	Relative Humidity	64.0	%	GGML/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGML/SOP/MP/01
4	Wind Speed	1.4	m/s	GGML/SOP/MP/01

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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2440E/308/04

Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2440E/308/04	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Open Dug well Water Supply	Analysis End Date:	03/12/2025
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 ₃	226.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	57.72	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	30.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.78	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	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.43	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	344.00	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	256.00	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: GGMP/ PN/2440E/308/04

Reporting Date : 04/12/2025

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site PO.Sukli, Tah. Tirodi Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2440E/308/04	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Open Dug well Water Supply	Analysis End Date:	03/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMP/ WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.66	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMP/ SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/ SOP/W & WW/46	0.1	0.3
16	Nitrate	3.87	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/2438E/309/01

Reporting Date: 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2438E/309/01	Sampling Start Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	25/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	27/11/2025
Sample Description:	Near Pit No-2	Analysis start- End Date:	27/11/2025-03/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-64%	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)	37.90	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.51	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.02	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.15	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	17.09	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)	79.94	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




Reviewed & Authorized by
Manish Kumawat

End of Report ---

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2438E/309/02

Reporting Date: 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449




SAMPLE DETAILS

Lab ID:	Lab/PN/2438E/309/02	Sampling Start Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	25/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	27/11/2025
Sample Description:	Near Sukli Village	Analysis start- End Date:	27/11/2025-03/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-64%	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)	15.21	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.37	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	17.44	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	18.51	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)	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)	71.84	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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Manish Kumawat

End of Report ---

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2438E/309/03

Reporting Date: 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2438E/309/03	Sampling Start Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	25/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	27/11/2025
Sample Description:	Haul Road	Analysis start- End Date:	27/11/2025-03/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-64%	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)	18.31	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	31.71	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	17.76	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	18.51	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)	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)	76.72	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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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2438E/309/04

Reporting Date: 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN/2438E/309/04	Sampling Start Date:	24/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	25/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	27/11/2025
Sample Description:	Near Pit No-5	Analysis start- End Date:	27/11/2025-03/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-64%	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)	34.15	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.50	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.21	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.50	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.24	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)	68.82	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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--- End of Report ---


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2438E/309/05

Reporting Date: 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Shailesh Pandey

Sampling Date: 24/11/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2438E/3 09/05A	Near Pit No-2	Day Time	dB(A)Leq	IS 4758	62	-
2	Lab/PN/2438E/3 09/05B	Near Sukli Village	Day Time	dB(A)Leq	IS 4758	56	-
3	Lab/PN/2438E/3 09/05C	Haul Road	Day Time	dB(A)Leq	IS 4758	57	-
4	Lab/PN/2438E/3 09/05D	Near Pit No-5	Day Time	dB(A)Leq	IS 4758	63	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2438E/309/06

Reporting Date : 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2438E/309/06	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Sukli Village Borewell	Analysis End Date:	03/12/2025
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	440.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	105.01	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	104.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.96	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	62.69	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.21	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	48.45	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	768.00	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	520.00	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2438E/309/06

Reporting Date : 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2438E/309/06	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Sukli Village Borewell	Analysis End Date:	03/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

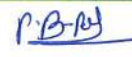
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.0	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	6.64	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	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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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2438E/309/07

Reporting Date : 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2438E/309/07	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Near Pit No-5 Water Supply Borewell	Analysis End Date:	03/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

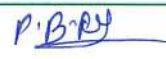
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	444.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	101.00	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	101.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.02	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	64.15	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	46.06	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	752.00	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	516.00	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

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2438E/309/07

Reporting Date : 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2438E/309/07	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Near Pit No-5 Water Supply Borewell	Analysis End Date:	03/12/2025
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	7.12	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/2438E/309/08

Reporting Date : 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2438E/309/08	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Handpump Near Gopi Kishan Camp	Analysis End Date:	03/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

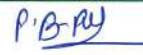
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	196.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	44.88	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	24.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.71	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.78	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.28	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	9.87	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	276.00	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	214.00	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/2438E/309/08

Reporting Date : 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2438E/309/08	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Ground Water	Analysis Start Date:	27/11/2025
Sample Description:	Handpump Near Gopi Kishan Camp	Analysis End Date:	03/12/2025
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	0.85	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	2.82	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/2438E/309/09

Reporting Date : 03/12/2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat
(M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/2438E/309/09	Sampling Date:	25/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	27/11/2025
Sample Type:	Waste Water	Analysis Start Date:	27/11/2025
Sample Description:	Mine Discharge Water	Analysis End Date:	03/12/2025
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	7.43	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	21.00	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)	36.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.7	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	7.5	mg/L	IS 3025- Part 44	-
7	Manganese	1.52	mg/L	GGMPL/SOP/W&WW/46	-

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


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Page No : 1/1

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Report Number: GGMP/L/PN/2438E/309/10

Reporting Date: 03.12.2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID	: Lab/PN/2438E/309/10	Sampling Start Date	: 24.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 25.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 27.11.2025
Sample Location	: Near Pit No-2		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2438E/309/11

Reporting Date: 03.12.2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2438E/309/11	Sampling Start Date	: 24.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 25.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 27.11.2025
Sample Location	: Near Sukli Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/2438E/309/12

Reporting Date: 03.12.2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2438E/309/12	Sampling Start Date	: 24.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 25.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 27.11.2025
Sample Location	: Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	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: GGMP/L/PN/2438E/309/13

Reporting Date: 03.12.2025

M/s Moil Limited

Sukli Manganese Mine L1= 79.550 Ha Site PO.Sukli, Tah. Tirodi Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2438E/309/13	Sampling Start Date	: 24.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 25.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 27.11.2025
Sample Location	: Near Pit No-5		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01


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Gyanvati Shukla




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---End of Report---

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