

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

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3974D/77/01

Hasanali Roshanali Sunasara

Ambient Air Near Mine Ofiice

Temp-31°C/ Humidity-48% Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 01/03/2025 02/03/2025 04/03/2025

05/03/2025-11/03/2025

24 25±5°C

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

Norms As Per NAAQ Standards.

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

Reviewed & Authorized by Tantan Kumar



Reviewed & Authorized by Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3974D/77/02

Hasanali Roshanali Sunasara

Ambient Air Near Mine Pit

Temp-31°C/ Humidity-48%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

01/03/2025

02/03/2025 04/03/2025

05/03/2025-11/03/2025

24 25±5°C

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

Norms As Per NAAQ Standards.

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3974D/77/03

Hasanali Roshanali Sunasara

Ambient Air Near Mine Dump

Temp-31°C/ Humidity-48%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

For Cond.-Testing:

01/03/2025

02/03/2025 04/03/2025

05/03/2025-11/03/2025

25±5°C

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

Norms As Per NAAQ Standards.

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3974D/77/04

Hasanali Roshanali Sunasara

Ambient Air

Near Sitapatore Village Temp-31°C/ Humidity-48%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

04/03/2025

01/03/2025

02/03/2025

05/03/2025-11/03/2025 24

Env. Cond.-Testing: 25±5°C

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

Norms As Per NAAQ Standards.

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

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Report Number: GGMPL/PN/3974D/77/05

M/s Moil Limited

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

Reporting Date: 11/03/2025



# SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasan Ali

Sampling Date:

Sample Description:

01/03/2025

Source Noise

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

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

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



## SAMPLE DETAILS

Lab ID:

Lab/PN/3974D/77/06

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara

Ground Water

Sample Description:

Mine Office Open Dug Well

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

05/03/2025 11/03/2025

Sealed

02/03/2025

04/03/2025

GGMPL/WI/27A

Packing:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	195.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	52.90	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	45.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.71	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.38	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	×	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.58		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	40.39	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	380.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as 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

Revlewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by Payal Patel

PBRL

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



# SAMPLE DETAILS

Lab ID:

Lab/PN/3974D/77/06

Sample Drawn By: Sample Type: Hasanali Roshanali Sunasara

Ground Water

Sample Description:

Mine Office Open Dug Well

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

02/03/2025

04/03/2025 05/03/2025

11/03/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Fdn 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.	2.13	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

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

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Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by Payal Patel

PB:PR

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3974D/77/07

M/s Moil Limited

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

Reporting Date: 11/03/2025



## SAMPLE DETAILS

Lab ID:

Lab/PN/3974D/77/07

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Ground Water

Sample Description:

Sitapatore Village Open Dug Well

Sample Quantity: Sample Condition: 3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

02/03/2025

04/03/2025 05/03/2025

11/03/2025

GGMPL/WI/27A Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	130.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	39.27	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	34.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.36	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.17	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	ii.	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.70		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	29.30	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	255.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	144.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan

PERO-Reviewed & Authorized by Payal Patel

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3974D/77/07

M/s Moil Limited

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

Reporting Date: 11/03/2025



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/3974D/77/07

Hasanali Roshanali Sunasara

Sample Drawn By: Sample Type:

Ground Water

Sample Description:

Sitapatore Village Open Dug Well

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

02/03/2025

04/03/2025 05/03/2025

11/03/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13 T	urbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14 Ir	ron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15 M	langanese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16 N	litrate	1.70	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17 To	otal 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/3974D/77/08

M/s Moil Limited

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

Reporting Date: 11/03/2025



## SAMPLE DETAILS

Lab ID:

Lab/PN/3974D/77/08

Sample Drawn By:

Sample Description:

Sample Quantity:

Sample Condition:

Hasanali Roshanali Sunasara

G.W of Mine premises Borewell Water

Sample Type:

Ground Water

02/03/2025

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

Sampling Date:

04/03/2025 05/03/2025

Sampling Method:

11/03/2025 GGMPL/WI/27A

3.5 L Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	134.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	36.47	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	39.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.47	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.90	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.51	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	17.82	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	250.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	140.00	ma/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3974D/77/08

M/s Moil Limited

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

Reporting Date: 11/03/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/3974D/77/08

Sampling Date: 02/03/2025

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara

04/03/2025 05/03/2025

Sample Description:

Ground Water G.W of Mine premises Borewell Water Analysis Start Date: Analysis End Date: 11/03/2025 Sampling Method: GGMPL/WI/27A

Sample Quantity:

3.5 L

Packing:

Sample Receipt Date:

Sample Condition:

Satisfactory

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.57	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

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

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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



### SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/3974D/77/09 Hasanali Roshanali Sunasara

Waste Water

Sample Type: Sample Description:

Mine Discharge Water

Sample Quantity:

5 L

Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Packing:

Sampling Method:

11/03/2025 GGMPL/WI/27A

02/03/2025

04/03/2025

05/03/2025

Sealed

Sr.No	a Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.52	-	IS 3025- Part 11	
2	Total Suspended Solids (TSS)	26.00	mg/L	APHA 24th Edn 2540 D	En-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Demand (COD)	60.00	mg/L	APHA 24th Edn 5220 B	
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	14.7	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	

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

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11-03-2025



# SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3974D/77/10

: Weather Monitoring Station

: Meteorological Parameter

: Near Mine Office

Sampling Start Date

Sampling End Date

: 01-03-2025 : 02-03-2025

Sample Receipt Date

: 04-03-2025

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

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Tantan Kumar



Manish Kumawai

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# **CERTIFICATE OF ANALYSIS**

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

Reporting Date: 11-03-2025

# M/s Moil Limited

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



# SAMPLE DETAILS

Lab ID

: Lab/PN/3974D/77/11

Sampling Start Date

: 01-03-2025

Sampling Instrument

: Weather Monitoring Station

Sampling End Date

: 02-03-2025

Sample Type

: Meteorological Parameter

Sample Receipt Date

: 04-03-2025

Sample Location

: Near Mine Pit

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

Tantan Kumar



Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11-03-2025



# SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3974D/77/12

: Weather Monitoring Station

: Meteorological Parameter

: Near Mine Dump

Sampling Start Date

: 01-03-2025

Sampling End Date

: 02-03-2025

Sample Receipt Date

: 04-03-2025

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

Tantan Kumar



Manish Kumawat

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(%) +91-70690 72001



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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11-03-2025



# SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3974D/77/13

: Weather Monitoring Station

: Meteorological Parameter

: Near Sitapatore Village

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 01-03-2025 : 02-03-2025

: 04-03-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.85	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	48.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	31.0	°C	GGMPL/SOP/MP/01	



Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

----End of Report----

Page 1 of 1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Arsenic as As

Lead

Lab/PN/3975D/77A/01

Hasanali Roshanali Sunasara

Ambient Air Near Haul Road

Temp-31°C/ Humidity-48%

Satisfactory

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

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

01/03/2025

02/03/2025 04/03/2025

05/03/2025-11/03/2025

24 25±5°C

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

BQL (QL=1)

BQL (QL=0.001)

Norms As Per National Ambient Air Quality Standards.

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

Reviewed & Authorized by Gyanvati Shukla

AHMEDABAD 9 \* End of Report

ng/m3

ца/т3

Method IO 3.4

Method IO 3.4

Reviewed & Authorized by Payal Patel

BRE

Page No: 1/1

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(%) +91-70690 72001



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3975D/77A/02

M/s Moil Limited

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

Reporting Date: 11/03/2025



# SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

01/03/2025

Source Noise

r.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3975D/7 7A/02	Haul Road	Day Time	dB(A)Leq	IS 4758	55.6	

Reviewed & Authorized by Gyanvati Shukla

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

Reviewed & Authorized by Payal Patel

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/3975D/77A/03

Hasanali Roshanali Sunasara

G.W of Open Dug Well Water Supply

Sampling Date: Sample Receipt Date: 02/03/2025 04/03/2025

Sample Type:

Ground Water

Analysis Start Date: Analysis End Date:

05/03/2025 11/03/2025 GGMPL/WI/27A

Sample Description: Sample Quantity:

3.5 L

Sampling Method:

Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	178.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	48.49	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	88,47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.41	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	30.13	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.60		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	37.12	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	380.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	245.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan PBRE

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Page No: 1/2

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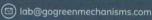
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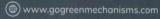
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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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



## SAMPLE DETAILS

Lab ID:

Lab/PN/3975D/77A/03

Sampling Date:

02/03/2025

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Receipt Date: Analysis Start Date:

04/03/2025 05/03/2025

Sample Type: Sample Description: Ground Water G.W of Open Dug Well Water Supply

Analysis End Date:

11/03/2025 GGMPL/WI/27A

Sample Quantity:

3.5 L

Sampling Method:

Sealed

Sample Condition: Satisfactory

Packing:

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

AL & PL As Per IS 10500

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3975D/77A/04

Reporting Date: 11-03-2025

# M/s Moil Limited

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



: Lab/PN/3975D/77A/04

Sampling Start Date Sampling End Date

: 01-03-2025 : 02-03-2025

Sampling Instrument Sample Type

: Weather Monitoring Station : Meteorological Parameter

Sample Receipt Date

Sample Location

Lab ID

: Near Haul Road

: 04-03-2025

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

Reviewed & Authorized by

Gyanvati Shukla



Reviewed & Authorized by

Payal Patel

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Page 1 of 1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 12/03/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3983D/78/01

Hasanali Roshanali Sunasara

Ambient Air

Near Pit No-2

Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 02/03/2025

03/03/2025 05/03/2025

05/03/2025-11/03/2025

24 25±5°C

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

Norms AS Per NAAQ Standards.

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

Reviewed & Authorized by Tantan Kumar AHMEDABAD TO OF REPORT

Reviewed & Authorized by Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3983D/78/02

Hasanali Roshanali Sunasara

Ambient Air

Near Sukali Village

Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 02/03/2025

03/03/2025 05/03/2025

05/03/2025-11/03/2025

24

25±5°C

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

Norms AS Per NAAQ Standards.

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

Reviewed & Authorized by

**Lantan Kumar** 



Reviewed & Authorized by Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3983D/78/03

Hasanali Roshanali Sunasara

Ambient Air Near Haul Road

Temp-31°C/ Humidity-43%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

02/03/2025

03/03/2025 05/03/2025

05/03/2025-11/03/2025

25±5°C

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

Norms AS Per NAAQ Standards.

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

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Reviewed & Authorized by Manish Kumawat

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

02/03/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3983D/7 8/04A	Near Pit No.2	Day Time	dB(A)Leq	IS 4758	61.4	-
2	Lab/PN/3983D/7 8/04B	Near Sukali Village	Day Time	dB(A)Leq	IS 4758	63.7	
3	Lab/PN/3983D/7 8/04C	Haul Road	Day Time	dB(A)Leq	IS 4758	59.8	

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

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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



# SAMPLE DETAILS

Lab ID:

Lab/PN/3983D/78/05

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Ground Water

Satisfactory

Sample Description: Sample Quantity: Sukali Village Borewell

3.5 L

Sample Condition:

Sampling Date: Sample Receipt

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 03/03/2025

05/03/2025 05/03/2025

11/03/2025 GGMPL/WI/27A

Sealed

Sr.N	o Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	161.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	53.71	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	23.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.75	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.64	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5		le Agreeable
8	pH at 25 °C	7.56		IS 3025- Part 11	6.5-8.5	No
9	Sulphate	15,44	mg/L	APHA 24th Edn 4500 SO4 E	200	relaxation 400
10	Total Dissolved Solids (TDS)	254.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	186.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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

1 HB

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P.BRC

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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 11/03/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/3983D/78/05

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Ground Water

Sample Description:

Sukali Village Borewell

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 03/03/2025

05/03/2025 05/03/2025 11/03/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.75	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

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

18 HB

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3983D/78/06

M/s Moil Limited

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

Reporting Date: 11/03/2025



## SAMPLE DETAILS

Lab ID:

Lab/PN/3983D/78/06

Sample Drawn By:

Hasanali Roshanali Sunasara

Ground Water

Sample Type: Sample Description:

G.W of Near Pit No-5 water supply

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

03/03/2025

05/03/2025 05/03/2025

11/03/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	79.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	25.65	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	62.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.61	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.17	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.36		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.57	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	248.0	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	147.0	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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



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PBRS

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3983D/78/06

M/s Moil Limited

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

Reporting Date: 11/03/2025



# SAMPLE DETAILS

I ab ID: Sample Drawn By:

Sample Type:

Sample Description:

Lab/PN/3983D/78/06

Hasanali Roshanali Sunasara

Ground Water

G.W of Near Pit No-5 water supply

Sample Quantity: Sample Condition:

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

11/03/2025 GGMPL/WI/27A

03/03/2025

05/03/2025

05/03/2025

	- 7	- 77
-		
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Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Lurbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.82	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3983D/78/07

M/s Moil Limited

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

Reporting Date: 11/03/2025



## SAMPLE DETAILS

Lab ID:

Lab/PN/3983D/78/07

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Waste Water

Sample Description:

Mine Discharge Water

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

03/03/2025 05/03/2025

05/03/2025

11/03/2025 GGMPL/WI/27A

Sealed

.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.46	-	IS 3025- Part 11	6.5 To 9.0
2	Total Suspended Solids (TSS)	28.00	mg/L	APHA 24th Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand (COD)	84.00	mg/L	APHA 24th Edn 5220 B	250
5	Dissolved Oxygen	4.40	mg/L	IS 3025- Part 38	**
6	BOD at 27 o C for 3 days	23.0	mg/L	IS 3025- Part 44	30
7	Manganese	0.57	mg/L	GGMPL/SOP/W&WW/46	197

Norms As Per CTO

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

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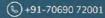
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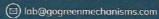
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# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 12.03.2025



## SAMPLE DETAILS

Lab ID Sampling Instrument Sample Type

Sample Location

: Lab/PN/3983D/78/08 : Weather Monitoring Station

> : Meteorological Parameter · Near Pit No-2

Sampling Start Date

: 02.03.2025 : 03.03.2025

Sampling End Date Sample Receipt Date

: 05.03.2025

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

Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

----End of Report----

Page 1 of 1

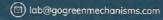
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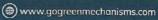
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Dayal Estate, National Highway No. 8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426,







# **CERTIFICATE OF ANALYSIS**

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

M/s Moil Limited

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

Reporting Date: 12.03.2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type Sample Location : Lab/PN/3983D/78/09

: Weather Monitoring Station

: Meteorological Parameter

: Near Sukali Village

Sampling Start Date

Sampling End Date

: 02.03.2025 : 03.03.2025

Sample Receipt Date

: 05.03.2025

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

Reviewed & Authorized by

Tantan kumar



Reviewed & Authorized by

Manish Kumawat

----End of Report----

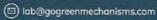
Page 1 of 1

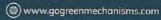
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Dayal Estate, National Highway No. 8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426, Gujarat. INDIA.







# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3983D/78/10

M/s Moil Limited

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

Reporting Date: 12.03.2025



# SAMPLE DETAILS

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3983D/78/10

: Weather Monitoring Station

: Meteorological Parameter

: Near Haul Road

Sampling Start Date

Sampling End Date

: 02.03.2025 : 03.03.2025

Sample Receipt Date

: 05.03.2025

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

Reviewed & Authorized by

Tantan Kumar



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Manish Kumawat

----End of Report----

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