

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/4193D/06A/01

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



TC-707

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/4193D/06A/01 Shailesh Pandey Ambient Air

Near Nagra Plant Temp-30°C/ Humidity-45%

Satisfactory

Sampling Start Date: 25/03/2025 Sampling End Date: 26/03/2025 Sample Receipt Date: 28/03/2025

Analysis start- End Date:

29/03/2025-04/04/2025

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

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	76.54	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)	18.60	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	30.69	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.73	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.79	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= Qu

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Reviewed & Authorized by Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4193D/06A/02

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/4193D/06A/02

Shailesh Pandey Ambient Air

Near Vertical Shaft-1 Temp-30°C/ Humidity-45%

Satisfactory

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

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

25/03/2025 26/03/2025 28/03/2025

29/03/2025-04/04/2025

25±5°C

31.Nu	Parameters	Results	Unit	l est Method	Norms
1	Particulate Matter (PM10)	70.79	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.10	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	28.64	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.30	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.75	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4193D/06A/03

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling. Env. Cond. Sample Receipt: Lab/PN/4193D/06A/03

Shailesh Pandey Ambient Air Near Workshop

Temp-30°C/ Humidity-45%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Lotal Sampling hours: Env. Cond.-Testing.

25/03/2025

26/03/2025 28/03/2025

29/03/2025-04/04/2025

25±5°C

Sr.No	Parameters	Kesults	Unit	Test Method	Norms
1	Particulate Matter (PM10)	74.63	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.37	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	33.27	µд/т3	TS 5182- Part 6	80
5	Ozone (O3)	15.24	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.10	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQI (QI = 2 5)	Jig/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4193D/06A/04

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/4193D/06A/04

Shailesh Pandey Ambient Air

Near Ukwa Village Temp-30°C/ Humidity-45%

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

25/03/2025 26/03/2025

28/03/2025 29/03/2025-04/04/2025

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.65	μ g/m 3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.75	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	26.42	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.17	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.44	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.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4193D/06A/05

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Shailesh Pandey

Sampling Date:

Sample Description:

25/03/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/4193D/0 6A/05A	Near Nagra Plant	Day Time	dB(A)Leq	IS 4758	67.1	-
2	Lab/PN/4193D/0 6A/05B	Near Vertical Shift-1	Day Time	dB(A)Leq	IS 4758	65.4	_
3	Lab/PN/4193D/0 6A/05C	Near Workshop	Day Time	dB(A)Leq	IS 4758	63.1	
4	Lab/PN/4193D/0 6A/05D	Near Ukwa Village	Day Time	dB(A)Leq	IS 4758	68.3	-

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

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P. B. Rotes

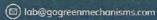
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4193D/06A/06

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05.04.2025



SAMPLE DETAILS

Lab ID Sampling Instrument Sample Type

Sample Location

: Lab/PN/4193D/06A/06

: Weather Monitoring Station

: Meteorological Parameter

. Near Nagra Plant

Sampling Start Date : 25.03.2025

Sampling End Date : 26.03.2025

Sample Receipt Date : 28.03.2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

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Gyanvati Shukla

Payal Patel

Page 1 of 1

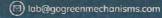
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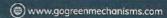
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4193D/06A/07

Reporting Date: 05.04.2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID

: Lab/PN/4193D/06A/07

Sampling Start Date

: 25.03.2025

Sampling Instrument

: Weather Monitoring Station

Sampling End Date

: 26.03.2025

Sample Type

: Meteorological Parameter

Sample Receipt Date

: 28.03.2025

Sample Location

: Near Vertical Shaft-1

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

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Payal Patel

----End of Report----

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4193D/06A/08

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05.04.2025



SAMPLE DETAILS

Lab ID

Sampling Instrument Sample Type Sample Location

: Lab/PN/4193D/06A/08

: Weather Monitoring Station

: Meteorological Parameter

: Near Workshop

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 25.03.2025

: 26.03.2025

: 28.03.2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	30.0	°C	GGMPL/SOP/MP/01	

Reviewed & Authorized by

Gyanvati Shukla



P. B. Rye ewed & Authorized by

Payal Patel

Page 1 of 1

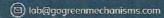
----End of Report----

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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/4193D/06A/09

Reporting Date: 05.04.2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID

: Lab/PN/4193D/06A/09

Sampling Start Date

: 25.03.2025

Sampling Instrument

: Weather Monitoring Station

Sampling End Date

: 26.03.2025

Sample Type

: Meteorological Parameter

Sample Receipt Date

: 28.03.2025

Sample Location

: Near Ukwa Village

		Annual Control of the	and the second s	
Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm -	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

Reviewed & Authorized by

Gyanvati Shukla



Payal Patel

----End of Report--

Page 1 of 1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4193D/06A/10

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/4193D/06A/10

Sample Drawn By:

Shailesh Pandey

Sample Type: Sample Description: Drinking Water Mine Office

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Date:

26/03/2025

Sample Receipt Date: Analysis Start Date: 28/03/2025 29/03/2025

Analysis End Date: Sampling Method:

04/04/2025 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	79.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	40.48	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	50.98	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	15.31	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	- 14 15	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.63	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	25.29	mg/L	APHA 24th Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	218.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	164.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B)	1	5

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/4193D/06A/10

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

3.5 L

Lab/PN/4193D/06A/10

Shailesh Pandey **Drinking Water** Mine Office

Satisfactory

Sampling Date:

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

Sampling Method: Packing:

26/03/2025

28/03/2025 29/03/2025 04/04/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	0.1	0.3
15	Fluoride	0.23	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	1.23	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 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/4193D/06A/11

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4193D/06A/11

Sample Drawn By:

Shailesh Pandey

Sample Type:

Sample Description: Sample Quantity:

3.5 L

Sample Condition:

Ground Water

New Mine Colony Pump House

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

26/03/2025

28/03/2025 29/03/2025 04/04/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	116.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	52.50	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	47.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.46	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	13.61	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	7.43		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	32.28	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	274.00	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	187.00	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/4193D/06A/11

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Shailesh Pandey

Sample Type:

Ground Water

Lab/PN/4193D/06A/11

Sample Description: Sample Quantity:

New Mine Colony Pump House

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

26/03/2025

28/03/2025

29/03/2025

04/04/2025

13 14	Turhidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	
14	Trop			COLUMN ATOM COMPANY OF	T	5
Mark III	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	2.68	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/4193D/06A/12

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4193D/06A/12

Sample Drawn By:

Shailesh Pandey

Sample Type: Sample Description: Drinking Water Officer Colony No.4

Sample Quantity: Sample Condition:

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

26/03/2025

28/03/2025 29/03/2025

04/04/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	132.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	48.50	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	54.98	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	21.14	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	- 1	IS 3025 Part 5	Agreeabl	le Agreeable
7	pH at 25 °C	7.35		IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	34.87	mg/L	APHA 24th Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	304.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	208.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B)	1	5

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/4193D/06A/12

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/4193D/06A/12

Sample Drawn By:

Shailesh Pandey

Sample Type:

Drinking Water

Sample Description: Sample Quantity:

Officer Colony No.4

Sample Condition:

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

26/03/2025 28/03/2025 29/03/2025

04/04/2025 GGMPL/WI/27A

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	0.1	0.3
15	Fluoride	0.44	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.68	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 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/4193D/06A/13

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4193D/06A/13

Sample Drawn By:

Shailesh Pandey Drinking Water

Sample Type: Sample Description:

Rest House

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

26/03/2025 28/03/2025

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

29/03/2025 04/04/2025

Sampling Method:

GGMPL/WI/27A

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	84.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	32.87	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	36.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	15.07	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable		IS 3025 Part 5	Agreeabl	le Agreeable
7	pH at 25 °C	7.39	(2)	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	21.27	mg/L	APHA 24th Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	202.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	144.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B)	1	5

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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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4193D/06A/13

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/4193D/06A/13 Shailesh Pandey Sample Drawn By: Drinking Water Sample Type: Sample Description: Rest House 3.51 Sample Quantity: Sample Condition: Satisfactory

Sampling Date: 26/03/2025 Sample Receipt Date: 28/03/2025 Analysis Start Date: 29/03/2025 Analysis End Date: 04/04/2025 Sampling Method: GGMPL/WI/27A

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	0.1	0.3
15	Fluoride	0.42	mg/L	ΛΡΗΛ 24th Edn 4500 F D	1	1.5
16	Nitrate	2.68	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total collform	Absent	per 100ml	APHA 9222 A&B 24th Edition	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

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

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/01

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt.

Benzo(a) pyrene

Nickel as Ni

Arsenic as As

Lead

9

11

12

Carbon Monoxide (CO)

Lab/PN/4194D/06B/01

Shailesh Pandey

Ambient Air

Near Vertical Shaft-II

Temp-30°C/ Humidity-45%

3allsfactury

Sampling Start Date:

Sampling End Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing.

Is 5182- Part 12

IS 5182- Part 10

Method IO 3.4

Method IO 3.4

Method IO 3.4

25/03/2025 26/03/2025

211/03/2025

29/03/2025-04/04/2025

24 25±5°€

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.45	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)	15.77	μg/m3	IS 5182-Part 2	80
4	Ovides of Nitrogen	28.07	Įıg/m3	TS 5187- Part 6	80
5	Ozone (O3)	16.79	μg/m3	IS 5182- Part 9	180
6	Ammonla (NH3)	13.44	μg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5

ng/m3

mg/m3

ng/m3

ng/m3

µg/m3

BQL (QL=0.5)

1.11

BQL (QL=5)

BQL (QL=1)

BQL (QL=0.001)

Norms As Per National Ambient Air Quality Standards.

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

Reviewed & Authorized by Gyanvati Shukla Quantification Avitorit

Reviewed & Authorized by Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/02

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist, Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Lab/PN/4194D/06B/02

Shailesh Pandey Ambient Air

Near Substation

Temp-30°C/ Humidity-45%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

29/03/2025-04/04/2025

25±5°C

25/03/2025

26/03/2025

28/03/2025

		_
Env.	CondSample	Receipt:

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	74.37	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.91	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.33	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	32.32	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.35	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.13	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/03

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



25/03/2025

26/03/2025

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/4194D/06B/03

Shailesh Pandey Ambient Air

Near Admin Building Temp-30°C/ Humidity-45%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Total Sampling hours: Env. Cond.-Testing:

28/03/2025 Analysis start- End Date: 29/03/2025-04/04/2025

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	77.85	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.99	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	20.22	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	36.03	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.93	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.10	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µд/т3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/04

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/4194D/06B/04

Shailesh Pandey Ambient Air Near Weigh Bridge

Temp-30°C/ Humidity-45%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

25/03/2025

26/03/2025 28/03/2025

29/03/2025-04/04/2025

24 25±5°C

- 41			124 144	SECURITY OF THE SECURITY OF TH	
Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	73.46	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.58	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	33.74	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.99	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.75	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)	0.79	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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Reviewed & Authorized by Payal Patel

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/05

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Shailesh Pandey

Sampling Date:

Sample Description:

25/03/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/4194D/0 6B/05A	Near Vertical Shaft-II	Day Time	dB(A)Leq	IS 4758	61.4	-
2	Lab/PN/4194D/0 6B/05B	Compressor House-II	Day Time	dB(A)Leq	IS 4758	65.1	-
3	Lab/PN/4194D/0 N 6B/05C	Near Jack Hammer Drill (1650 Level)	Day Time	dB(A)Leq	IS 4758	61.8	-
4	Lab/PN/4194D/0 6B/05D	Dumper Loaded At Workshop	Day Time	dB(A)Leq	IS 4758	66.3	

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

Reviewed & Authorized by

Gyanvati Shukla

--- End of Report ---

P. B. RUE

Reviewed & Authorized by Payal Patel

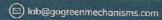
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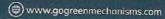
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/06

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 04.04.2025



SAMPLE DETAILS

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/4194D/06B/06

: Weather Monitoring Station

: Meteorological Parameter

: Near Vertical Shaft-II

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 25.03.2025

: 26.03.2025

: 28.03.2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	30.0	°C	GGMPL/SOP/MP/01	

Reviewed & Authorized by

Gyanvati Shukla

Reviewed & Authorized by

Payal Patel

----End of Report----

Page 1 of 1

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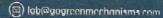
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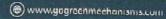


Head Office & I ah

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







CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/07

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 04.04.2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type Sample Location : Lab/PN/4194D/06B/07

: Weather Monitoring Station

: Meteorological Parameter

: Near Substation

Sampling Start Date

Sampling End Date

: 25.03.2025 : 26.03.2025

Sample Receipt Date

: 28.03.2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	30.0	°C	GGMPL/SOP/MP/01	

Reviewed & Authorized by

Gyanvati Shukla



Payal Patel

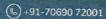
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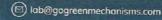
Page 1 of 1

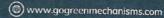
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/08

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 04.04.2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/4194D/06B/08

: Weather Monitoring Station

: Meteorological Parameter

: Near Admin Building

Sampling Start Date

Sampling End Date Sample Receipt Date : 25.03.2025 : 26.03.2025

: 28.03.2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

Reviewed & Authorized by

Gyanvati Shukla



Reviewed & Authorized by

Payal Patel

----End of Report----

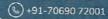
Page 1 of 1

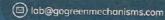
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Dayal Estate. National Highway No. 8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426.







CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/09

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 04.04.2025



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/4194D/06B/09

: Weather Monitoring Station

: Meteorological Parameter

: Near Weigh Bridge

Sampling Start Date

: 25.03.2025

Sampling End Date

: 26.03.2025

Sample Receipt Date

: 28.03.2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01	
4	Temperature	30.0	°C	GGMPL/SOP/MP/01	

Reviewed & Authorized by

Gyanvati Shukla

AHMEDABAD

Payal Patel

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/10

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4194D/06B/10

Sample Drawn By: Sample Type:

Shailesh Pandey Ground Water

Sample Description:

Near Vertical Shaft-II (Open Dugwell)

Sample Quantity:

Sample Condition:

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

26/03/2025

28/03/2025 29/03/2025

04/04/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method A	d_	PL
1	Alkalinity as CaCO3	151.00	mq/L	API IA 21th Edn 2320 D 2	.00	G00
2	Calcium as Ca	60.12	ma/L	APHA 24th Edn 3500 Ca B 7	5	200
3	Chloride	63.98	mg/L	IS 3025- Part 32 2	50	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4 5		15
5	Fluoride	0.35	mg/L	APHA 24th Edn 4500 F D 1	.0	1.5
6	Magnesium as Mg	17.74	mg/L	APHA 24th Edn 3500 Mg B 3	0	100
7	Odour	Agreeable	-	IS 3025- Part 5 A	greeable	∧greeable
8	pH at 25 °C	7.56	4	IS 3025- Part 11 6	5-X 5	No relaxation
9	Sulphate	25.67	mg/L	APHA 24th Edn 4500 SO4 E 2	00	400
10	Total Dissolved Solids (TDS)	332.00	mg/L	APHA 24th Edn 2540 C 5	00	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D N	IS	NS
12	Total Hardness as CaCO3	223.00	mg/L	APHA 24th Edn 2340 C 29	00	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 HAN

Reviewed & Authorized by Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/10

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4194D/06B/10

Sample Drawn By:

Shailesh Pandey

Sample Type:

Ground Water

Near Vertical Shaft-II (Open Dugwell)

Sample Quantity: Sample Condition:

Sample Description:

Satisfactory

3.5 L

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

26/03/2025 28/03/2025

29/03/2025

04/04/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Parameters Results Unit Test		Test Method	est Method AL	
13	Turbidity	BQL (QL=0.1)	NIU	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	1.33	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

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

Reviewed & Authorized by

Tantan kumar & Dr. Haragobinda Srichandan

Reviewed & Authorized by Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/11

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4194D/06B/11

Sample Drawn By:

Shailesh Pandey

Sample Type: Sample Description:

Waste Water Mine Seapage Water

Sample Quantity:

Sample Condition:

4.3 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

28/03/2025 29/03/2025

26/03/2025

04/04/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.41	-	IS 3025- Part 11	=
2	Total Suspended Solids (TSS)	27.00	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)	72.00	mg/L	APHA 24th Edn 5220 B	
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	20	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

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P.B.Py

Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/12

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4194D/06B/12

Sample Drawn By:

Shailesh Pandey

Sample Type:

Waste Water

Sample Description: Sample Quantity: STP Outlet

Sample Condition:

4.3 L Satisfactory Sampling Date:

26/03/2025

Sample Receipt Date:

28/03/2025

Analysis Start Date:

29/03/2025

Analysis End Date:

03/04/2025

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.56	<u>=</u> 50	IS 3025- Part 11	NS
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	NS
4	Chemical Oxygen Demand (COD)	44.00	mg/L	APHA 24th Edn 5220 B	NS
5	Dissolved Oxygen	4.10	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	11	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

Reviewed & Authorized by Gyanvati Shukla AHMEDABAD PV

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4194D/06B/13

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4194D/06B/13

Sample Drawn By:

Shailesh Pandey

Sample Type:

Waste Water

Sample Description:

ETP Outlet

Sample Quantity: Sample Condition:

4.3 L

Satisfactory

Sampling Date:

26/03/2025

Sample Receipt Date:

28/03/2025

Analysis Start Date:

29/03/2025

Analysis End Date: Sampling Method:

04/04/2025

GGMPL/WI/27A

Packing:

Sealed

sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH al 25 °C	1.32	=	IS 3025- Part 11	5.5 To 9.0
2	Total Suspended Solids (TSS)	10.00	mg/L	APHA 24th Edn 2510 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
1	Chemical Oxygen Demand (COD)	36.00	mg/L	API IA 24th Edn 5220 B	250
5	Dissolved Oxygen	5.00	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	9.2	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

Reviewed & Authorized by Gyanvati Shukla

* - End of Report --

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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/4195D/06C/01

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/4195D/06C/01

Shailesh Pandey Ambient Air

Near Chindi Tala Village

Temp-30°C/ Humidity-45%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 25/03/2025 26/03/2025

28/03/2025

29/03/2025-04/04/2025

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.73	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.82	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	28.35	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.48	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.44	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)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

Reviewed & Authorized by Gyanvati Shukla Quantification Number

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/02

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/4195D/06C/02

Shailesh Pandey Ambient Air

Near Haul Road

Temp-30°C/ Humidity-45%

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 28/03/2025 29/03/2025-04/04/2025

25±5°C

25/03/2025

26/03/2025

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)	34.58	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.25	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	33.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.30	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.75	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)	µд/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/03

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/4195D/06C/03

Shailesh Pandey Ambient Air

Near Explosive Magzine

Temp-30°C/ Humidity-45% Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 25/03/2025

26/03/2025 28/03/2025

29/03/2025-04/04/2025

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.19	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	12.02	μg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	26.21	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.99	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.41	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μ g /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/Li

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/04

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/4195D/06C/04

Shailesh Pandey Ambient Air

Near New Mine Colony Temp-30°C/ Humidity-45%

Satisfactory

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

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 25/03/2025 26/03/2025

26/03/2025 28/03/2025

29/03/2025-04/04/2025

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	73.25	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SU2)	16.54	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	31.11	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.24	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.79	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 Lim

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AHMEDABAD

Reviewed & Authorized by Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/05

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Shailesh Pandey

Sampling Date:

Sample Description:

25/03/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/4195D/0 6C/05A	Near Chindi Tola Village	Day Time	dB(A)Leq	IS 4758	62.7	-
2	Lab/PN/4195D/0 6C/05B	Near Pit Office 2 vertical Shaft	Day Time	dB(A)Leq	IS 4758	64.2	
3	Lab/PN/4195D/0 6C/05C	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	63.1	
4	Lab/PN/4195D/0 6C/05D	Haul Road	Day Time	dB(A)Leq	IS 4758	67.2	_

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

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Reviewed & Authorized by Payal Patel

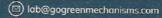
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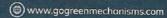
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/06

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05.04.2025



SAMPLE DETAILS

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/4195D/06C/06

: Weather Monitoring Station

: Meteorological Parameter

: Near Chindi Tala Village

Sampling Start Date

: 25.03.2025 : 26.03.2025

Sampling End Date Sample Receipt Date

: 28.03.2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

Reviewed & Authorized by

Gyanvati Shukla

Authorized by

Payal Patel

----End of Report----

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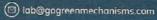
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/07

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05.04.2025



SAMPLE DETAILS

Sample Type

Sampling Instrument

Sample Location

: Lab/PN/4195D/06C/07

: Weather Monitoring Station

: Meteorological Parameter

: Near Haul Road

Sampling Start Date

Sampling End Date

: 26.03.2025

Sample Receipt Date : 28.03.2025

: 25.03.2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

Reviewed & Authorized by

Gyanyati Shukla



Payal Patel

----End of Report----

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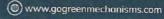
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/08

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05.04.2025



SAMPLE DETAILS

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/4195D/06C/08

: Weather Monitoring Station

: Meteorological Parameter

: Near Explosive Magzine

Sampling Start Date

Sampling End Date

: 25.03.2025 : 26.03.2025

Sample Receipt Date

: 28.03.2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

Reviewed & Authorized by

Gyanvati Shukla



Reviewed & Authorized by

Payal Patel

----End of Report----

Page 1 of 1

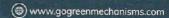
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/09

Reporting Date: 05.04.2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type Sample Location : Lab/PN/4195D/06C/09

: Weather Monitoring Station

: Meteorological Parameter

: Near New Mine Colony

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 25.03.2025

: 26.03.2025

: 28.03.2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.16	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	45.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

Gyanvati Shukla



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Payal Patel

--- End of Report----

Page 1 of 1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/10

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/4195D/06C/10

Sample Drawn By: Sample Type:

Shailesh Pandey Ground Water

Sample Description:

Chindi tala Village Open Dugwell

Sample Quantity: Sample Condition: 3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

GGMPL/WI/27A

Sealed

26/03/2025

28/03/2025

29/03/2025

04/04/2025

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	82.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	28.86	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	29.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQI (QI = 2 5)	CII	IS 3025- Part 4	5	15
5	Fluoride	0.23	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.01	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.23	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	16.48	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	169.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	5.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	142.00	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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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/10

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4195D/06C/10

Sample Drawn By:

Shailesh Pandey Ground Water

Sample Type: Sample Description:

Chindi tala Village Open Dugwell

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

26/03/2025 Sample Receipt Date: 28/03/2025

Analysis Start Date: Analysis End Date:

29/03/2025 04/04/2025

Sampling Method:

GGMPL/WI/27A

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	0.22	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

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

Reviewed & Authorized by Payal Patel

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/11

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4195D/06C/11

Sample Drawn By: Sample Type:

Shailesh Pandey Ground Water

Sample Description:

Sample Quantity: Sample Condition: Dugwell Near Pit Office

3.5 L Satisfactory Sampling Date:

26/03/2025 Sample Receipt Date: 28/03/2025

Analysis Start Date: Analysis End Date: Sampling Method:

29/03/2025 04/04/2025 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	85.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	36.87	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	42.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.04	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	e Agreeable
8	pH at 25 ℃	7.48		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	23.76	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	212.00	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	158.00	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/4195D/06C/11

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4195D/06C/11

Shailesh Pandey

Sample Drawn By: Sample Type:

Sample Description:

Ground Water Dugwell Near Pit Office

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

26/03/2025

28/03/2025 29/03/2025 04/04/2025

GGMPL/WI/27A b

Packing:	Seale
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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	0.79	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 Report

Reviewed & Authorized by Payal Patel

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/12

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Lab/PN/4195D/06C/12

Sample Drawn By:

Shailesh Pandey

Sample Type:

Ground Water

Sample Description:

Dugwell Near Haul Road-II

Sample Quantity: Sample Condition: 3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

APHA 24th Edn 2340 C

Analysis End Date: Sampling Method:

Packing:

26/03/2025

28/03/2025 29/03/2025

04/04/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	87.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	38.88	mq/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	47.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 24th Edn 4500 Γ D	1.0	1.5
6	Magnesium as Mg	15.80	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	15 3025- Pärt 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.41		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.64	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	228.00	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

AL & PL As Per Is 10500.

Total Hardness as CaCO3

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

162.00

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mg/L

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200

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4195D/06C/12

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Sample Quantity:

Shailesh Pandey Ground Water

3.5 L

Sample Condition:

Lab/PN/4195D/06C/12

Dugwell Near Haul Road-II

Satisfactory

Sampling Date:

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

Sampling Method: Packing:

26/03/2025

28/03/2025 29/03/2025 04/04/2025 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	0.78	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/4195D/06C/13

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 05/04/2025



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/4195D/06C/13

Sampling Date: Sample Receipt Date: 26/03/2025

Sample Drawn By: Sample Type:

Shailesh Pandey Waste Water 28/03/2025 29/03/2025

Sample Description:

Mine Seapage Vertical-II

Analysis Start Date: 29/03/ Analysis End Date: 04/04/ Sampling Method: GGMPI

04/04/2025 GGMPL/WI/27A

Sample Quantity:

4.3 L

Packing:

Sealed

Sample Condition:

Satisfactory

Sr.No **Parameters** Results Unit Test Method Norm pH at 25 °C 7.56 IS 3025- Part 11 1 Total Suspended Solids (TSS) 23.00 APHA 24th Edn 2540 D mg/L 3 Oil and Grease BQL (QL=2) mg/L IS 3025- Part 39 Chemical Oxygen Demand (COD) 24.00 mg/L APHA 24th Edn 5220 B 5 Dissolved Oxygen 4.6 mg/L IS 3025- Part 38 BOD at 27 o C for 3 days 6.0 6 mq/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

Guyan

Reviewed & Authorized by Gyanvati Shukla



Reviewed & Authorized by Payal Patel

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