

Dayal Estate, National Highway No.0, 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/3854D/97I/01

M/s Moil Limited

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

(M.S)

Reporting Date: 28/02/2025



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3854D/97I/01

Hasanali Roshanali Sunasara

Ambient Air Near Haul Road

Temp-32°C/ Humidity-59%

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

1/02/2025-27/02/202 4

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	72.72	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.57	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.57	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	32.03	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.98	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.44	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

Reviewed & Authorized by Gyanvati Shukla AHMEDABAD 2

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Reviewed & Authorized by Payal Patel

Page No: 1/1

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M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha 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: Env. Cond.-Sample Receipt: Lab/PN/3854D/97I/02

Hasanali Roshanali Sunasara

Ambient Air

Near Electric Substation Temp-33°C/ Humidity-60%

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)	77.04	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	45.82	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	22.69	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	28.84	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.52	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.05	μg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001	1) µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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

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/3854D/97I/03

Hasanali Roshanali Sunasara

Ambient Air Near Staff Colony

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

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.92	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.03	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	30.92	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.82	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	20.83	μg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	μg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

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M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha 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: Env. Cond.-Sample Receipt:

Nickel as Ni

Arsenic as As

Lead

11

Lab/PN/3854D/97I/04

Hasanali Roshanali Sunasara

Ambient Air Near Hospital

Temp-32°C/ Humidity-59%

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)	69.65	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.13	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	29.53	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.68	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.81	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4

ng/m3

ng/m3

µg/m3

Method IO 3.4

Method IO 3.4

Method IO 3.4

BQL (QL=5)

BQL (QL=1)

BQL (QL=0.001)

AHMEDAB

* Fad of Ref

09

Norms As Per National Ambient Air Quality Standards.

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

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M/s Moil Limited

Beldongri Manganese Mines(M.S) L1=25.66 Ha 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	Lest Method	Reading	Norms
1	Lab/PN/3854D/9 7I/05A	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	62.5	-
2	Lab/PN/3854D/9 7I/05B	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	63.9	
3	Lab/PN/3854D/9 7I/05C	Near Haul Road	Day Time	dB(A)Leq	IS 4758	64.3	
4	Lab/PN/3854D/9 7I/05D	Near Jack Hammer Drill	Day Time	dB(A)Leq	IS 4758	65.2	10.77 by 20.15

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

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3854D/97I/06

M/s Moil Limited

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

(M.S)

Reporting Date: 28/02/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3854D/97I/06

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara

Ground Water

Sample Description:

Nr Hanuman Mandir well

Sample Quantity: Sample Condition: Satisfactory

3.5 L

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Pa

19/02/2025

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

GGMPL/WI/27A

icking:	Sealed
3.	

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	128.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	39.27	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	39.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.75	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.71	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	+	IS 3025- Part 5	Agreeabl	le Agreeable
8	pH at 25 °C	7.68		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	34.84	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	282.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	175.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

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

(M.S)

Reporting Date: 28/02/2025



TC-7073

Absent

Absent

Absent

Absent

SAMPLE DETAILS

Lab ID:

Lab/PN/3854D/97I/06

19/02/2025 Sample Receipt Date:

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara

Absent

Absent

21/02/2025

Sample Description:

Ground Water Nr Hanuman Mandir well 21/02/2025

Sample Quantity:

27/02/2025 GGMPL/WI/27A

Sample Condition:

3.51 Satisfactory

Sampling Method: Packing:

Sampling Date:

Analysis Start Date:

Analysis End Date:

APHA 9221 B 24th Edition

APHA 9221 G 24th Edition

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.39	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation

Per 100ml

Per 100ml

AL & PL As Per IS 10500.

Total coliform

E. coli

18

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

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Report Number: GGMPL/PN/3854D/97I/07

M/s Moil Limited

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

(M.S)

Reporting Date: 28/02/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3854D/97I/07

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Waste Water

Sample Description:

STP Inlet

Sample Quantity: Sample Condition: 5 L Satisfa Sampling Date:

19/02/2025

Sample Receipt Date: Analysis Start Date:

21/02/2025 21/02/2025

Analysis End Date:

27/02/2025 GGMPL/WI/27A

Sampling Method:

ictory	Pack

king:	Sea

1 pH at 25 °C 7.78 - 2 Total Suspended Solids (TSS) 140.00 mg/L 3 Oil and Grease 3.67 mg/L	IS 3025- Part 11 -
3 Oil and Grease 3.67 mg/L	
ing, c	APHA 24th Edn 2540 D -
4 5 10 0 0 1000	IS 3025- Part 39 -
4 Chemical Oxygen Demand (COD) 160.00 mg/L	APHA 24th Edn 5220 B
5 Dissolved Oxygen 3.20 mg/L	IS 3025- Part 38 -
6 BOD at 27 o C for 3 days 52.00 mg/L	IS 3025- Part 44
7 Manganese BQL (QL=0.1) mg/L	GGMPL/SOP/W&WW/46 -

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

Reviewed & Authorized by Gyanvati Shukla

End of Report ---

AHMEDABA

Reviewed & Authorized by Payal Patel

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 28/02/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3854D/97I/08

Sampling Date: Sample Receipt Date: 19/02/2025

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara Waste Water

Analysis Start Date:

21/02/2025 21/02/2025

Sample Description:

STP Outlet

Analysis End Date: Sampling Method:

27/02/2025 GGMPL/WI/27A

Sample Quantity: Sample Condition: 5 L

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.71	-	IS 3025- Part 11	NS
2	Total Suspended Solids (TSS)	44.00	mg/L	APHA 24th Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand (COD)	40.00	mg/L	APHA 24th Edn 5220 B	NS
5	Dissolved Oxygen	5.50	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	12	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	NS

Norms As Per CTO

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

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4 End of Report

Reviewed & Authorized by Payal Patel

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 28/02/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3854D/97I/09

Sampling Date: Sample Receipt Date: 19/02/2025 21/02/2025

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara Waste Water

Analysis Start Date:

21/02/2025

Sample Description:

ETP Inlet

Satisfactory

Analysis End Date: Sampling Method:

27/02/2025 GGMPL/WI/27A

Sample Quantity: Sample Condition: 5 L

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.38	(#.)	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	108.00	mg/L	APHA 24th Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	•
4	Chemical Oxygen Demand (COD)	116.00	mg/L	APHA 24th Edn 5220 B	
5	Dissolved Oxygen	4.10	mg/L	IS 3025- Part 38	l a d
6	BOD at 27 o C for 3 days	30	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	•

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

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End of Report

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 28/02/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3854D/97I/10

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Waste Water

Sample Description:

ETP outlet

Sample Quantity:

5 L

Sample Condition:

Satisfactory

Sampling Date:

Sampling Date: Sample Receipt Date: 19/02/2025 21/02/2025

Analysis Start Date:

21/02/2025

Analysis End Date:

27/02/2025 GGMPL/WI/27A

Sampling Method: Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.56	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids (TSS)	20.00	mg/L	APHA 24th Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4 .	Chemical Oxygen Demand (COD)	36.00	mg/L	APHA 24th Edn 5220 B	250
5	Dissolved Oxygen	5.10	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	8.80	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	NS

Norms As Per CTO.

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

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3854D/97I/11

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/3854D/97I/11

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: Waste Water

Analysis End Date:

27/02/2025

Sample Quantity:

Mine Seapage Underground water

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.68	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	35.00	mg/L	APHA 24th Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	:=
4	Chemical Oxygen Demand (COD)	60.00	mg/L	API IA 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	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

Reviewed & Authorized by Gyanvati Shukla AHMEDABAD P

Reviewed & Authorized by Payal Patel

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3854D/97/13

Reporting Date: 28-02-2025

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument Sample Type

Sample Location

: Lab/PN/3854D/97I/13 : Weather Monitoring Station

: Meteorological Parameter

: Near Electric Substation

Sampling Start Date

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

Sampling End Date Sample Receipt Date

: 21-02-2025

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

Wind Direction= W

Reviewed & Authorized by

Gyanvati Shukla

& Authorized by

Payal Patel

----End of Report----

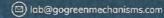
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3854D/97/12

Reporting Date: 28-02-2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID

Sample Type

Sampling Instrument

Sample Location

: Lab/PN/3854D/97I/12

: Weather Monitoring Station

: Meteorological Parameter

: Near Haul Road

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 19-02-2025 : 21-02-2025

: 18-02-2025

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

Wind Direction= W

Reviewed & Authorized by

Gyanvati Shukla

Reviewed & Author

Payal Patel

Page 1 of 1

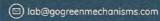
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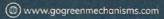
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CERTIFICATE OF ANALYSIS

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

Reporting Date: 28-02-2025

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument Sample Type

Sample Location

: Lab/PN/3854D/97I/14

: Weather Monitoring Station

: Meteorological Parameter : Near Staff Colony

Sampling Start Date

Sampling End Date

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

Sample Receipt Date

: 21-02-2025

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

Wind Direction= W

Reviewed & Authorized by

Gyanvati Shukla

Payal Patel

Page 1 of 1

----End of Report----

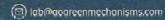
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CERTIFICATE OF ANALYSIS

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

Reporting Date: 28-02-2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3854D/97I/15

: Weather Monitoring Station

: Meteorological Parameter

: Near Hospital

Sampling Start Date

Sampling End Date

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

Sample Receipt Date

: 21-02-2025

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

Wind Direction= W

Reviewed & Authorized by

Gyanvati Shukla

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Payal Patel

Page 1 of 1

----End of Report----

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

(M.S)

Reporting Date: 28/02/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3855D/79J/01

Hasanali Roshanali Sunasara

Ambient Air Near OCF

Temp-32°C/ Humidity-44%

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)	66.87	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.74	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.27	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.26	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.27	µg/m3	GGMPL/SOP/M/62	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Berizo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	μg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

Reviewed & Authorized by Gyanvati Shukla Reviewed & Authorized by Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

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/3855D/7 9J/02	Near OCF	Day Time	dB(A)Leq	IS 4758	59.8	-

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

Reviewed & Authorized by Gyanvati Shukla

End of Report -

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Reviewed & Authorized by Payal Patel

Page No: 1/1



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3855D/79J/03

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/3855D/79J/03

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Ground Water

Sample Description: Sample Quantity: OCF Borewell 3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

19/02/2025 21/02/2025

Analysis Start Date: Analysis End Date: 21/02/2025 27/02/2025

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	226.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	62.52	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	35.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.26	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.30	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	•	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.59	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.21	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	373.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	256.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

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

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan

Reviewed & Authorized by Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3855D/79J/03

M/s Moil Limited

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

(M.S)

Reporting Date: 28/02/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3855D/79J/03

Hasanali Roshanali Sunasara Ground Water

Sample Drawn By: Sample Type: Sample Description:

OCF Borewell

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

19/02/2025

Sample Receipt Date:

21/02/2025 21/02/2025

Analysis Start Date: Analysis End Date:

27/02/2025

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	ΛΡΗΛ 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.47	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan

* End of Report

Reviewed & Authorized by Payal Patel

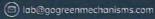
Page No: 2/2

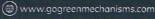
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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28.01.2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

: Lab/PN/3855D/79J/04

: Weather Monitoring Station

: Meteorological Parameter

Sampling Start Date

Sampling End Date Sample Receipt Date : 18-02-2025 : 19-02-2025

: 21-02-2025

Sample Location

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

Wind Direction= E

Reviewed & Authorized by

Gyanvati Shukla



Reviewed & Authorized by

Payal Patel

----End of Report----

Page 1 of 1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 03/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3868D/79K/01

Hasanali Roshanali Sunasara

Ambient Air Bankuri Road

Temp-31°C/ Humidity-42% Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: 20/02/2025 22/02/2025 24/02/2025-01/03/2025

19/02/2025

rs: 24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	76.29	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	44.57	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.05	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.25	µд/т3	IS 5182- Part 6	80
5	Ozone (O3)	24.89	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.67	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3868D/79K/02

M/s Moil Limited

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

Reporting Date: 03/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Lab/PN/3868D/79K/02

Hasanali Roshanali Sunasara

Ambient Air Beldongri Road

Temp-31°C/ Humidity-42%

Sampling Start Date:

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

Total Sampling hours:

19/02/2025 20/02/2025 22/02/2025

24/02/2025-01/03/2025

Env. CondSam	ple Receipt:	Satisfactory			Env. CondTesting:	25±5°C
Sr.No	Parameter	S	Results	Unit	Test Method	

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	77.98	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.57	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	14.59	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	28.69	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.44	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.66	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 03/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3868D/79K/03

Hasanali Roshanali Sunasara

Ambient Air Near Satak Road

Temp-31°C/ Humidity-42%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

19/02/2025

20/02/2025 22/02/2025

24/02/2025-01/03/2025

25±5°C

ir.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	78.81	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	45.41	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	19.91	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	29.72	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	21.51	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.27	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 03/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3868D/79K/04

Hasanali Roshanali Sunasara

Ambient Air Near Pit No. 2

Temp-31°C/ Humidity-42% Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

19/02/2025

20/02/2025 22/02/2025

24/02/2025-01/03/2025

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	75.01	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.07	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.80	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	26.18	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	21.82	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.05	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3868D/79K/05

M/s Moil Limited

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

Reporting Date: 03/03/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

19/02/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3868D/7 9K/05A	Bankuri Road	Day Time	dB(A)Leq	IS 4758	54.2	-
2	Lab/PN/3868D/7 9K/05B	Beldongri Road	Day Time	dB(A)Leq	IS 4758	55.6	2.7
3	Lab/PN/3868D/7 9K/05C	Near Satak Road	Day Time	dB(A)Leq	IS 4758	53.9	(S a)
4	Lab/PN/3868D/7 9K/05D	Near Pit No. 2	Day Time	dB(A)Leq	IS 4758	56.6	

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

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-- End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 03/03/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3868D/79K/06

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Ground Water

Sample Description: Sample Quantity:

Mine Borewell

Sample Condition:

3.5 L Satisfactory Sampling Date:

Sample Receipt Date: 22/02/2025

Analysis Start Date: Analysis End Date:

Sampling Method:

Parking.

20/02/2025

24/02/2025

01/03/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	160.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	52.10	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	58.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.73	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	26.73	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeabl
8	pH at 25 °C	7.66		IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	30.59	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	311.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	170.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 03/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3868D/79K/06

Sampling Date:

20/02/2025

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara Ground Water

Sample Receipt Date: Analysis Start Date:

22/02/2025 24/02/2025

Sample Description:

Mine Borewell

Analysis End Date: Sampling Method:

01/03/2025 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	1.0	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.06	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3868D/79K/07

M/s Moil Limited

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

Reporting Date: 03/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3868D/79K/07

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara

Waste Water

Sample Description: Sample Quantity:

Mine Pit No. 2 5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

01/03/2025 GGMPL/WI/27A

20/02/2025

22/02/2025

24/02/2025

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.68	-	IS 3025- Part 11	5753
2	Total Suspended Solids (TSS)	30.00	mg/L	APHA 24th Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	*
4	Chemical Oxygen Demand (COD)	100.00	mg/L	APHA 24th Edn 5220 B	
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	30	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	-

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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 03/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3868D/79K/08

20/02/2025

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Receipt Date:

22/02/2025

Sample Type:

Waste Water

Analysis Start Date:

Sampling Date:

24/02/2025

Sample Description:

Mine Discharge Water

Analysis End Date: Sampling Method: 01/03/2025 GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

r.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.52	-	IS 3025- Part 11	•
2	Total Suspended Solids (TSS)	28.00	mg/L	APHA 24th Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	60.00	mg/L	APHA 24th Edn 5220 B	
5	Dissolved Oxygen	4.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	19	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	

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

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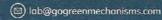
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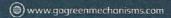
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CERTIFICATE OF ANALYSIS

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

Reporting Date: 04-03-2025

M/s Moil Limited

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



SAMPLE DETAILS

Sample Location

Sampling Instrument Sample Type

: Lab/PN/3868D/79K/09

: Weather Monitoring Station : Meteorological Parameter

: Bankuri Road

Sampling Start Date

Sampling End Date

: 20-02-2025 Sample Receipt Date

: 22-02-2025

: 19-02-2025

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

Wind Direction= E

Reviewed & Authorized by

Gyanvati Shukla

Reviewed & Authorized by

Payal Patel

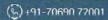
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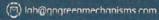
Page 1 of 1

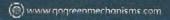
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Doyal Estate, National Highway No. 8, Opp APMC Market Gate 1, Jetalpur, District Ahmedahad 382426, Lalignat 1991/A







CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3868D/79K/10

Reporting Date: 04-03-2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type Sample Location : Lab/PN/3868D/79K/10

: Weather Monitoring Station

: Meteorological Parameter

: Beldongri Road

Sampling Start Date

Sampling End Date

Sampling End Date
Sample Receipt Date

te : 20-02-2025

: 22-02-2025

: 19-02-2025

Valentin design			State of the latest and the latest a	A Transport of the Control of the Co	
Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	1.39	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	42.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	31.0	°C	GGMPL/SOP/MP/01	

Wind Direction= E

Reviewed & Authorized by

Gyanvati Shukla

eviewed & Authorized by

Payal Patel

Page 1 of 1

----End of Report----

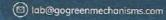
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3868D/79K/11

M/s Moil Limited

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

Reporting Date: 04-03-2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3868D/79K/11

: Weather Monitoring Station

: Meteorological Parameter

: Near Satak Road

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 19-02-2025 : 20-02-2025

: 22-02-2025

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

Wind Direction= E

Reviewed & Authorized by

Gyanvati Shukla

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3868D/79K/12

Reporting Date: 04-03-2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID

: Lab/PN/3868D/79K/12

Sampling Start Date

: 19-02-2025

Sampling Instrument

: Weather Monitoring Station

Sampling End Date

: 20-02-2025

Sample Type

: Meteorological Parameter

Sample Receipt Date

: 22-02-2025

Sample Location

: Near Pit No. 2

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

Wind Direction= E

Reviewed & Authorized by

Gvanvati Shukla

----End of Report----

Payal Patel

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 04/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3869D/79L/01

Hasanali Roshanali Sunasara

Ambient Air Near Mine Pit

Temp-31°C/ Humidity-58%

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

19/02/2025

20/02/2025 22/02/2025

24/02/2025-03/03/2025

74

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	78.97	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.82	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.37	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	20.05	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.75	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.44	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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Reviewed & Authorized by Payal Patel

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 04/03/2025



SAMPLE DETAILS

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

Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond. Sample Receipt: Lab/PN/3869D/79L/02 Hasanali Roshanali Sunasara

Ambient Air

Near East Boundary Wall Temp-31°C/ Humidity-58%

Satisfactory

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

Analysis start- End Date: Total Sampling hours:

Fnv. Cond.-Testing:

19/02/2025 20/02/2025

25±5°C

22/02/2025 24/02/2025-03/03/2025

24

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	79.13	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.07	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	19.22	µg/m3	IS 5182 Part 2	80
4	Oxides of Nitrogen	21.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	20.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.44	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 04/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3869D/79L/03

Hasanali Roshanali Sunasara

Ambient Air

Near West Boundry Wall Temp-31°C/ Humidity-58%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 19/02/2025

20/02/2025 22/02/2025

24/02/2025-03/03/2025

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	67.77	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.15	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	14.82	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	20.97	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.75	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.66	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3869D/79L/04

M/s Moil Limited

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

Reporting Date: 04/03/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3869D/79L/04

Hasanali Roshanali Sunasara Ambient Air

Near South Boundry Wall Temp-31°C/ Humidity-58%

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 19/02/2025 20/02/2025

22/02/2025 24/02/2025-03/03/2025

24/02/2025-03/03/20 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.29	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.07	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	19.31	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.82	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.66	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.99	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards..

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

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Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 04/03/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Hasanali Roshanali Sunasara

Sampling Date:

Sample Description:

19/02/2025

Source Noise

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

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

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End of Report -

Reviewed & Authorized by Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 04/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3869D/79L/06

Sample Drawn By: Sample Type: Hasanali Roshanali Sunasara

Ground Water

Sample Description:

Hiwra Village Borewell

Sample Quantity: Sample Condition: 3.5 L Salisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

22/02/2025 24/02/2025 03/03/2025

GGMPL/WI/27A

20/02/2025

Sealed

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Sr. No	Parameters	Results	Unit	Test Method	AL

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	145.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	60.12	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	93.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.22	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	29.16	mg/L	APHA 24th Edn 3500 Mg B	30	100
1	Udour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.62	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	42.57	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	387.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	270.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

TO 1-18

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 04/03/2025



TC 7072

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/3869D/79L/06

Hasanali Roshanali Sunasara

Ground Water

Sample Type: Sample Description:

Hiwra Village Borewell

3.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

03/03/2025 GGMPL/WI/27A

20/02/2025

22/02/2025

24/02/2025

Sea

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.18	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

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

TO 148

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3869D/79L/07

M/s Moil Limited

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

Reporting Date: 04/03/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/3869D/79L/07

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Ground Water

Sample Description:

Bankuri Village Borewell

3.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 20/02/2025

22/02/2025 24/02/2025

03/03/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	140.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	54.10	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	86.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.30	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	28.18	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	.∓a:	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.45		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	33.16	mg/L ·	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	364.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	251.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3869D/79L/07

M/s Moil Limited

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

Reporting Date: 04/03/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3869D/79L/07

Sampling Date:

20/02/2025 22/02/2025

Sample Drawn By: Sample Type:

Hasanali Roshanali Sunasara Ground Water

Sample Receipt Date: Analysis Start Date:

24/02/2025 03/03/2025

Sample Description:

Bankuri Village Borewell

Analysis End Date: Sampling Method:

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	2.93	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3869D/79L/08

M/s Moil Limited

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

Reporting Date: 04/03/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/3869D/79L/08

Sample Drawn By:

Hasanali Roshanali Sunasara

Sample Type:

Waste Water

Sample Description:

Mine Discharge Water

Sample Quantity:

5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 20/02/2025

22/02/2025 24/02/2025

03/03/2025 GGMPL/WI/27A

Sealed

Sr Nn	Parameters	Results	Linit	Tost Method	Norm
1	pH at 25 °C	7.68		IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	17.00	mg/L	APHA 24th Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	E
4	Chemical Oxygen Demand (COD)	88.00	mg/L	APHA 24th Edn 5220 B	
5	Dissolved Oxygen	5.60	mg/L	IS 3025- Part 38	·
6	BOD at 27 o C for 3 days	27	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	Tig.

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 04.03.2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID Sampling Instrument : Lab/PN/3869D/79L/09 : Weather Monitoring Station Sampling Start Date

: 19-02-2025

Sample Type

: Meteorological Parameter

Sampling End Date

: 20-02-2025

Sample Location

: Near Mine Pit

: 22-02-2025 Sample Receipt Date

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

Wind Direction= NE

Reviewed & Authorized by

Gyanvati Shukla



Reviewed & Authorized by

Payal Patel

----End of Report----

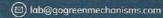
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CERTIFICATE OF ANALYSIS

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

Reporting Date: 04.03.2025

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument

Sample Type Sample Location : Lab/PN/3869D/79L/10

: Weather Monitoring Station

: Meteorological Parameter : Near East Boundary Wall

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 19-02-2025 : 20-02-2025

: 22-02-2025

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

Wind Direction= NE

Reviewed & Authorized by

Gyanvati Shukla

*

Payal Patel

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----End of Report----

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3869D/79L/11

Reporting Date: 04.03.2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID

Sample Location

Sampling Instrument Sample Type

: Lab/PN/3869D/79L/11

: Weather Monitoring Station : Meteorological Parameter

: Near West Boundary Wall

Sampling Start Date

Sampling End Date Sample Receipt Date : 19-02-2025

: 20-02-2025 : 22-02-2025

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

Wind Direction= NE

Reviewed & Authorized by

Gyanvati Shukla



Reviewed & Authorized by

Payal Patel

Page 1 of 1

---- End of Report----

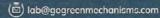
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l lead Office & Lab

Drayal Estate, National Highway No. 8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedahad-382426 Gujurut, INDIA.







(www.gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date: 04.03.2025

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument

Sample Type Sample Location : Lab/PN/3869D/79L/12

: Weather Monitoring Station

: Meteorological Parameter

: Near South Boundary Wall

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 19-02-2025

: 20-02-2025

: 22-02-2025

				Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	58.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	31.0	°C	GGMPL/SOP/MP/01

Wind Direction=N E

Reviewed & Authorized by

Gyanvati Shukla

Reviewed & Authorized by

Payal Patel

Page 1 of 1

----End of Report----

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