

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3974D/77/01

Reporting Date: 11/03/2025

M/s Moil Limited
Sitapore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/3974D/77/01	Sampling Start Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	02/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2025
Sample Description:	Near Mine Office	Analysis start- End Date:	05/03/2025-11/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-48%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.01	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.44	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	26.74	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.67	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.05	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per NAAQ Standards.

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

Reviewed & Authorized by
Tantan Kumar



Reviewed & Authorized by
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3974D/77/02

Reporting Date: 11/03/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/3974D/77/02	Sampling Start Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	02/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2025
Sample Description:	Near Mine Pit	Analysis start- End Date:	05/03/2025-11/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-48%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	72.63	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.26	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.60	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.88	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per NAAQ Standards.

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Tantan Kumar



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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3974D/77/03

Reporting Date: 11/03/2025

M/s Moil Limited

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



SAMPLE DETAILS

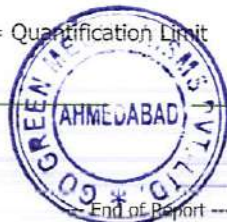
Lab ID:	Lab/PN/3974D/77/03	Sampling Start Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	02/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2025
Sample Description:	Near Mine Dump	Analysis start- End Date:	05/03/2025-11/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-48%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	65.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.26	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.50	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.27	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per NAAQ Standards.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3974D/77/04

Reporting Date: 11/03/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3974D/77/04	Sampling Start Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	02/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2025
Sample Description:	Near Sitapatore Village	Analysis start- End Date:	05/03/2025-11/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-48%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.48	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	14.63	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	34.82	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.29	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.05	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.99	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per NAAQ Standards.

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

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Page No : 1/1

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Reporting Date: 11/03/2025

M/s Moil Limited
Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Hasan Ali

Sampling Date: 01/03/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3974D/7 7/05A	Nr Office Premises	Day Time	dB(A)Leq	IS 4758	59.1	-
2	Lab/PN/3974D/7 7/05B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	69.8	-
3	Lab/PN/3974D/7 7/05C	Drill Machine	Day Time	dB(A)Leq	IS 4758	79.7	-
4	Lab/PN/3974D/7 7/05D	Nr Excavater	Day Time	dB(A)Leq	IS 4758	68.1	-

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3974D/77/06

Reporting Date : 11/03/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/3974D/77/06	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	04/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	Mine Office Open Dug Well	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	195.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	52.90	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	45.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.71	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.38	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.58	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	40.39	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	380.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
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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Payal Patel

Page No : 1/2

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M/s Moil Limited

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

Reporting Date : 11/03/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3974D/77/06	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	04/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	Mine Office Open Dug Well	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.13	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

(Signature)

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Tantan kumar & Dr. Haragobinda Srichandan



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(Signature)

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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3974D/77/07

Reporting Date : 11/03/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3974D/77/07	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	04/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	Sitapatore Village Open Dug Well	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	130.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	39.27	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	34.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.36	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.17	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.70	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	29.30	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	255.00	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	144.00	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
Iantan 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/3974D/77/07

Reporting Date : 11/03/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/3974D/77/07	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	04/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	Sitapatore Village Open Dug Well	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.70	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

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

Reviewed & Authorized by
Iantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3974D/77/08

M/s Moil Limited

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

Reporting Date : 11/03/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3974D/77/08	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	04/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	G.W of Mine premises Borewell Water	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

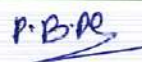
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	134.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	36.47	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	39.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.47	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.90	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.51	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	17.82	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	250.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	140.00	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/3974D/77/08

Reporting Date : 11/03/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/3974D/77/08	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	04/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	G.W of Mine premises Borewell Water	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.57	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

[Signature]

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Tantan kumar & Dr. Haragobinda Srichandan



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3974D/77/09

Reporting Date : 11/03/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/3974D/77/09	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	04/03/2025
Sample Type:	Waste Water	Analysis Start Date:	05/03/2025
Sample Description:	Mine Discharge Water	Analysis End Date:	11/03/2025
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.52	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	26.00	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)	60.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	14.7	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	-

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



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Tantan Kumar



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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3974D/77/10

Reporting Date: 11-03-2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/3974D/77/10	Sampling Start Date	: 01-03-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04-03-2025
Sample Location	: Near Mine Office		

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

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Tarun Kumar



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Manish Kumar

---End of Report---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3974D/77/11

Reporting Date: 11-03-2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/3974D/77/11	Sampling Start Date	: 01-03-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04-03-2025
Sample Location	: Near Mine Pit		

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

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Tantan Kumar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3974D/77/12

Reporting Date: 11-03-2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/3974D/77/12	Sampling Start Date	: 01-03-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04-03-2025
Sample Location	: Near Mine Dump		

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3974D/77/13

Reporting Date: 11-03-2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/3974D/77/13	Sampling Start Date	: 01-03-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02-03-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04-03-2025
Sample Location	: Near Sitapatore Village		

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3975D/77A/01

Reporting Date: 11/03/2025

M/s Moil Limited

Sitapature Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3975D/77A/01	Sampling Start Date:	01/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	02/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2025
Sample Description:	Near Haul Road	Analysis start- End Date:	05/03/2025-11/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-48%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.22	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.85	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.26	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.33	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.99	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

Reviewed & Authorized by
Gyanvati Shukla



Reviewed & Authorized by
Payal Patel

--- End of Report ---

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3975D/77A/03

Reporting Date : 11/03/2025

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3975D/77A/03	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	04/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	G.W of Open Dug Well Water Supply	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	178.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	48.49	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	88.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.41	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	30.13	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.60	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	37.12	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	380.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	245.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500

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



Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan




Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3975D/77A/03

Reporting Date : 11/03/2025

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/3975D/77A/03	Sampling Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	04/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	G.W of Open Dug Well Water Supply	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.76	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500

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



Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3983D/78/01

Reporting Date: 12/03/2025

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3983D/78/01	Sampling Start Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	03/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	05/03/2025
Sample Description:	Near Pit No-2	Analysis start- End Date:	05/03/2025-11/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.79	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.16	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.91	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.11	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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Tantan Kumar



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3983D/78/02

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date: 11/03/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3983D/78/02	Sampling Start Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	03/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	05/03/2025
Sample Description:	Near Sukali Village	Analysis start- End Date:	05/03/2025-11/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	66.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.83	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	14.06	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	22.29	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.91	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.72	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.99	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3983D/78/03

Reporting Date: 11/03/2025

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3983D/78/03	Sampling Start Date:	02/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	03/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	05/03/2025
Sample Description:	Near Haul Road	Analysis start- End Date:	05/03/2025-11/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-43%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	74.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	19.28	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.58	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.60	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.89	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3983D/78/04

Reporting Date: 11/03/2025

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

02/03/2025

Sample By Hasanali Roshanali Sunasara

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3983D/78/04A	Near Pit No.2	Day Time	dB(A)Leq	IS 4758	61.4	-
2	Lab/PN/3983D/78/04B	Near Sukali Village	Day Time	dB(A)Leq	IS 4758	63.7	-
3	Lab/PN/3983D/78/04C	Haul Road	Day Time	dB(A)Leq	IS 4758	59.8	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3983D/78/05

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 11/03/2025



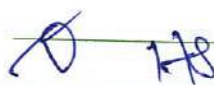
SAMPLE DETAILS

Lab ID:	Lab/PN/3983D/78/05	Sampling Date:	03/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	05/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	Sukali Village Borewell	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	161.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	53.71	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	0.75	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.64	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.56	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	15.44	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	254.00	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	186.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3983D/78/05

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 11/03/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3983D/78/05	Sampling Date:	03/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	05/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	Sukali Village Borewell	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.75	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/3983D/78/06

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 11/03/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3983D/78/06	Sampling Date:	03/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	05/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	G.W of Near Pit No-5 water supply	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	79.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	25.65	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	62.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.61	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.17	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.36	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.57	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	248.0	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	147.0	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/3983D/78/06

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 11/03/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3983D/78/06	Sampling Date:	03/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	05/03/2025
Sample Type:	Ground Water	Analysis Start Date:	05/03/2025
Sample Description:	G.W of Near Pit No-5 water supply	Analysis End Date:	11/03/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.82	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/3983D/78/07

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 11/03/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3983D/78/07	Sampling Date:	03/03/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	05/03/2025
Sample Type:	Waste Water	Analysis Start Date:	05/03/2025
Sample Description:	Mine Discharge Water	Analysis End Date:	11/03/2025
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.46	-	IS 3025- Part 11	6.5 To 9.0
2	Total Suspended Solids (TSS)	28.00	mg/L	APHA 24th Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand (COD)	84.00	mg/L	APHA 24th Edn 5220 B	250
5	Dissolved Oxygen	4.40	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	23.0	mg/L	IS 3025- Part 44	30
7	Manganese	0.57	mg/L	GGMPL/SOP/W&WW/46	-

Norms As Per CTO

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3983D/78/08

Reporting Date: 12.03.2025

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/3983D/78/08	Sampling Start Date	: 02.03.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 03.03.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 05.03.2025
Sample Location	: Near Pit No-2		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.94	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	31.0	°C	GGMPL/SOP/MP/01

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Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3983D/78/09

Reporting Date: 12.03.2025

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/3983D/78/09	Sampling Start Date	: 02.03.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 03.03.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 05.03.2025
Sample Location	: Near Sukali Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.94	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	31.0	°C	GGMPL/SOP/MP/01

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Report Number: GGMP/LPN/3983D/78/10

Reporting Date: 12.03.2025

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID	: Lab/PN/3983D/78/10	Sampling Start Date	: 02.03.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 03.03.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 05.03.2025
Sample Location	: Near Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.94	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	43.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	31.0	°C	GGMPL/SOP/MP/01



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Tantan Kumar




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