

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4193D/06A/01

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/01	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Nagra Plant	Analysis start- End Date:	29/03/2025-04/04/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	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= Quantification Limit

  
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Gyanvati Shukla



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## CERTIFICATE OF ANALYSIS

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

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/02	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	29/03/2025-04/04/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C


Sl.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.79	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.

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## CERTIFICATE OF ANALYSIS

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

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/03	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Workshop	Analysis start- End Date:	29/03/2025-04/04/2025
Env. Cond.-Sampling.	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond. Sample Receipt:	Satisfactory	Env. Cond.-Testing.	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	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	µg/m3	IS 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	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per National Ambient Air Quality Standards.

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## CERTIFICATE OF ANALYSIS

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

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/04	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Ukwa Village	Analysis start- End Date:	29/03/2025-04/04/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.65	µg/m3	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.

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



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## CERTIFICATE OF ANALYSIS

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Reporting Date: 05/04/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Shailesh Pandey

Sampling Date: 25/03/2025  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/4193D/06A/05A	Near Nagra Plant	Day Time	dB(A)Leq	IS 4758	67.1	-
2	Lab/PN/4193D/06A/05B	Near Vertical Shift-1	Day Time	dB(A)Leq	IS 4758	65.4	-
3	Lab/PN/4193D/06A/05C	Near Workshop	Day Time	dB(A)Leq	IS 4758	63.1	-
4	Lab/PN/4193D/06A/05D	Near Ukwa Village	Day Time	dB(A)Leq	IS 4758	68.3	-

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## CERTIFICATE OF ANALYSIS

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

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/06  
Sampling Instrument : Weather Monitoring Station  
Sample Type : Meteorological Parameter  
Sample Location : 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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## 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)



TC-7073

### 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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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 05.04.2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

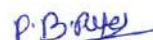
Lab ID	: Lab/PN/4193D/06A/08	Sampling Start Date	: 25.03.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.03.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.03.2025
Sample Location	: Near Workshop		

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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## 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		

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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## CERTIFICATE OF ANALYSIS

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

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/10	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Drinking Water	Analysis Start Date:	29/03/2025
Sample Description:	Mine Office	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	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	-	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 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	218.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	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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Payal Patel

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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:	Lab/PN/4193D/06A/10	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Drinking Water	Analysis Start Date:	29/03/2025
Sample Description:	Mine Office	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	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.

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/4193D/06A/11

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/11	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Ground Water	Analysis Start Date:	29/03/2025
Sample Description:	New Mine Colony Pump House	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	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	Agreeable	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 SO <sub>4</sub> 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 CaCO <sub>3</sub>	187.00	mg/L	APHA 24th Edn 2340 C	200	600

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M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/4193D/06A/11	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Ground Water	Analysis Start Date:	29/03/2025
Sample Description:	New Mine Colony Pump House	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.68	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

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/12	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Drinking Water	Analysis Start Date:	29/03/2025
Sample Description:	Officer Colony No.4	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	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	-	IS 3025 Part 5	Agreeable	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 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	304.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	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.

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M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/4193D/06A/12	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Drinking Water	Analysis Start Date:	29/03/2025
Sample Description:	Officer Colony No.4	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	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.

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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/13	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Drinking Water	Analysis Start Date:	29/03/2025
Sample Description:	Rest House	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	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	Agreeable	Agreeable
7	pH at 25 °C	7.39	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	21.27	mg/L	APHA 24th Edition (4500 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	202.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	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

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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/13	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Drinking Water	Analysis Start Date:	29/03/2025
Sample Description:	Rest House	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 l	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	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	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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Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/04/2025

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/4194D/06B/01	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Vertical Shaft-II	Analysis start- End Date:	29/03/2025-01/04/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C


Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.45	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	Oxides of Nitrogen	28.07	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.79	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.14	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per 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/4194D/06B/02

Reporting Date: 05/04/2025

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/4194D/06B/02	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Substation	Analysis start- End Date:	29/03/2025-04/04/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	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 Limit

  
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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/04/2025

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/4194D/06B/03	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Admin Building	Analysis start- End Date:	29/03/2025-04/04/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	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)	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/4194D/06B/04

Reporting Date: 05/04/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/4194D/06B/04	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	29/03/2025-04/04/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	73.46	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 Limit

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

Reporting Date: 05/04/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Shailesh Pandey

Sampling Date:

25/03/2025

Sample Description:

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 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=Quantification Limit

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 04.04.2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

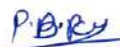
Lab ID	: Lab/PN/4194D/06B/06	Sampling Start Date	: 25.03.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.03.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.03.2025
Sample Location	: Near Vertical Shaft-II		

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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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/4194D/06B/07

Reporting Date: 04.04.2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

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

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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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 04.04.2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

Lab ID	: Lab/PN/4194D/06B/08	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 Admin Building		

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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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 04.04.2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

Lab ID	: Lab/PN/4194D/06B/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 Weigh Bridge		

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

---End of Report---

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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/04/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/4194D/06B/10	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Ground Water	Analysis Start Date:	29/03/2025
Sample Description:	Near Vertical Shaft-II (Open Dugwell)	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	151.00	mg/L	APHA 21th Edn 2320 D	200	600
2	Calcium as Ca	60.12	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	63.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.35	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	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.56	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.67	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	332.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	223.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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

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Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/04/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/4194D/06B/10	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Ground Water	Analysis Start Date:	29/03/2025
Sample Description:	Near Vertical Shaft-II (Open Dugwell)	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

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



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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/04/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/4194D/06B/11	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Waste Water	Analysis Start Date:	29/03/2025
Sample Description:	Mine Seepage Water	Analysis End Date:	04/04/2025
Sample Quantity:	4.3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.41	-	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 °C for 3 days	20	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	-

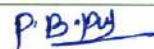
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/04/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/4194D/06B/12	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Waste Water	Analysis Start Date:	29/03/2025
Sample Description:	STP Outlet	Analysis End Date:	03/04/2025
Sample Quantity:	4.3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.56	-	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 °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



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#### Head Office & Lab

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/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	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Waste Water	Analysis Start Date:	29/03/2025
Sample Description:	ETP Outlet	Analysis End Date:	04/04/2025
Sample Quantity:	4.3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

SF.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.32	-	IS 3025- Part 11	5.5 To 9.0
2	Total Suspended Solids (TSS)	10.00	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	5.00	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °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



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/4195D/06C/01

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:	Lab/PN/4195D/06C/01	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Chindi Tala Village	Analysis start- End Date:	29/03/2025-04/04/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	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= Quantification Limit

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/04/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/4195D/06C/02	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Haul Road	Analysis start- End Date:	29/03/2025-04/04/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	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)	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/4195D/06C/03

Reporting Date: 05/04/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/4195D/06C/03	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near Explosive Magazine	Analysis start- End Date:	29/03/2025-04/04/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.19	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)	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/4195D/06C/04

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:	Lab/PN/4195D/06C/04	Sampling Start Date:	25/03/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	26/03/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/03/2025
Sample Description:	Near New Mine Colony	Analysis start- End Date:	29/03/2025-04/04/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-45%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	73.25	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	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 Limit

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## CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/04/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Shailesh Pandey

Sampling Date: 25/03/2025  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/4195D/06C/05A	Near Chindi Tola Village	Day Time	dB(A)Leq	IS 4758	62.7	-
2	Lab/PN/4195D/06C/05B	Near Pit Office 2 vertical Shaft	Day Time	dB(A)Leq	IS 4758	64.2	-
3	Lab/PN/4195D/06C/05C	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	63.1	-
4	Lab/PN/4195D/06C/05D	Haul Road	Day Time	dB(A)Leq	IS 4758	67.2	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/4195D/06C/06

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	: Lab/PN/4195D/06C/06	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 Chindi Tala Village		

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/4195D/06C/07

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

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/4195D/06C/08

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 : Lab/PN/4195D/06C/08  
Sampling Instrument : Weather Monitoring Station  
Sample Type : Meteorological Parameter  
Sample Location : Near Explosive Magazine

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	GGMP/L/SOP/MP/01
2	Relative Humidity	45.0	%	GGMP/L/SOP/MP/01
3	Rainfall	0.0	mm	GGMP/L/SOP/MP/01
4	Temperature	30.0	°C	GGMP/L/SOP/MP/01



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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	: Lab/PN/4195D/06C/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 New Mine Colony		

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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## CERTIFICATE OF ANALYSIS

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

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:	Lab/PN/4195D/06C/10	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Ground Water	Analysis Start Date:	29/03/2025
Sample Description:	Chindi tala Village Open Dugwell	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	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 = 7.5)	CU	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 SO <sub>4</sub> 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 CaCO <sub>3</sub>	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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Tantan kumar & Dr. Haragobinda Srichandan



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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	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Ground Water	Analysis Start Date:	29/03/2025
Sample Description:	Chindi tala Village Open Dugwell	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

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

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--- End of Report ---

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## CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/04/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/4195D/06C/11	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Ground Water	Analysis Start Date:	29/03/2025
Sample Description:	Dugwell Near Pit Office	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	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	Agreeable
8	pH at 25 °C	7.48	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	23.76	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> 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 CaCO <sub>3</sub>	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	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Ground Water	Analysis Start Date:	29/03/2025
Sample Description:	Dugwell Near Pit Office	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

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

*[Signature]*

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Tantan kumar & Dr. Haragobinda Srichandan



*[Signature]*

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## CERTIFICATE OF ANALYSIS

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

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:	Lab/PN/4195D/06C/12	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Ground Water	Analysis Start Date:	29/03/2025
Sample Description:	Dugwell Near Haul Road-II	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	87.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	38.88	mg/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 F D	1.0	1.5
6	Magnesium as Mg	15.80	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.41	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.64	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> 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
12	Total Hardness as CaCO <sub>3</sub>	162.00	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/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	Sampling Date:	26/03/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	28/03/2025
Sample Type:	Ground Water	Analysis Start Date:	29/03/2025
Sample Description:	Dugwell Near Haul Road-II	Analysis End Date:	04/04/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

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



### SAMPLE DETAILS

Lab ID: Lab/PN/4195D/06C/13  
Sample Drawn By: Shailesh Pandey  
Sample Type: Waste Water  
Sample Description: Mine Seepage Vertical-II  
Sample Quantity: 4.3 L  
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	Norm
1	pH at 25 °C	7.56	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	23.00	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)	24.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.6	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	6.0	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W&WW/46	-

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



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