

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3837D/93M/01

Reporting Date: 27/02/2025

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)




### SAMPLE DETAILS

Lab ID:	Lab/PN/3837D/93M/01	Sampling Start Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/02/2025
Sample Description:	Near Administrative Building	Analysis start- End Date:	20/02/2025-25/02/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-45%	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)	70.18	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.40	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.88	µg/m3	IS 5182 Part 2	80
4	Oxides of Nitrogen	29.96	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.60	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)	1.09	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 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/3837D/93M/02

Reporting Date: 27/02/2025

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3837D/93M/02	Sampling Start Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/02/2025
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	20/02/2025-25/02/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-45%	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)	69.29	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.99	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.20	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	31.75	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)	1.08	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/3837D/93M/03

Reporting Date: 27/02/2025

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3837D/93M/03	Sampling Start Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/02/2025
Sample Description:	Near SDU Plant	Analysis start- End Date:	20/02/2025-25/02/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-45%	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)	72.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.65	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.07	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	29.25	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.82	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	22.22	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 National Ambient Air Quality Standards.

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3837D/93M/04

Reporting Date: 27/02/2025

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3837D/93M/04	Sampling Start Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/02/2025
Sample Description:	Near Compressor Room	Analysis start- End Date:	20/02/2025-25/02/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-45%	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)	68.97	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.15	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.30	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)	1.07	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.

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Reporting Date: 27/02/2025

M/s Moil Limited  
Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

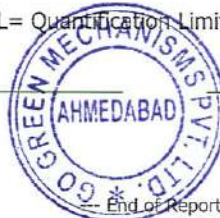
Sampling Instrument : Sound Level Meter  
Sample By Hasanali Roshanali Sunasara

Sampling Date: 17/02/2025  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3837D/9 3M/05A	Near ventilation	Day Time	dB(A)Leq	IS 4758	63.2	-
2	Lab/PN/3837D/9 3M/05B	Near Vertical Shaft-1	Day Time	dB(A)Leq	IS 4758	61.4	-
3	Lab/PN/3837D/9 3M/05C	Near DSU Plant	Day Time	dB(A)Leq	IS 4758	65.6	-
4	Lab/PN/3837D/9 3M/05D	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	66.1	-

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3837D/93M/06

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/02/2025



### SAMPLE DETAILS

Lab ID:	Lab/PN/3837D/93M/06	Sampling Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	20/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Administrative Building Bore well	Analysis End Date:	25/02/2025
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	135.00	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	77.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.36	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.66	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	29.20	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	335.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	219.00	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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Reporting Date : 27/02/2025

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3837D/93M/06	Sampling Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	20/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Administrative Building Bore well	Analysis End Date:	25/02/2025
Sample Quantity:	3 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	1.53	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3837D/93M/07

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/02/2025



### SAMPLE DETAILS

Lab ID:	Lab/PN/3837D/93M/07	Sampling Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	20/02/2025
Sample Type:	Waste Water	Analysis Start Date:	20/02/2025
Sample Description:	Mine Seepage Water Vetical Shaft	Analysis End Date:	25/02/2025
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	7.92	-	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)	56.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	16.67	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: GGMP/L/PN/3837D/93M/08

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/02/2025




### SAMPLE DETAILS

Lab ID:	Lab/PN/3837D/93M/08	Sampling Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	20/02/2025
Sample Type:	Waste Water	Analysis Start Date:	20/02/2025
Sample Description:	ETP Inlet	Analysis End Date:	25/02/2025
Sample Quantity:	5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.93	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	61.00	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)	264.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	3.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	80.00	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/3837D/93M/09

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/02/2025



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3837D/93M/09	Sampling Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	20/02/2025
Sample Type:	Waste Water	Analysis Start Date:	20/02/2025
Sample Description:	ETP Outlet	Analysis End Date:	25/02/2025
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	7.75	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids (TSS)	33.00	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)	48.00	mg/L	APHA 24th Edn 5220 B	250
5	Dissolved Oxygen	4.20	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	18.00	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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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3837D/93M/10

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/02/2025




### SAMPLE DETAILS

Lab ID:	Lab/PN/3837D/93M/10	Sampling Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	20/02/2025
Sample Type:	Waste Water	Analysis Start Date:	20/02/2025
Sample Description:	STP Intlet	Analysis End Date:	25/02/2025
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	7.01	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	83.00	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)	156.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	2.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	48.00	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/3837D/93M/11

Reporting Date : 27/02/2025

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3837D/93M/11	Sampling Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	20/02/2025
Sample Type:	Waste Water	Analysis Start Date:	20/02/2025
Sample Description:	STP Outlet	Analysis End Date:	25/02/2025
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	7.05	-	IS 3025- Part 11	NS
2	Total Suspended Solids (TSS)	26.00	mg/L	APHA 24th Edn 2540 D	50
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand (COD)	76.00	mg/L	APHA 24th Edn 5220 B	100
5	Dissolved Oxygen	3.80	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	23	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/4G	NS

Norms As Per CTO.

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/LPN/3837D/93M/12

Reporting Date: 27-02-2025

**M/s Moil Limited**

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3837D/93M/12	Sampling Start Date	: 17-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20-02-2025
Sample Location	: Administrative Building		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.11	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	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: GGML/PN/3837D/93M/13

Reporting Date: 27-02-2025

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3837D/93M/13	Sampling Start Date	: 17-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20-02-2025
Sample Location	: Near Vertical Shaft-1		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.11	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	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: GGMPL/PN/3837D/93M/14

Reporting Date: 27-02-2025

**M/s Moil Limited**

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3837D/93M/14	Sampling Start Date	: 17-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20-02-2025
Sample Location	: Near DSU Plant		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.11	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	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: GGMPL/PN/3837D/93M/15

Reporting Date: 27-02-2025

**M/s Moil Limited**

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3837D/93M/15	Sampling Start Date	: 17-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20-02-2025
Sample Location	: Near Compressor Room		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.11	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	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 : GGMPL/PN/3838D/93N/01

Reporting Date: 26/02/2025

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3838D/93N/01	Sampling Start Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/02/2025
Sample Description:	Near OLD OCF	Analysis start- End Date:	20/02/2025-25/02/2025
Env. Cond.-Sampling:	Temp-33°C/ Humidity-46%	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)	72.13	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)	20.56	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	30.95	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.60	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)	1.08	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 Standard.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3838D/93N/03

Reporting Date : 26/02/2025

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3838D/93N/03	Sampling Date:	18/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Pit Water Near Old Durga pit	Analysis End Date:	25/02/2025
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	141.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	46.09	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	40.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.74	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	23.08	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.77	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	43.06	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	374.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	13.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	210.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500

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

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Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3838D/93N/03

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S.)

Reporting Date : 26/02/2025



### SAMPLE DETAILS

Lab ID:	Lab/PN/3838D/93N/03	Sampling Date:	18/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Pit Water Near Old Durga pit	Analysis End Date:	25/02/2025
Sample Quantity:	3 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	3.97	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/3838D/93N/04

Reporting Date: 26.02.2025

**M/s Moil Limited**

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3838D/93N/04	Sampling Start Date	: 17-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20-02-2025
Sample Location	: Administrative Building		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.11	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	46.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	33.0	°C	GGMPL/SOP/MP/01

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Tantan Kumar



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Manish Kumawat

----End of Report----

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3839D/93O/01

Reporting Date: 27/02/2025

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S.)




### SAMPLE DETAILS

Lab ID:	Lab/PN/3839D/93O/01	Sampling Start Date:	17/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	18/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/02/2025
Sample Description:	Near Staff Colony	Analysis start- End Date:	20/02/2025-25/02/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sl.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.48	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)	18.24	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.30	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.68	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)	1.09	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 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: GGMP/L/PN/3839D/930/02

Reporting Date: 27/02/2025

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

17/02/2025

Sample By Hasanali Roshanali Sunasara

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3839D/930/02	Near Staff Colony	Day Time	dB(A)Leq	IS 4758	54.9	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3839D/930/03

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/02/2025



### SAMPLE DETAILS

Lab ID:	Lab/PN/3839D/930/03	Sampling Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	20/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Staff Colony Borewell	Analysis End Date:	25/02/2025
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 <sub>3</sub>	125.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	40.88	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	54.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.70	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	23.57	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.87	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	34.16	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	301.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	199.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500

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

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M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/02/2025



### SAMPLE DETAILS

Lab ID:	Lab/PN/3839D/930/03	Sampling Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sample Receipt Date:	20/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	Staff Colony Borewell	Analysis End Date:	25/02/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMP/L/W1/27A
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	2.10	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/3839D/930/04

Reporting Date: 27.2.2025

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S.)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3839D/930/04	Sampling Start Date	: 17-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20-02-2025
Sample Location	: Near Staff Colony		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.39	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	32.0	°C	GGMPL/SOP/MP/01

Wind Direction=N E

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3840D/93P/01

Reporting Date: 26/02/2025

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3840D/93P/01	Sampling Start Date:	17/02/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/02/2025
Sample Description:	Near VT Center	Analysis start- End Date:	20/02/2025-25/02/2025
Env. Cond.-Sampling:	Temp-34°C/ Humidity-45%	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)	73.31	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.40	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	19.39	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)	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)	1.11	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 Standard.

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

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Tantan Kumar



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3840D/93P/02

Reporting Date: 26/02/2025

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Hasanali Roshanali Sunasara

Sampling Date:

17/02/2025

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3840D/93P/02	Near VT Center	Day Time	dB(A)Leq	IS 4758	53.6	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3840D/93P/03

Reporting Date : 26/02/2025

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3840D/93P/03	Sampling Date:	18/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	VT Center Borewell	Analysis End Date:	25/02/2025
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	115.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	46.09	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	68.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.78	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.82	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.80	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	47.52	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	362.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	176.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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

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Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3840D/93P/03

Reporting Date : 26/02/2025

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3840D/93P/03	Sampling Date:	18/02/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/02/2025
Sample Type:	Ground Water	Analysis Start Date:	20/02/2025
Sample Description:	VT Center Borewell	Analysis End Date:	25/02/2025
Sample Quantity:	3 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	1.01	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/3840D/93P/04

Reporting Date: 26.02.2025

**M/s Moil Limited**

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



EC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3840D/93P/04	Sampling Start Date	: 17-02-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18-02-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20-02-2025
Sample Location	: Near Weight Bridge		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.11	m/s	GGMP/L/SOP/MP/01
2	Relative Humidity	45.0	%	GGMP/L/SOP/MP/01
3	Rainfall	0.0	mm	GGMP/L/SOP/MP/01:2020
4	Temperature	34.0	°C	GGMP/L/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3852D/93Q/01

Reporting Date: 28/02/2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3852D/93Q/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:	End Point Of Railway Siding	Analysis start- End Date:	21/02/2025-27/02/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-46%	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)	70.82	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)	20.80	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	30.15	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.90	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 NAAQ Standard.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3852D/93Q/02

Reporting Date: 28/02/2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3852D/93Q/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 Weigh Bridge	Analysis start- End Date:	21/02/2025-27/02/2025
Env. Cond.-Sampling:	Temp-30°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)	79.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	43.33	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.10	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	26.46	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)	1.05	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 NAAQ Standard.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3852D/93Q/03

Reporting Date: 28/02/2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek 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/3852D/93Q/03A	End Point of Railway Siding	Day Time	dB(A)Leq	IS 4758	65.4	-
2	Lab/PN/3852D/93Q/03B	Near Weigh Bridge	Day Time	dB(A)Leq	IS 4758	61.8	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3852D/93Q/04

Reporting Date : 28/02/2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3852D/93Q/04	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:	Point Of Railway Siding 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 <sub>3</sub>	182.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	47.69	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	0.98	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	29.88	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.81	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	31.77	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	360.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	242.00	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/3852D/93Q/04

Reporting Date : 28/02/2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3852D/93Q/04	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:	Point Of Railway Siding Borewell	Analysis End Date:	27/02/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

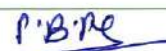
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.62	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	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/3852D/93Q/05

Reporting Date : 28/02/2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3852D/93Q/05	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:	Weigh Bridge 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 <sub>3</sub>	195.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	64.12	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	0.77	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.58	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.88	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	40.59	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	390.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	220.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3852D/93Q/05

Reporting Date : 28/02/2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3852D/93Q/05	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:	Weigh Bridge 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	2.09	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.

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3852D/93Q/06

Reporting Date: 28.02.2025

**M/s Moil Limited**

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3852D/93Q/06	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	: End Point f Railway Siding		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.56	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	30.0	°C	GGMPL/SOP/MP/01

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Manish Kumawat

---End of Report---

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3852D/93Q/07

Reporting Date: 28.02.2025

**M/s Moil Limited**

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3852D/93Q/07	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 Weigh Bridge		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.56	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	30.0	°C	GGMPL/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3853D/95U/01

Reporting Date: 28/02/2025

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

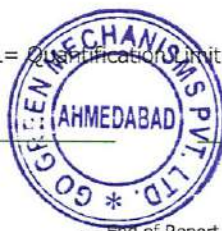
Lab ID:	Lab/PN/3853D/95U/01	Sampling Start Date:	18/02/2025
Sample Drawn By:	Hasanali Roshanali Sunasara	Sampling End Date:	19/02/2025
Sample Type:	Ambient Air	Sample Receipt Date:	21/02/2025
Sample Description:	Near Mine Office	Analysis start- End Date:	21/02/2025-27/02/2025
Env. Cond.-Sampling:	Temp-30°C/ 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)	80.6	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.33	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.21	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	28.13	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.21	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)	1.03	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 NAAQ Standards.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3853D/95U/02

Reporting Date: 28/02/2025

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3853D/95U/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:	Waste Dump Side	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)	75.2	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.4	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.09	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	29.36	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.90	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)	1.06	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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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3853D/95U/03

Reporting Date: 28/02/2025

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3853D/95U/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 Mine Pit	Analysis start- End Date:	21/02/2025-27/02/2025
Env. Cond.-Sampling:	Temp-32°C/ Humidity-55%	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)	78.89	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)	19.39	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.26	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.21	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)	1.03	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 NAAQ Standards.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3853D/95U/04

Reporting Date: 28/02/2025

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3853D/95U/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:	Mine Road ( Nr. Khasra no.19)	Analysis start- End Date:	21/02/2025-27/02/2025
Env. Cond.-Sampling:	Temp-31°C/ Humidity-56%	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)	69.97	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)	20.56	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.67	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.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3853D/95U/05

Reporting Date: 28/02/2025

M/s Moil Limited  
Parsoda Manganese Mines(M.S) L1 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/3853D/95U/05A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	61.2	-
2	Lab/PN/3853D/95U/05B	Waste Dump Side	Day Time	dB(A)Leq	IS 4758	63.2	-
3	Lab/PN/3853D/95U/05C	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	66.3	-
4	Lab/PN/3853D/95U/05D	Mine Road ( Nr. Khasra no.19)	Day Time	dB(A)Leq	IS 4758	64.2	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3853D/95U/06

Reporting Date : 28/02/2025

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3853D/95U/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:	Open Dugwell	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 <sub>3</sub>	180.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	40.88	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	60.48	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	35.96	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.93	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	55.53	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	378.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	11.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	250.00	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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Report Number: GGMPL/PN/3853D/95U/06

Reporting Date : 28/02/2025

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3853D/95U/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:	Open Dugwell	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	2.82	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/3853D/95U/07

Reporting Date : 28/02/2025

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3853D/95U/07	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:	Mine Pit 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	7.40	-	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)	76.0	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	20.0	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/3853D/95U/08

Reporting Date: 28.02.2025

**M/s Moil Limited**

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3853D/95U/08	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 Mine Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.56	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	54.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3853D/95U/09

Reporting Date: 28.02.2025

**M/s Moil Limited**

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3853D/95U/09	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	: Waste Dump Side		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.56	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	54.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

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Report Number: GGMP/L/PN/3853D/95U/10

Reporting Date: 28.02.2025

**M/s Moil Limited**

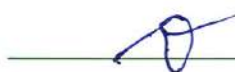
Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3853D/95U/10	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 Mine Pit		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.56	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	54.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	30.0	°C	GGMPL/SOP/MP/01



Reviewed & Authorized by

Tantan Kumar




Reviewed & Authorized by

Manish Kumawat

---End of Report---

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3853D/95U/11

Reporting Date: 28.02.2025

**M/s Moil Limited**

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3853D/95U/11	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	: Mine Road ( Nr. Khasra no.19)		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.56	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	54.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

---End of Report---

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