

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1430E/307/01

Reporting Date: 08/09/2025

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/1430E/307/01	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Mine Office	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-72%	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)	30.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.41	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	19.43	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.13	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.95	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.90	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)	58.64	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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



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Gyanvati Shukla




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1430E/307/02

Reporting Date: 08/09/2025

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/1430E/307/02	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Mine Pit	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-72%	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)	31.66	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.15	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	20.59	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.20	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.13	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)	60.47	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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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1430E/307/03

Reporting Date: 08/09/2025

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/1430E/307/03	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Mine Dump	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-72%	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)	28.74	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	10.43	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	17.27	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	10.60	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.97	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)	56.72	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/1430E/307/04

Reporting Date: 08/09/2025

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/1430E/307/04	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Sitapatore Village	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-72%	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)	33.74	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.24	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	20.47	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.54	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)	0.94	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)	62.10	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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Reporting Date: 08/09/2025

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

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

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

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1430E/3 07/05A	Nr Office Premises	Day Time	dB(A)Leq	IS 4758	60	-
2	Lab/PN/1430E/3 07/05B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	63	-
3	Lab/PN/1430E/3 07/05C	Drill Machine	Day Time	dB(A)Leq	IS 4758	74	-
4	Lab/PN/1430E/3 07/05D	Nr Excavater	Day Time	dB(A)Leq	IS 4758	69	-

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/1430E/307/06

M/s Moil Limited

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

Reporting Date : 08/09/2025



TC-7073

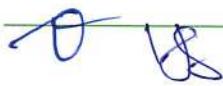
SAMPLE DETAILS

Lab ID:	Lab/PN/1430E/307/06	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Mine Office Open Dugwell	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	230.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	52.10	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	54.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.94	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	7.15	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	20.96	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	388.00	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	260.00	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/1430E/307/06

Reporting Date : 08/09/2025

M/s Moil Limited

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



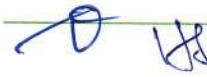
SAMPLE DETAILS

Lab ID:	Lab/PN/1430E/307/06	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Mine Office Open Dugwell	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.79	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.68	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1430E/307/07

M/s Moil Limited

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

Reporting Date : 08/09/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1430E/307/07	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Sitapatore Village Open Dugwell	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

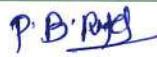
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	250.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	56.11	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	31.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.84	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	34.02	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.24	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	24.27	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	384.00	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	280.00	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/1430E/307/07

M/s Moil Limited

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

Reporting Date : 08/09/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1430E/307/07	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Sitapatore Village Open Dugwell	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.88	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.95	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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P.B. Patel

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1430E/307/08

M/s Moil Limited

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

Reporting Date : 08/09/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1430E/307/08	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Mine Premises Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	444.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	100.20	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	128.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.04	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	60.75	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.07	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	40.82	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	748.00	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
12	Total Hardness as CaCO ₃	500.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1430E/307/08

M/s Moil Limited

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

Reporting Date : 08/09/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1430E/307/08	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Mine Premises Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.89	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	7.32	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/1430E/307/09

M/s Moil Limited

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

Reporting Date : 08/09/2025



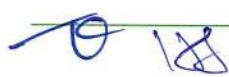
TC-7073

SAMPLE DETAILS

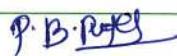
Lab ID:	Lab/PN/1430E/307/09	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Surface Water	Analysis Start Date:	30/08/2025
Sample Description:	Pit No.3	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	215.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	51.30	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	49.98	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	1.08	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	22.36	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.38	-	IS 3025- Part 11	-
9	Sulphate	32.80	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	374.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	16.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	220.00	mg/L	APHA 24th Edn 2340 C	-

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



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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1430E/307/09

M/s Moil Limited

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

Reporting Date : 08/09/2025



TC-7073

SAMPLE DETAILS

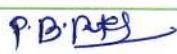
Lab ID:	Lab/PN/1430E/307/09	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Surface Water	Analysis Start Date:	30/08/2025
Sample Description:	Pit No.3	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	2.77	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	Nitrate	5.43	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	22	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	11	MPN/100ml	APHA 9221G 24th Edition	-

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1430E/307/10

M/s Moil Limited

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

Reporting Date : 08/09/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1430E/307/10	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	30/08/2025
Sample Description:	Admin Office Ro Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

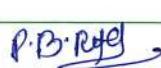
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	195.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	40.08	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	26.49	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	24.30	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.52	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	18.45	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	302.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	200.00	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	0.28	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1430E/307/10

M/s Moil Limited

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

Reporting Date : 08/09/2025



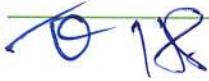
SAMPLE DETAILS

Lab ID:	Lab/PN/1430E/307/10	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	30/08/2025
Sample Description:	Admin Office Ro Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	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	0.74	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.61	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent

AL & PL As Per IS 10500

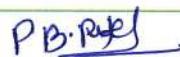
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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1430E/307/11

M/s Moil Limited

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

Reporting Date : 08/09/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1430E/307/11	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Waste Water	Analysis Start Date:	30/08/2025
Sample Description:	Mine Discharge Water Pit no.6	Analysis End Date:	05/09/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.70	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	20.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	28.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.90	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	7.6	mg/L	IS 3025- Part 44	-
7	Manganese	0.26	mg/L	GGMPL/SOP/W&WW/46	-

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



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Gyanvati Shukla




Reviewed & Authorized by
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1430E/307/12

Reporting Date: 08.09.2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

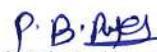
Lab ID	: Lab/PN/1430E/307/12	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Mine Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	72.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.2	m/s	GGMPL/SOP/MP/01



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End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1430E/307/13

Reporting Date: 08.09.2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

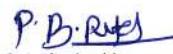
Lab ID	: Lab/PN/1430E/307/13	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Mine Pit		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	72.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.2	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1430E/307/14

Reporting Date: 08.09.2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

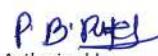
Lab ID	: Lab/PN/1430E/307/14	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Mine Dump		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	72.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.2	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1430E/307/15

Reporting Date: 08.09.2025

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

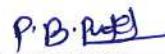
Lab ID	: Lab/PN/1430E/307/15	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Sitapatore Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	72.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.2	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1431E/308/01

Reporting Date: 05/09/2025

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/1431E/308/01	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Haul Road	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-72%	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)	34.16	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.41	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	22.38	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.45	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.94	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)	65.06	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1431E/308/02

Reporting Date: 05/09/2025

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

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

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

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

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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1431E/308/03

M/s Moil Limited

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

Reporting Date : 05/09/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1431E/308/03	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Open Dugwell Water Supply	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

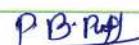
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	210.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	51.30	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	28.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.37	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.36	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	20.56	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	318.00	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
12	Total Hardness as CaCO ₃	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1431E/308/03

M/s Moil Limited

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

Reporting Date : 05/09/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1431E/308/03	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Open Dugwell Water Supply	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.96	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.04	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500

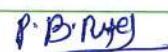
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Reviewed & Authorized by
Tantan Kumar & Dr. Haragobinda Srichandan



-- End of Report --



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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1431E/308/04

Reporting Date: 05.09.2025

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/PN/1431E/308/04	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	72.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.2	m/s	GGMPL/SOP/MP/01

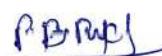


Reviewed & Authorized by

Gyanvati Shukla



----End of Report----



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Payal Patel

Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1432E/309/01

Reporting Date: 06/09/2025

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/1432E/309/01	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Pit No-2	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-72%	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)	35.40	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.40	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.39	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.77	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.92	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)	65.58	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 : GGMPL/PN/1432E/309/02

Reporting Date: 06/09/2025

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/1432E/309/02	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Sukli Village	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-72%	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)	34.57	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	11.91	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.42	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.96	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	62.89	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1432E/309/03

M/s Moil Limited

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

Reporting Date: 06/09/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1432E/309/03	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Haul Road	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-72%	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)	38.32	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.66	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.84	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.88	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	9.89	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.95	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	67.56	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1432E/309/04

M/s Moil Limited

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

Reporting Date: 06/09/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1432E/309/04	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Pit No-5	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-27°C / Humidity-72%	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)	12.22	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.64	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.80	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.98	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)	68.33	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1432E/309/05

Reporting Date: 06/09/2025

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

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

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

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1432E/3 09/05A	Near Pit No-2	Day Time	dB(A)Leq	IS 4758	65	-
2	Lab/PN/1432E/3 09/05B	Near Sukli Village	Day Time	dB(A)Leq	IS 4758	62	-
3	Lab/PN/1432E/3 09/05C	Haul Road	Day Time	dB(A)Leq	IS 4758	64	-
4	Lab/PN/1432E/3 09/05D	Near Pit No-5	Day Time	dB(A)Leq	IS 4758	61	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1432E/309/06

M/s Moil Limited

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

Reporting Date : 06/09/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1432E/309/06	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Sukli Village Borewell	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	436.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	100.20	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	102.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.06	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	60.75	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.18	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	44.73	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	742.00	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	500.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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

Reviewed & Authorized by
Tantan Kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1432E/309/06

M/s Moil Limited

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

Reporting Date : 06/09/2025



TC-7073

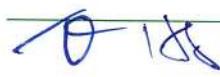
SAMPLE DETAILS

Lab ID:	Lab/PN/1432E/309/06	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Sukli Village Borewell	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.0	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	6.45	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

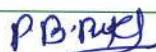
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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End of Report ---



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1432E/309/07

Reporting Date : 06/09/2025

M/s Moil Limited

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



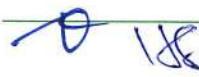
SAMPLE DETAILS

Lab ID:	Lab/PN/1432E/309/07	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Near Pit No-5 Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

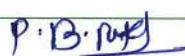
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	444.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	104.20	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	100.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.02	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	63.18	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	46.13	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	756.00	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	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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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1432E/309/07

M/s Moil Limited

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

Reporting Date : 06/09/2025



TC-7073

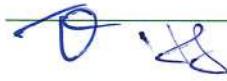
SAMPLE DETAILS

Lab ID:	Lab/PN/1432E/309/07	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Near Pit No-5 Water Supply Borewell Water	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	7.03	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

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



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Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1432E/309/08

Reporting Date : 06/09/2025

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/1432E/309/08	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Handpump Near Gopikishan Camp	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	190.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	44.08	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	23.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.66	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	7.28	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	9.92	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	264.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	210.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1432E/309/08

M/s Moil Limited

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

Reporting Date : 06/09/2025



TC-7073

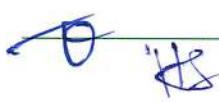
SAMPLE DETAILS

Lab ID:	Lab/PN/1432E/309/08	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Handpump Near Gopikishan Camp	Analysis End Date:	05/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.0	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.42	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

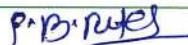
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1432E/309/09

M/s Moil Limited

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

Reporting Date : 06/09/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1432E/309/09	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Waste Water	Analysis Start Date:	30/08/2025
Sample Description:	Mine Discharge Water	Analysis End Date:	05/09/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.37	-	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)	28.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.8	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	6.7	mg/L	IS 3025- Part 44	-
7	Manganese	0.71	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1432E/309/10

Reporting Date: 06.09.2025

M/s Moil Limited

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



SAMPLE DETAILS

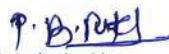
Lab ID	: Lab/PN/1432E/309/10	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Pit No-2		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	72.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.2	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1432E/309/11

Reporting Date: 06.09.2025

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/1432E/309/11	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Sukli Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	72.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.2	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1432E/309/12

Reporting Date: 06.09.2025

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/1432E/309/12	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	72.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.2	m/s	GGMPL/SOP/MP/01



Reviewed & Authorized by

Gyanvati Shukla




Reviewed & Authorized by

Payal Patel

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Report Number: GGMPL/PN/1432E/309/13

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M/s Moil Limited

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



SAMPLE DETAILS

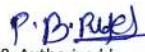
Lab ID	: Lab/PN/1432E/309/13	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Pit No-5		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	72.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.2	m/s	GGMPL/SOP/MP/01



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----End of Report----

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