

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3854D/97I/01

Reporting Date: 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3854D/97I/01	Sampling Start Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	19/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	21/02/2025
Sample Description:	Near Haul Road	Analysis start- End Date:	21/02/2025-27/02/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-59%	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)	72.72	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.57	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.57	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	32.03	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.98	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.44	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)	1.04	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



--- End of Report ---

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3854D/97I/02

Reporting Date: 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3854D/97I/02	Sampling Start Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	19/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	21/02/2025
Sample Description:	Near Electric Substation	Analysis start- End Date:	21/02/2025-27/02/2025
Env. Cond.-Sampling:	Temp-33°C/ Humidity-60%	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)	77.04	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	45.82	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	22.69	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	28.84	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.52	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)	1.05	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.

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Gyanvati Shukla



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3854D/97I/03

Reporting Date: 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3854D/97I/03	Sampling Start Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	19/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	21/02/2025
Sample Description:	Near Staff Colony	Analysis start- End Date:	21/02/2025-27/02/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-57%	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)	70.92	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.03	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	30.92	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.82	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	20.83	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)	1.04	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.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3854D/97I/04

Reporting Date: 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3854D/97I/04	Sampling Start Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	19/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	21/02/2025
Sample Description:	Near Hospital	Analysis start- End Date:	21/02/2025-27/02/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-59%	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)	69.65	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.13	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	29.53	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.68	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.81	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 National Ambient Air Quality Standards.

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

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Report Number: GGMPL/PN/3854D/97I/05

Reporting Date: 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

18/02/2025

Sample By Hasanali Roshanali Sunasara

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3854D/97I/05A	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	62.5	-
2	Lab/PN/3854D/97I/05B	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	63.9	-
3	Lab/PN/3854D/97I/05C	Near Haul Road	Day Time	dB(A)Leq	IS 4758	64.3	-
4	Lab/PN/3854D/97I/05D	Near Jack Hammer Drill	Day Time	dB(A)Leq	IS 4758	65.2	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3854D/97I/06

Reporting Date : 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3854D/97I/06	Sampling Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	21/02/2025
Sample Type:	Ground Water	Analysis Start Date:	21/02/2025
Sample Description:	Nr Hanuman Mandir well	Analysis End Date:	27/02/2025
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	128.00	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	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	0.75	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.71	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.68	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	34.84	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	282.00	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	175.00	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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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3854D/971/06

Reporting Date : 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3854D/971/06	Sampling Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	21/02/2025
Sample Type:	Ground Water	Analysis Start Date:	21/02/2025
Sample Description:	Nr Hanuman Mandir well	Analysis End Date:	27/02/2025
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	2.39	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: GGMP/L/PN/3854D/97I/07

Reporting Date : 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3854D/97I/07	Sampling Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	21/02/2025
Sample Type:	Waste Water	Analysis Start Date:	21/02/2025
Sample Description:	STP Inlet	Analysis End Date:	27/02/2025
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	7.78	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	140.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	3.67	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	160.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	3.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	52.00	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3854D/97I/08

Reporting Date : 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3854D/97I/08	Sampling Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	21/02/2025
Sample Type:	Waste Water	Analysis Start Date:	21/02/2025
Sample Description:	STP Outlet	Analysis End Date:	27/02/2025
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	7.71	-	IS 3025- Part 11	NS
2	Total Suspended Solids (TSS)	44.00	mg/L	APHA 24th Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand (COD)	40.00	mg/L	APHA 24th Edn 5220 B	NS
5	Dissolved Oxygen	5.50	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	12	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	NS

Norms As Per CTO

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

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Gyanvati Shukla



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3854D/97I/09

Reporting Date : 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)




SAMPLE DETAILS

Lab ID:	Lab/PN/3854D/97I/09	Sampling Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	21/02/2025
Sample Type:	Waste Water	Analysis Start Date:	21/02/2025
Sample Description:	ETP Inlet	Analysis End Date:	27/02/2025
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	7.38	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	108.00	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)	116.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	30	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3854D/97I/10

Reporting Date : 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3854D/97I/10	Sampling Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	21/02/2025
Sample Type:	Waste Water	Analysis Start Date:	21/02/2025
Sample Description:	ETP outlet	Analysis End Date:	27/02/2025
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	7.56	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids (TSS)	20.00	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)	36.00	mg/L	APHA 24th Edn 5220 B	250
5	Dissolved Oxygen	5.10	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	8.80	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	NS

Norms As Per CTO.

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/3854D/97I/11

Reporting Date : 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur
(M.S)




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3854D/97I/11	Sampling Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	21/02/2025
Sample Type:	Waste Water	Analysis Start Date:	21/02/2025
Sample Description:	Mine Seepage Underground water	Analysis End Date:	27/02/2025
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	7.68	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	35.00	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	APIA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	16	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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CERTIFICATE OF ANALYSIS

Report Number: GGMP/LN/3854D/97/13

Reporting Date: 28-02-2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID	: Lab/PN/3854D/971/13	Sampling Start Date	: 18-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 19-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 21-02-2025
Sample Location	: Near Electric Substation		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.56	m/s	GGMP/LN/SOP/MP/01
2	Relative Humidity	59.0	%	GGMP/LN/SOP/MP/01
3	Rainfall	0.0	mm	GGMP/LN/SOP/MP/01
4	Temperature	32.0	°C	GGMP/LN/SOP/MP/01

Wind Direction= W

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3854D/97/12

Reporting Date: 28-02-2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/3854D/97I/12	Sampling Start Date	: 18-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 19-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 21-02-2025
Sample Location	: Near Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.56	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	59.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	32.0	°C	GGMPL/SOP/MP/01

Wind Direction= W

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3854D/97/14

Reporting Date: 28-02-2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID	: Lab/PN/3854D/97I/14	Sampling Start Date	: 18-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 19-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 21-02-2025
Sample Location	: Near Staff Colony		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.56	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	59.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	32.0	°C	GGMPL/SOP/MP/01

Wind Direction= W



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3854D/97/15

Reporting Date: 28-02-2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha Tah- Parseoni Dist. Nagpur (M.S)



IC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/3854D/97/15	Sampling Start Date	: 18-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 19-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 21-02-2025
Sample Location	: Near Hospital		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.56	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	59.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	32.0	°C	GGMPL/SOP/MP/01

Wind Direction= W

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3855D/79J/01

Reporting Date: 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3855D/79J/01	Sampling Start Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	19/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	21/02/2025
Sample Description:	Near OCF	Analysis start- End Date:	21/02/2025-27/02/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-44%	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)	66.87	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.74	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.27	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.26	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.27	µg/m3	GGMPL/SOP/AA/62	100
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)	1.03	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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3855D/79J/02

Reporting Date: 28/02/2025

M/s Moil Limited
Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur
(M.S)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Hasanali Roshanali Sunasara

Sampling Date: 18/02/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3855D/79J/02	Near OCF	Day Time	dB(A)Leq	IS 4758	59.8	-

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

Reviewed & Authorized by
Gyanvati Shukla



Reviewed & Authorized by
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3855D/791/03

Reporting Date : 28/02/2025

M/s Moil Limited
Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3855D/791/03	Sampling Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	21/02/2025
Sample Type:	Ground Water	Analysis Start Date:	21/02/2025
Sample Description:	OCF Borewell	Analysis End Date:	27/02/2025
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	226.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	62.52	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	35.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.26	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	7.59	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.21	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	373.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	256.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

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

Reviewed & Authorized by
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/3855D/79J/03

Reporting Date : 28/02/2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur
(M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3855D/79J/03	Sampling Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	21/02/2025
Sample Type:	Ground Water	Analysis Start Date:	21/02/2025
Sample Description:	OCF Borewell	Analysis End Date:	27/02/2025
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	1.47	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

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

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Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3855D/793/04

Reporting Date: 28.01.2025

M/s Moil Limited

Beldongri Manganese Mines(M.S) L2=12.99 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID	: Lab/PN/3855D/793/04	Sampling Start Date	: 18-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 19-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 21-02-2025
Sample Location	: Near OCF		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.39	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	44.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	32.0	°C	GGMPL/SOP/MP/01

Wind Direction= E



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---End of Report---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3868D/79K/01

Reporting Date: 03/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3868D/79K/01	Sampling Start Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	20/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/02/2025
Sample Description:	Bankuri Road	Analysis start- End Date:	24/02/2025-01/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-42%	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)	76.29	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	44.57	µg/m ³	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO ₂)	20.05	µg/m ³	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.25	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	24.89	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	16.67	µg/m ³	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m ³	Method IO 3.4	1

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/3868D/79K/02

Reporting Date: 03/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3868D/79K/02	Sampling Start Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	20/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/02/2025
Sample Description:	Beldongri Road	Analysis start- End Date:	24/02/2025-01/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-42%	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)	77.98	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.57	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	14.59	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	28.69	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.44	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.66	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)	1.05	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

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Report Number : GGMPL/PN/3868D/79K/03

Reporting Date: 03/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3868D/79K/03	Sampling Start Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	20/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/02/2025
Sample Description:	Near Satak Road	Analysis start- End Date:	24/02/2025-01/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-42%	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)	78.81	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	45.41	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	19.91	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	29.72	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	21.51	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)	1.12	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.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3868D/79K/04

Reporting Date: 03/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3868D/79K/04	Sampling Start Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	20/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/02/2025
Sample Description:	Near Pit No. 2	Analysis start- End Date:	24/02/2025-01/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-42%	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)	75.01	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.07	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.80	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	26.18	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	21.82	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)	1.06	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 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/3868D/79K/05

Reporting Date: 03/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

19/02/2025

Sample By Hasanali Roshanali Sunasara

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3868D/7 9K/05A	Bankuri Road	Day Time	dB(A)Leq	IS 4758	54.2	-
2	Lab/PN/3868D/7 9K/05B	Beldongri Road	Day Time	dB(A)Leq	IS 4758	55.6	-
3	Lab/PN/3868D/7 9K/05C	Near Satak Road	Day Time	dB(A)Leq	IS 4758	53.9	-
4	Lab/PN/3868D/7 9K/05D	Near Pit No. 2	Day Time	dB(A)Leq	IS 4758	56.6	-

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/3868D/79K/06

Reporting Date : 03/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3868D/79K/06	Sampling Date:	20/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	22/02/2025
Sample Type:	Ground Water	Analysis Start Date:	24/02/2025
Sample Description:	Mine Borewell	Analysis End Date:	01/03/2025
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	160.00	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	58.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.73	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	26.73	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.66	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.59	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	311.00	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	170.00	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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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3868D/79K/06

Reporting Date : 03/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3868D/79K/06	Sampling Date:	20/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	22/02/2025
Sample Type:	Ground Water	Analysis Start Date:	24/02/2025
Sample Description:	Mine Borewell	Analysis End Date:	01/03/2025
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	1.0	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.06	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

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

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Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3868D/79K/07

Reporting Date : 03/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)




SAMPLE DETAILS

Lab ID:	Lab/PN/3868D/79K/07	Sampling Date:	20/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	22/02/2025
Sample Type:	Waste Water	Analysis Start Date:	24/02/2025
Sample Description:	Mine Pit No. 2	Analysis End Date:	01/03/2025
Sample Quantity:	5 L	Sampling Method:	GGMP/L/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.68	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	30.00	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)	100.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	30	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMP/L/SOP/W&WW/46	-

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3868D/79K/08

Reporting Date : 03/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

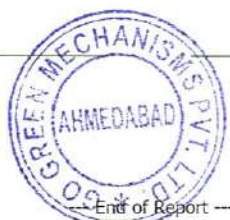
SAMPLE DETAILS

Lab ID:	Lab/PN/3868D/79K/08	Sampling Date:	20/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	22/02/2025
Sample Type:	Waste Water	Analysis Start Date:	24/02/2025
Sample Description:	Mine Discharge Water	Analysis End Date:	01/03/2025
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)	28.00	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	4.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	19	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3868D/79K/09

Reporting Date: 04-03-2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID	: Lab/PN/3868D/79K/09	Sampling Start Date	: 19-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22-02-2025
Sample Location	: Bankuri Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.39	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	42.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	31.0	°C	GGMPL/SOP/MP/01

Wind Direction= E



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3868D/79K/10

Reporting Date: 04-03-2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/3868D/79K/10	Sampling Start Date	: 19-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22-02-2025
Sample Location	: Beldongri Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.39	m/s	GGMP/L/SOP/MP/01
2	Relative Humidity	42.0	%	GGMP/L/SOP/MP/01
3	Rainfall	0.0	mm	GGMP/L/SOP/MP/01
4	Temperature	31.0	°C	GGMP/L/SOP/MP/01

Wind Direction= E



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/LN/3868D/79K/11

Reporting Date: 04-03-2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



EC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/3868D/79K/11	Sampling Start Date	: 19-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22-02-2025
Sample Location	: Near Satak Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.39	m/s	GGMP/LN/SOP/MP/01
2	Relative Humidity	42.0	%	GGMP/LN/SOP/MP/01
3	Rainfall	0.0	mm	GGMP/LN/SOP/MP/01
4	Temperature	31.0	°C	GGMP/LN/SOP/MP/01

Wind Direction= E



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3868D/79K/12

Reporting Date: 04-03-2025

M/s Moil Limited

Satak Manganese Mines(M.S) L1=8.68 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/3868D/79K/12	Sampling Start Date	: 19-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22-02-2025
Sample Location	: Near Pit No. 2		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.39	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	42.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	31.0	°C	GGMPL/SOP/MP/01

Wind Direction= E

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---End of Report---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3869D/79L/01

Reporting Date: 04/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3869D/79L/01	Sampling Start Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	20/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/02/2025
Sample Description:	Near Mine Pit	Analysis start- End Date:	24/02/2025-03/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-58%	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)	78.97	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.82	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.37	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	20.05	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.44	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)	1.04	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

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3869D/79L/02

Reporting Date: 04/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3869D/79L/02	Sampling Start Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	20/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/02/2025
Sample Description:	Near East Boundary Wall	Analysis start- End Date:	24/02/2025-03/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-58%	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)	79.13	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.07	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	19.22	µg/m3	IS 5182 Part 2	80
4	Oxides of Nitrogen	21.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	20.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.44	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)	1.05	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

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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3869D/79L/03

Reporting Date: 04/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3869D/79L/03	Sampling Start Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	20/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/02/2025
Sample Description:	Near West Boundry Wall	Analysis start- End Date:	24/02/2025-03/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-58%	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)	67.77	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.15	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	14.82	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	20.97	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.66	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 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/3869D/79L/04

Reporting Date: 04/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3869D/79L/04	Sampling Start Date:	19/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	20/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/02/2025
Sample Description:	Near South Boundry Wall	Analysis start- End Date:	24/02/2025-03/03/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-58%	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)	70.29	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.07	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	19.31	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.82	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.66	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3869D/79L/05

Reporting Date: 04/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Hasanali Roshanali Sunasara

Sampling Date:

19/02/2025

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3869D/7 9L/05A	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	64.1	-
2	Lab/PN/3869D/7 9L/05B	Nr. Este Boundry Wall	Day Time	dB(A)Leq	IS 4758	59.3	-
3	Lab/PN/3869D/7 9L/05C	Nr.West Boundry Wall	Day Time	dB(A)Leq	IS 4758	56.7	-
4	Lab/PN/3869D/7 9L/05D	Nr.South Boundry Wall	Day Time	dB(A)Leq	IS 4758	58.6	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3869D/79L/06

Reporting Date : 04/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3869D/79L/06	Sampling Date:	20/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	22/02/2025
Sample Type:	Ground Water	Analysis Start Date:	24/02/2025
Sample Description:	Hiwra Village Borewell	Analysis End Date:	03/03/2025
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	145.00	mg/L	API IA 24th Edn 2320 B	200	600
2	Calcium as Ca	60.12	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	93.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.22	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	29.16	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.62	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	42.57	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	387.00	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	270.00	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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Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



P.B.R.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3869D/79L/06

Reporting Date : 04/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3869D/79L/06	Sampling Date:	20/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	22/02/2025
Sample Type:	Ground Water	Analysis Start Date:	24/02/2025
Sample Description:	Hiwra Village Borewell	Analysis End Date:	03/03/2025
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	4.18	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/3869D/79L/07

Reporting Date : 04/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3869D/79L/07	Sampling Date:	20/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	22/02/2025
Sample Type:	Ground Water	Analysis Start Date:	24/02/2025
Sample Description:	Bankuri Village Borewell	Analysis End Date:	03/03/2025
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	140.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	54.10	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	86.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.30	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	28.18	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.45	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	33.16	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	364.00	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	251.00	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/3869D/79L/07

Reporting Date : 04/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/3869D/79L/07	Sampling Date:	20/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	22/02/2025
Sample Type:	Ground Water	Analysis Start Date:	24/02/2025
Sample Description:	Bankuri Village Borewell	Analysis End Date:	03/03/2025
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	2.93	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: GGMP/LN/3869D/79L/08

Reporting Date : 04/03/2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)




SAMPLE DETAILS

Lab ID:	Lab/PN/3869D/79L/08	Sampling Date:	20/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	22/02/2025
Sample Type:	Waste Water	Analysis Start Date:	24/02/2025
Sample Description:	Mine Discharge Water	Analysis End Date:	03/03/2025
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	7.68	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	17.00	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)	88.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	27	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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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3869D/79L/09

Reporting Date: 04.03.2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID	: Lab/PN/3869D/79L/09	Sampling Start Date	: 19-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22-02-2025
Sample Location	: Near Mine Pit		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	58.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	31.0	°C	GGMPL/SOP/MP/01

Wind Direction= NE


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---End of Report---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3869D/79L/10

Reporting Date: 04.03.2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID	: Lab/PN/3869D/79L/10	Sampling Start Date	: 19-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22-02-2025
Sample Location	: Near East Boundary Wall		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	58.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	31.0	°C	GGMPL/SOP/MP/01

Wind Direction= NE

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----End of Report----

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3869D/79L/12

Reporting Date: 04.03.2025

M/s Moil Limited

Satak Manganese Mines(M.S) L2=16.84 Ha Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID : Lab/PN/3869D/79L/12
Sampling Instrument : Weather Monitoring Station
Sample Type : Meteorological Parameter
Sample Location : Near South Boundary Wall

Sampling Start Date : 19-02-2025
Sampling End Date : 20-02-2025
Sample Receipt Date : 22-02-2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	58.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	31.0	°C	GGMPL/SOP/MP/01

Wind Direction=N E



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