

Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426 Gujarat. INDIA

Mobile No: +91-7069072001

Email Id: lah@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 27/02/2025



C-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3837D/93M/01

Maulik Prajapati Ambient Air

Near Administrative Building Temp-31°C/ Humidity-45%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 17/02/2025 18/02/2025 20/02/2025

20/02/2025

20/02/2025-25/02/20 24

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 5187- 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

Reviewed & Authorized by Gyanvati Shukla

- End of Report -

Reviewed & Authorized by Payal Patel

P.B Pay

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3837D/93M/02

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:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3837D/93M/02

Maulik Prajapati Ambient Air

Near Vertical Shaft-1

Temp-31°C/ Humidity-45%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Total Sampling hours: Env. Cond.-Testing: 17/02/2025

18/02/2025 20/02/2025

20/02/2025-25/02/2025

24 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

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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3837D/93M/03

Maulik Prajapati Ambient Air Near SDU Plant

Temp-31°C/ Humidity-45%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

17/02/2025

18/02/2025 20/02/2025

20/02/2025-25/02/2025

24 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.

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

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# **CERTIFICATE OF ANALYSIS**

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

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/04

Sample Drawn By:

Maulik Prajapati

Sample Type:

Ambient Air

Sample Description: Env. Cond.-Sampling: Near Compressor Room

Env. Cond.-Sample Receipt:

Temp-31°C/ Humidity-45%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testina:

17/02/2025

18/02/2025 20/02/2025

20/02/2025-25/02/2025

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.97	µg/m3	Test Method  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.

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

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Report Number: GGMPL/PN/3837D/93M/05

M/s Moil Limited

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

Reporting Date: 27/02/2025



# SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

17/02/2025

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	2
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	•

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

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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

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara

Ground Water

Sample Description:

Administrative Building Bore well

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

25/02/2025 GGMPL/WI/27A

Sealed

18/02/2025

20/02/2025

20/02/2025

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	7.	IS 3025- Part 5	Agreeabl	e 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 SO4 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 CaCO3	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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan Reviewed & Authorized by Payal Patel

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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

Sample Drawn By:

Hasanali Roshanali Sunasara

Ground Water

Sample Type:

Administrative Building Bore well

Sample Description: Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

GGMPL/WI/27A

18/02/2025

20/02/2025

20/02/2025

25/02/2025

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by Payal Patel

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Emall 1d. lab@gogreenmechanisms.com

# **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



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/3837D/93M/07

3M/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: Analysis End Date:

20/02/2025 25/02/2025

Sample Description: Sample Quantity: Mine Seapage Water Vetical Shaft 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 o 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	_

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

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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/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 20/02/2025

Sample Type: Sample Description: Waste Water ETP Inlet

Analysis Start Date: Analysis End Date:

25/02/2025

Sample Quantity:

5 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.93	<b></b>	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 o C for 3 days	80.00	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/09

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/09

Sampling Date:

18/02/2025

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Receipt Date:

20/02/2025

Sample Type:

Waste Water ETP Outlet

Analysis Start Date: 20/02/2025 Analysis End Date:

25/02/2025

Sample Description: Sample Quantity:

5 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

r.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.75	050	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 o 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



TC-7073

## 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 20/02/2025

Sample Type: Sample Description: Waste Water STP Intlet Analysis Start Date: 20/0 Analysis End Date: 25/0

25/02/2025 GGMPL/WI/27A

Sample Quantity: Sample Condition: 5 L

Satisfactory

Sampling Method: Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.01	. <del>#</del> :	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	5
6	BOD at 27 o 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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End of Report ---

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3837D/93M/11

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/11

Sampling Date:

18/02/2025

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Receipt Date:

20/02/2025 20/02/2025

Sample Type:

Waste Water

Analysis Start Date: Analysis End Date:

25/02/2025

Sample Description: Sample Quantity: STP Outlet 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 o 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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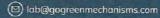
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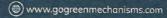
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3837D/93M/12

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

Sampling Instrument

Sample Type Sample Location : Lab/PN/3837D/93M/12

: Weather Monitoring Station

: Meteorological Parameter

: Administrative Building

Sampling Start Date

Sampling End Date

: 18-02-2025

Sample Receipt Date

: 20-02-2025

: 17-02-2025

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

Reviewed & Authorized by

Gyanvati Shukla

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Payal Patel

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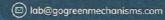
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/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

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3837D/93M/13 : Weather Monitoring Station : Meteorological Parameter

: Near Vertical Shaft-1

Sampling Start Date

: 17-02-2025 : 18-02-2025

Sampling End Date Sample Receipt Date

: 20-02-2025

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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Gyanvati Shukla

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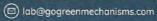
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3837D/93M/14

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

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3837D/93M/14

: Weather Monitoring Station

: Meteorological Parameter

: Near DSU Plant

Sampling Start Date

Sampling End Date

: 18-02-2025

Sample Receipt Date

: 20-02-2025

: 17-02-2025

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Parameters	Results	Unit	Test Method	
Wind Speed	1.11	m/s	GGMPL/SOP/MP/01	
Relative Humidity	45.0	%	GGMPL/SOP/MP/01	
Rainfall	0.0	mm	GGMPL/SOP/MP/01	
Temperature	31.0	°C	GGMPL/SOP/MP/01	
	Wind Speed Relative Humidity Rainfall	Wind Speed 1.11  Relative Humidity 45.0  Rainfall 0.0	Wind Speed 1.11 m/s  Relative Humidity 45.0 %  Rainfall 0.0 mm	Wind Speed         1.11         m/s         GGMPL/SOP/MP/01           Relative Humidity         45.0         %         GGMPL/SOP/MP/01           Rainfall         0.0         mm         GGMPL/SOP/MP/01

Wind Direction= E

Reviewed & Authorized by

Gyanvati Shukla

eviewed & Authorize

Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3837D/93M/15

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

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3837D/93M/15

: Weather Monitoring Station

: Meteorological Parameter

: Near Compressor Room

Sampling Start Date

Sampling End Date

: 17-02-2025 : 18-02-2025

Sample Receipt Date

: 20-02-2025

Indiana property and the second					
Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	1.11	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	45.0	0/0	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

Gyanvati Shukla

Payal Patel

Page 1 of 1

----End of Report----

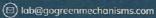
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3838D/93N/01

M/s Moil Limited

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

Reporting Date: 26/02/2025



TC-7073

## SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Trawn Ry'
Sample Type:
Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3838D/93N/01

Maulik Prajapati Ambient Air Near OLD OCF

Temp-33°C/ Humidity-46%

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 17/02/2025 18/07/2025 20/02/2025

20/02/2025-25/02/2025

24

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= Qu

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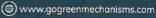
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3838D/93N/02

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

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

17/02/2025

Source Noise

1 Lab/PN/3838D/9 Near Old OCF Day Time dB(A)Leq IS 4758 59.4	

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

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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)



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/3838D/93N/03

Maulik Prajapati Ground Water

Pit Water Near Old Durga pit

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

18/02/2025

20/02/2025

20/02/2025

25/02/2025

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	e Agreeabl
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 SO4 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 CaCO3	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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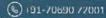
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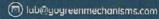
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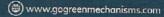
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# **CERTIFICATE OF ANALYSIS**

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)

Satisfactory

Reporting Date: 26/02/2025



Sealed

# SAMPLE DETAILS

Sample Condition:

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

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

Packing:

AL & PL As Per IS 10500

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

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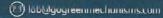
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3838D/93N/04

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

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3838D/93N/04

: Weather Monitoring Station

: Meteorological Parameter

: Administrative Building

Sampling Start Date

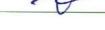
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Sampling End Date Sample Receipt Date : 17-02-2025

: 18-02-2025

: 20-02-2025

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



Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

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----End of Report----

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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3839D/930/01

M/s Moil Limited

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

Reporting Date: 27/02/2025



20/02/2025-25/02/2025

# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3839D/93O/01

Hasanali Roshanali Sunasara

Ambient Air Near Staff Colony

Temp-32°C/ Humidity-45% Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

24

17/02/2025

18/02/2025

20/02/2025

Env. Cond.-Testing: 25±5°C

r.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)	µд/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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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3839D/930/02

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

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

17/02/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3839D/9 30/02	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/93O/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



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/3839D/93O/03

Sample Drawn By:

Hasanali Roshanali Sunasara

Ground Water

Sample Type: Sample Description:

Staff Colony Borewell

3.5 L

Sample Quantity: Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

18/02/2025

20/02/2025 20/02/2025

25/02/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	h h-X h	No relaxation
9	Sulphate	34.16	mg/L	APHA 24th Edn 4500 SO4 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 CaCO3	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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan

Reviewed & Authorized by Payal Patel

PBPS

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

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



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/3839D/93O/03

Sampling Date: Sample Receipt Date: 18/02/2025 20/02/2025

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara Ground Water

Analysis Start Date:

20/02/2025

Sample Description:

Staff Colony Borewell

Analysis End Date: Sampling Method:

25/02/2025 GGMPL/WI/27A

Sample Quantity: Sample Condition:

3.5 L 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	2.10	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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan End of Report

Reviewed & Authorized by Payal Patel

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3839D/93O/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 Sampling Instrument : Lab/PN/3839D/93O/04

Sampling Start Date

: 17-02-2025

: 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

Reviewed & Authorized by

Gyanvati Shukla



Reviewed & At

Payal Patel

----End of Report----

Page 1 of 1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 26/02/2025



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3840D/93P/01 Maulik Prajapati Ambient Air Near VT Center

Temp-34°C/ Humidity-45%

Satisfactory

Sampling Start Date: 17/02/2025 Sampling End Date: 18/02/2025 Sample Receipt Date: 20/02/2025

Analysis start- End Date: 20/02/2025-25/02/2025

Total Sampling hours: 24 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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Reviewed & Authorized by Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 26/02/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

17/02/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3840D/9 3P/02	Near VT Center	Day Time	dB(A)Leq	IS 4758	53.6	-

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

Reviewed & Authorized by Tantan Kumar

\* of Report ---

Reviewed & Authorized by Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 26/02/2025



TC-7073

# SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Lab/PN/3840D/93P/03 Maulik Prajapati Ground Water

Sample Quantity: Sample Condition: 3 L

Satisfactory

VT Center Borewell

Sampling Date: Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

18/02/2025 20/02/2025 20/02/2025 25/02/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	Agreeabl	e 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 SO4 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 CaCO3	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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan

PBR Reviewed & Authorized by Payal Patel

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

M/s Moil Limited

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

Reporting Date: 26/02/2025



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description: Maulik Prajapati Ground Water VT Center Borewell

Lab/PN/3840D/93P/03

Sample Quantity: Sample Condition:

3 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

GGMPL/WI/27A

18/02/2025

20/02/2025

20/02/2025

25/02/2025

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

Reviewed & Authorized by

Tantan kumar & Dr. Haragobinda Srichandan

Reviewed & Authorized by Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/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)



# SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type Sample Location : Lab/PN/3840D/93P/04

: Weather Monitoring Station

: Meteorological Parameter

: Near Weight Briedge

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 17-02-2025

: 18-02-2025

: 20-02-2025

Parameters	Results	Unit	Test Method
Wind Speed	1.11	m/s	GGMPL/SOP/MP/01
Relative Humidity	45.0	%	GGMPL/SOP/MP/01
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
Temperature	34.0	°C	GGMPL/SOP/MP/01
	Wind Speed Relative Humidity Rainfall	Wind Speed 1.11  Relative Humidity 45.0  Rainfall 0.0	Wind Speed 1.11 m/s  Relative Humidity 45.0 %  Rainfall 0.0 mm

Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

Page 1 of 1

----End of Report----

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3852D/93Q/01

Hasanali Roshanali Sunasara

Ambient Air

End Point Of Railway Siding Temp-31°C/ Humidity-46%

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

18/02/2025

19/02/2025 21/02/2025

21/02/2025-27/02/2025

24 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
5	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= Qua

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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Env. Cond.-Sampling:

Sample Description: Env. Cond.-Sample Receipt: Lab/PN/3852D/93Q/02

Hasanali Roshanali Sunasara

Ambient Air

Near Weigh Bridge Temp-30°C/ Humidity-57%

Satisfactory

Sampling Start Date: 18/02/2025 Sampling End Date: 19/02/2025

Sample Receipt Date: 21/02/2025 Analysis start- End Date: 21/02/2025-27/02/2025

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

r.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 Lim

Reviewed & Authorized by Tantan Kumar



Reviewed & Authorized by Manish Kumawat

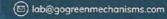
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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

18/02/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3852D/9 3Q/03A	End Point of Railway Siding	Day Time	dB(A)Leq	IS 4758	65.4	-
2	Lab/PN/3852D/9 3Q/03B	Near Weigh Bridge	Day Time	dB(A)Leq	IS 4758	61.8	

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

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



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: Analysis Start Date: 21/02/2025 21/02/2025

Sample Type: Sample Description: Ground Water Point Of Railway Sididng Borewell

Analysis End Date: Sampling Method:

APHA 24th Edn 2340 C

27/02/2025 GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5 L Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	Agreeabl	e 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 SO4 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

mg/L

AL & PL As Per IS 10500.

Total Hardness as CaCO3

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

242.00

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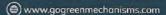
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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



## SAMPLE DETAILS

Lab ID: Lab/PN/3852D/93Q/04 Sampling Date: 19/02/2025 Hasanali Roshanali Sunasara Sample Receipt Date: Sample Drawn By: 21/02/2025 Ground Water Analysis Start Date: 21/02/2025 Sample Type: Sample Description: Point Of Railway Sididng 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	Nîtrale	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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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Lab/PN/3852D/93Q/05 Hasanali Roshanali Sunasara

Ground Water

Sample Description:

Weigh Bridge Borewell

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

27/02/2025 GGMPL/WI/27A

19/02/2025

21/02/2025

21/02/2025

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	195.00	mg/L	APHA 24th Edn 2320 B	200	600
1000						
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	Agreeabl	e 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 SO4 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 CaCO3	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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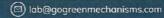
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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



TC-7073

### SAMPLE DETAILS

Sampling Date: 19/02/2025 Lab/PN/3852D/93O/05 Lab ID: 21/02/2025 Sample Receipt Date: Sample Drawn By: Hasanali Roshanali Sunasara 21/02/2025 Ground Water Analysis Start Date: Sample Type: 27/02/2025 Sample Description: Weigh Bridge Borewell Analysis End Date: GGMPL/WI/27A Sample Quantity: 3.5 L Sampling Method:

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/45	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.

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

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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/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 Sampling Instrument

Sample Type Sample Location : Lab/PN/3852D/93Q/06

: Weather Monitoring Station

: Meteorological Parameter

: End Point f Railway Siding

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 18-02-2025 : 19-02-2025

: 21-02-2025

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

10

Reviewed & Authorized by

Tantan Kumar

AHMEDABAD PV

Reviewed & Authorized by

Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

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

Reporting Date: 28.02.2025



## SAMPLE DETAILS

M/s Moil Limited

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3852D/93Q/07

: Weather Monitoring Station

: Meteorological Parameter

: Near Weigh Bridge

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 18-02-2025

: 19-02-2025

: 21-02-2025

0.56	m/s	GGMPL/SOP/MP/01	
	1140	GGF# E/301/1#701	
y 58.0	%	GGMPL/SOP/MP/01	
0.0	mm	GGMPL/SOP/MP/01:2020	
	or	GGMPI /SOP/MP/01	
it	0.0	0.0 mm	0.0 mm GGMPL/SOP/MP/01:2020 °C GGMPL/SOP/MP/01

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Tantan Kumar



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Manish Kumawat

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----End of Report----

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



21/02/2025-27/02/2025

18/02/2025

19/02/2025

21/02/2025

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3853D/95U/01

Hasanali Roshanali Sunasara

Ambient Air Near Mine Office

Temp-30°C/ Humidity-59%

Saticfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: 24

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	Ovides 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
1	Benzene	BQL (QL=2.5)	µg/m3	15 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=

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Env. Cond.-Sampling:

Sample Description:

Env. Cond.-Sample Receipt:

Lab/PN/3853D/95U/02

Hasanali Roshanali Sunasara

Ambient Air

Waste Dump Side

Temp-31°C/ Humidity-57%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

18/02/2025

19/02/2025 21/02/2025

21/02/2025-27/02/2025

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.

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

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Description:

Env. Cond.-Sampling:

Sample Type:

Env. Cond.-Sample Receipt:

Lab/PN/3853D/95U/03

Hasanali Roshanali Sunasara

Ambient Air Near Mine Pit

Temp-32°C/ Humidity-55%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

18/02/2025 19/02/2025

21/02/2025

21/02/2025-27/02/2025

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	µд/т3	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

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Fnv. Cond.-Sample Receipt:

Lab/PN/3853D/95U/04

Hasanali Roshanali Sunasara

Ambient Air

Mine Road ( Nr. Khasra no.19)

Temp-31°C/ Humidity-56%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 18/02/2025

19/02/2025 21/02/2025

21/02/2025-27/02/2025

24

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

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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

18/02/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3853D/9 5U/05A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	61.2	-
2	Lab/PN/3853D/9 5U/05B	Waste Dump Side	Day Time	dB(A)Leq	IS 4758	63.2	
3	Lab/PN/3853D/9 5U/05C	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	66.3	-
4	Lab/PN/3853D/9 5U/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

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/3853D/95U/06

Sample Drawn By:

Hasanali Roshanali Sunasara

Ground Water

Sample Type: Sample Description:

Open Dugwell

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Date:

19/02/2025

Sample Receipt Date: Analysis Start Date:

21/02/2025 21/02/2025

Analysis End Date: Sampling Method:

27/02/2025 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	Agreeabl	e 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 SO4 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 CaCO3	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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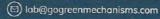
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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 28/02/2025



## 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 Ground Water Sample Type: 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

M/s Moil Limited

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

Reporting Date: 28/02/2025



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/3853D/95U/07

Hasanali Roshanali Sunasara Ground Water

Mine Pit Water

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

19/02/2025

21/02/2025 21/02/2025 27/02/2025

GGMPL/WI/27A

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 o 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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Reviewed & Authorized by Manish Kumawat

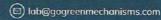
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# **CERTIFICATE OF ANALYSIS**

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 Location

: Near Mine Office

Sample Receipt Date : 21-02-2025

Parameters	Results	Unit	Test Method	
Wind Epood	0.56	nv/s	GGMPL/SOP/MP/01	
Relative Humidity	54.0	%	GGMPL/SOP/MP/01	
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
Temperature	30.0	°C	GGMPL/SOP/MP/01	
	Wind Epood  Relative Humidity  Rainfall	Wind Epood 0.50  Relative Humidity 54.0  Rainfall 0.0	Wind Epood 0.56 m/s  Relative Humidity 54.0 %  Rainfall 0.0 mm	Wind Epood         0.66         m/3         GCMPL/SOP/MP/01           Relative Humidity         54.0         %         GGMPL/SOP/MP/01           Rainfall         0.0         mm         GGMPL/SOP/MP/01:2020

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Tantan Kumar



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Manish Kumawat

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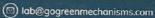
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# **CERTIFICATE OF ANALYSIS**

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

Sampling Instrument

Sample Type Sample Location

: Lab/PN/3853D/95U/09

: Weather Monitoring Station

: Meteorological Parameter

: Waste Dump Side

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 18-02-2025

: 19-02-2025

: 21-02-2025

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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Tantan Kumar



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Manish Kumawat

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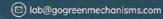
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/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

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3853D/95U/10

: Weather Monitoring Station

: Meteorological Parameter

: Near Mine Pit

Sampling Start Date

Sampling End Date Sample Receipt Date : 18-02-2025

: 19-02-2025

: 21-02-2025

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/11

M/s Moil Limited

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

Reporting Date: 28.02.2025



## SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type
Sample Location

: Lab/PN/3853D/95U/11

: Weather Monitoring Station

: Meteorological Parameter

: Mine Road ( Nr. Khasra no.19)

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 18-02-2025

: 19-02-2025

: 21-02-2025

Parameters	Results	Unit	Test Method	
Wind Speed	0.56	m/s	GGMPL/SOP/MP/01	
Relative Humidity	54.0	%	GGMPL/SOP/MP/01	
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
Temperature	30.0	°C	GGMPL/SOP/MP/01	
	Wind Speed Relative Humidity Rainfall	Wind Speed 0.56  Relative Humidity 54.0  Rainfall 0.0	Wind Speed 0.56 m/s  Relative Humidity 54.0 %  Rainfall 0.0 mm	Wind Speed         0.56         m/s         GGMPL/SOP/MP/01           Relative Humidity         54.0         %         GGMPL/SOP/MP/01           Rainfall         0.0         mm         GGMPL/SOP/MP/01:2020



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