

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2502E/304/01

Reporting Date: 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2502E/304/01	Sampling Start Date:	27/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/12/2025
Sample Type:	Ambient Air	Sample Receipt Date:	01/12/2025
Sample Description:	Near Nagra Plant	Analysis start- End Date:	01/12/2025-06/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-65%	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 (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.92	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.54	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.21	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.82	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.91	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	75.79	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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


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Gyanvati Shukla




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2502E/304/02

Reporting Date: 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2502E/304/02	Sampling Start Date:	27/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	01/12/2025
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	01/12/2025-06/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-65%	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 (PM2.5)	42.91	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.63	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.26	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.50	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.24	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.92	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	78.42	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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Gyanvati Shukla




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2502E/304/03

Reporting Date: 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2502E/304/03	Sampling Start Date:	27/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	01/12/2025
Sample Description:	Near Workshop	Analysis start- End Date:	01/12/2025-06/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-65%	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 (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.81	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	31.08	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	18.09	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	19.94	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.95	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	71.86	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2502E/304/04

Reporting Date: 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105


SAMPLE DETAILS

Lab ID:	Lab/PN/2502E/304/04	Sampling Start Date:	27/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	01/12/2025
Sample Description:	Near Ukwa Village	Analysis start- End Date:	01/12/2025-06/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-65%	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 (PM2.5)	39.15	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.33	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.90	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.92	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.66	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.92	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	73.63	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/05

Reporting Date: 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

Sampling Date: 27/11/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2502E/3 04/05A	Near Nagra Plant	Day Time	dB(A)Leq	IS 4758	63	-
2	Lab/PN/2502E/3 04/05B	Near Vertical Shaft-1	Day Time	dB(A)Leq	IS 4758	65	-
3	Lab/PN/2502E/3 04/05C	Near Workshop	Day Time	dB(A)Leq	IS 4758	66	-
4	Lab/PN/2502E/3 04/05D	Near Ukwa Village	Day Time	dB(A)Leq	IS 4758	59	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/06

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID: Lab/PN/2502E/304/06
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: New Mine Colony Pump House
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/11/2025
Sample Receipt Date: 01/12/2025
Analysis Start Date: 01/12/2025
Analysis End Date: 06/12/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

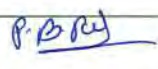
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	240.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	64.12	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	109.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.08	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	37.91	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.36	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	51.84	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	542.00	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 ₃	316.00	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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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/06

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID: Lab/PN/2502E/304/06
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: New Mine Colony Pump House
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/11/2025
Sample Receipt Date: 01/12/2025
Analysis Start Date: 01/12/2025
Analysis End Date: 06/12/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.01	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.82	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

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

[Signature]

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Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---

[Signature]

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/07

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2502E/304/07	Sampling Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	01/12/2025
Sample Type:	Drinking Water	Analysis Start Date:	01/12/2025
Sample Description:	Mine Office Water Cooler	Analysis End Date:	06/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	52.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	12.82	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	9.99	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	6.80	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.44	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	7.07	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	88.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	60.00	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

T H

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



P.B.R.

Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/07

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2502E/304/07
Sample Drawn By: Shailesh Pandey
Sample Type: Drinking Water
Sample Description: Mine Office Water Cooler
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/11/2025
Sample Receipt Date: 01/12/2025
Analysis Start Date: 01/12/2025
Analysis End Date: 06/12/2025
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	BQL (QL=0.1)	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	BQL (QL=0.5)	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

[Signature]

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Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---

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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/08

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2502E/304/08	Sampling Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	01/12/2025
Sample Type:	Drinking Water	Analysis Start Date:	01/12/2025
Sample Description:	Officer Colony No. 4 Water Cooler	Analysis End Date:	06/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	184.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	56.11	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	17.99	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	11.66	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.21	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	8.07	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	252.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	188.00	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	0.80	NTU	APHA 24th Edition (2130 B)	1	5

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



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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/08

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

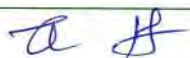
SAMPLE DETAILS

Lab ID:	Lab/PN/2502E/304/08	Sampling Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	01/12/2025
Sample Type:	Drinking Water	Analysis Start Date:	01/12/2025
Sample Description:	Officer Colony No. 4 Water Cooler	Analysis End Date:	06/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

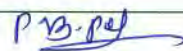
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	0.1	0.3
15	Fluoride	0.24	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	3.23	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	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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Tantan kumar & Dr. Haragobinda Srichandan

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Payal Patel

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/09

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



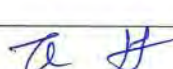
SAMPLE DETAILS

Lab ID:	Lab/PN/2502E/304/09	Sampling Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	01/12/2025
Sample Type:	Drinking Water	Analysis Start Date:	01/12/2025
Sample Description:	Rest House Water Purifier	Analysis End Date:	06/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

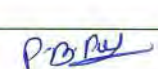
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	152.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	39.28	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	12.49	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	9.23	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.31	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	9.57	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	206.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	136.00	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	0.75	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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Tantan kumar & Dr. Haragobinda Srichandan




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2502E/304/09

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2502E/304/09	Sampling Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	01/12/2025
Sample Type:	Drinking Water	Analysis Start Date:	01/12/2025
Sample Description:	Rest House Water Purifier	Analysis End Date:	06/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W&WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W&WW/46	0.1	0.3
15	Fluoride	0.30	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.66	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

TC H

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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/2502E/304/10

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

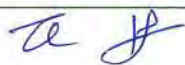
Lab ID: Lab/PN/2502E/304/10
Sample Drawn By: Shailesh Pandey
Sample Type: Drinking Water
Sample Description: Mine Hospital RO Water
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/11/2025
Sample Receipt Date: 01/12/2025
Analysis Start Date: 01/12/2025
Analysis End Date: 06/12/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

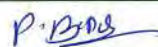
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	206.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	52.90	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	15.49	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	12.63	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.33	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	9.47	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	284.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	184.00	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	0.90	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

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/10

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 06/12/2025



SAMPLE DETAILS

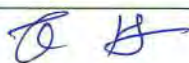
Lab ID: Lab/PN/2502E/304/10
Sample Drawn By: Shailesh Pandey
Sample Type: Drinking Water
Sample Description: Mine Hospital RO Water
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/11/2025
Sample Receipt Date: 01/12/2025
Analysis Start Date: 01/12/2025
Analysis End Date: 06/12/2025
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	0.35	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.46	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




Reviewed & Authorized by
Payal Patel

--- End of Report ---

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/11

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2502E/304/11	Sampling Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	01/12/2025
Sample Type:	Drinking Water	Analysis Start Date:	01/12/2025
Sample Description:	Nagara Plant RO Water	Analysis End Date:	06/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

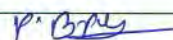
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	224.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	59.32	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	13.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	12.64	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.30	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	8.27	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	300.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	200.00	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	0.86	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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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/11

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID: Lab/PN/2502E/304/11
Sample Drawn By: Shailesh Pandey
Sample Type: Drinking Water
Sample Description: Nagara Plant RO Water
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/11/2025
Sample Receipt Date: 01/12/2025
Analysis Start Date: 01/12/2025
Analysis End Date: 06/12/2025
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	0.44	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.88	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

Tantan Kumar

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Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---

Payal Patel

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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/12

Reporting Date: 06.12.2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID	: Lab/PN/2502E/304/12	Sampling Start Date	: 27.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 01.12.2025
Sample Location	: Near Nagra Plant		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla



----End of Report----

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/13

Reporting Date: 06.12.2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada,
Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID : Lab/PN/2502E/304/13
Sampling Instrument : Weather Monitoring Station
Sample Type : Meteorological Parameter
Sample Location : Near Vertical Shaft-1

Sampling Start Date : 27.11.2025
Sampling End Date : 28.11.2025
Sample Receipt Date : 01.12.2025

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/14

Reporting Date: 06.12.2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID	: Lab/PN/2502E/304/14	Sampling Start Date	: 27.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 01.12.2025
Sample Location	: Near Workshop		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2502E/304/15

Reporting Date: 06.12.2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa,Tah.Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID	: Lab/PN/2502E/304/15	Sampling Start Date	: 27.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 01.12.2025
Sample Location	: Near Ukwa Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2503E/305/01

Reporting Date: 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2503E/305/01	Sampling Start Date:	27/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	01/12/2025
Sample Description:	Near Vertical Shaft-2	Analysis start- End Date:	01/12/2025-06/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-65%	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 (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	18.40	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	32.43	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.79	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.66	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.96	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	75.58	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2503E/305/02

Reporting Date: 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

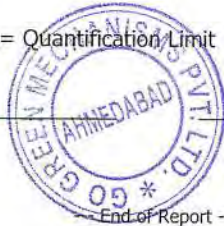
Lab ID:	Lab/PN/2503E/305/02	Sampling Start Date:	27/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	01/12/2025
Sample Description:	Near Substation	Analysis start- End Date:	01/12/2025-06/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-65%	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 (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.91	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.06	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.47	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	17.09	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.93	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	73.35	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2503E/305/03

Reporting Date: 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2503E/305/03	Sampling Start Date:	27/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	01/12/2025
Sample Description:	Near Admin Building	Analysis start- End Date:	01/12/2025-06/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-65%	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 (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.98	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.10	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.18	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	18.51	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.92	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	70.57	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

Reviewed & Authorized by
Gyanvati Shukla



Reviewed & Authorized by
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2503E/305/04

Reporting Date: 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

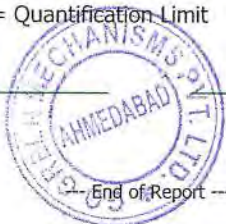
Lab ID:	Lab/PN/2503E/305/04	Sampling Start Date:	27/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	01/12/2025
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	01/12/2025-06/12/2025
Env. Cond.-Sampling:	Temp-25°C / Humidity-65%	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 (PM2.5)	40.40	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.12	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.06	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	17.12	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	19.94	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.89	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	77.52	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2503E/305/05

Reporting Date: 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

27/11/2025

Sample By Shailesh Pandey

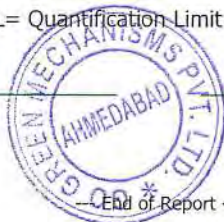
Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2503E/305/05A	Near Vertical Shaft-2	Day Time	dB(A)Leq	IS 4758	63	-
2	Lab/PN/2503E/305/05B	Compressor House-2	Day Time	dB(A)Leq	IS 4758	65	-
3	Lab/PN/2503E/305/05C	Near Jack Hammer Drill (1650Level)	Day Time	dB(A)Leq	IS 4758	66	-
4	Lab/PN/2503E/305/05D	Dumper Loaded at Workshop	Day Time	dB(A)Leq	IS 4758	65	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2503E/305/06

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



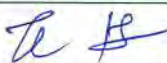
SAMPLE DETAILS

Lab ID:	Lab/PN/2503E/305/06	Sampling Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	01/12/2025
Sample Type:	Ground Water	Analysis Start Date:	01/12/2025
Sample Description:	Vertical Shaft -2 Open Dugwell	Analysis End Date:	06/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

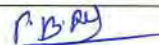
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	388.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	110.62	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	121.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.96	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	51.51	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.06	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	58.42	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	720.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	19.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	488.00	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/2503E/305/06

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID: Lab/PN/2503E/305/06
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Vertical SHaft -2 Open Dugwell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/11/2025
Sample Receipt Date: 01/12/2025
Analysis Start Date: 01/12/2025
Analysis End Date: 06/12/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.4	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	6.17	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




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2503E/305/07

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2503E/305/07
Sample Drawn By: Shailesh Pandey
Sample Type: Waste Water
Sample Description: Mine Seepage Water
Sample Quantity: 4 L
Sample Condition: Satisfactory

Sampling Date: 28/11/2025
Sample Receipt Date: 01/12/2025
Analysis Start Date: 01/12/2025
Analysis End Date: 06/12/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.28	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	29.00	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	5.6	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	6.3	mg/L	IS 3025- Part 44	-
7	Manganese	0.35	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/2503E/305/08

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2503E/305/08	Sampling Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	01/12/2025
Sample Type:	Waste Water	Analysis Start Date:	01/12/2025
Sample Description:	STP Outlet	Analysis End Date:	06/12/2025
Sample Quantity:	4 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	-
2	Total Suspended Solids (TSS)	18.00	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)	32.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.3	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	7.2	mg/L	IS 3025- Part 44	-
7	Manganese	2.40	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/2503E/305/09

Reporting Date : 06/12/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2503E/305/09	Sampling Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	01/12/2025
Sample Type:	Waste Water	Analysis Start Date:	01/12/2025
Sample Description:	ETP Outlet	Analysis End Date:	06/12/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.62	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	24.00	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)	36.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.9	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	5.1	mg/L	IS 3025- Part 44	-
7	Manganese	1.17	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/2503E/305/10

Reporting Date: 06.12.2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist. Balaghat (M.P)481105



SAMPLE DETAILS

Lab ID	: Lab/PN/2503E/305/10	Sampling Start Date	: 27.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 01.12.2025
Sample Location	: Near Vertical Shaft-2		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01

Reviewed & Authorized by

Gyanvati Shukla



-----End of Report-----

Reviewed & Authorized by

Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2503E/305/11

Reporting Date: 06.12.2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist. Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2503E/305/11	Sampling Start Date	: 27.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 01.12.2025
Sample Location	: Near Substation		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla



End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2503E/305/12

Reporting Date: 06.12.2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist. Balaghat (M.P)481105



SAMPLE DETAILS

Lab ID	: Lab/PN/2503E/305/12	Sampling Start Date	: 27.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 01.12.2025
Sample Location	: Near Admin Building		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2503E/305/13

Reporting Date: 06.12.2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa,Tah.Paraswada, Dist. Balaghat (M.P)481105



SAMPLE DETAILS

Lab ID	: Lab/PN/2503E/305/13	Sampling Start Date	: 27.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: .01.12.2025
Sample Location	: Near Weigh Bridge		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	65.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01

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---End of Report---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2524E/306/01

Reporting Date: 08/12/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

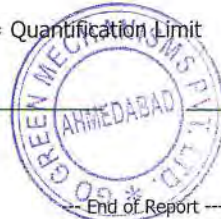
Lab ID:	Lab/PN/2524E/306/01	Sampling Start Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	29/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2025
Sample Description:	Near Chindi Tola Village	Analysis start- End Date:	02/12/2025-08/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-63%	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 (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.79	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.38	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.83	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.24	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.90	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	73.21	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2524E/306/02

Reporting Date: 08/12/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2524E/306/02	Sampling Start Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	29/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2025
Sample Description:	Near Haul Road	Analysis start- End Date:	02/12/2025-08/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-63%	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 (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.93	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.72	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	17.44	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	17.09	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.96	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	71.43	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2524E/306/03

Reporting Date: 08/12/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2524E/306/03	Sampling Start Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	29/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2025
Sample Description:	Near Explosive Magnine	Analysis start- End Date:	02/12/2025-08/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-63%	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 (PM2.5)	38.32	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	19.19	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.02	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	18.41	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	19.94	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.97	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	76.34	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2524E/306/04

Reporting Date: 08/12/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2524E/306/04	Sampling Start Date:	28/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	29/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	02/12/2025
Sample Description:	Near New Mine Colony	Analysis start- End Date:	02/12/2025-08/12/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-63%	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 (PM2.5)	39.15	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	19.55	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.72	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	18.41	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	17.09	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.98	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	78.99	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2524E/306/05

Reporting Date: 08/12/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Shailesh Pandey

Sampling Date: 28/11/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2524E/3 06/05A	Near Chindi Tola Village	Day Time	dB(A)Leq	IS 4758	57	-
2	Lab/PN/2524E/3 06/05B	Near Pit Office-2 Vertical Shaft	Day Time	dB(A)Leq	IS 4758	63	-
3	Lab/PN/2524E/3 06/05C	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	64	-
4	Lab/PN/2524E/3 06/05D	Haul Road	Day Time	dB(A)Leq	IS 4758	60	-

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

Reviewed & Authorized by
Gyanvati Shukla



---End of Report---

Reviewed & Authorized by
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2524E/306/06

Reporting Date : 08/12/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



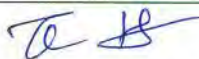
SAMPLE DETAILS

Lab ID:	Lab/PN/2524E/306/06	Sampling Date:	29/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	02/12/2025
Sample Type:	Ground Water	Analysis Start Date:	02/12/2025
Sample Description:	Chindi Tola Village Open Dugwell	Analysis End Date:	08/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	216.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	76.95	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	108.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.08	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	23.33	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.24	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	42.87	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	498.00	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 ₃	288.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500.

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



Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan




Reviewed & Authorized by
Payal Patel

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M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2524E/306/06	Sampling Date:	29/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	02/12/2025
Sample Type:	Ground Water	Analysis Start Date:	02/12/2025
Sample Description:	Chindi Tola Village Open Dugwell	Analysis End Date:	08/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.46	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	5.06	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

T. H.

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



P. B. Patel

Reviewed & Authorized by
Payal Patel

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2524E/306/07

Reporting Date : 08/12/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



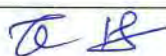
SAMPLE DETAILS

Lab ID:	Lab/PN/2524E/306/07	Sampling Date:	29/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	02/12/2025
Sample Type:	Ground Water	Analysis Start Date:	02/12/2025
Sample Description:	Dugwell Near Pit Office	Analysis End Date:	08/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

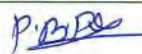
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	236.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	84.96	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	126.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.16	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	26.24	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.21	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	46.46	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	520.00	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 ₃	320.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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



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Tantan kumar & Dr. Haragobinda Srichandan

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Payal Patel

Page No : 1/2

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Reporting Date : 08/12/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2524E/306/07
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Dugwell Near Pit Office
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 29/11/2025
Sample Receipt Date: 02/12/2025
Analysis Start Date: 02/12/2025
Analysis End Date: 08/12/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.85	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	6.11	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

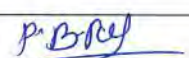
AL & PL as per IS 10500

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


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Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2524E/306/08

Reporting Date : 08/12/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID:	Lab/PN/2524E/306/08	Sampling Date:	29/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	02/12/2025
Sample Type:	Ground Water	Analysis Start Date:	02/12/2025
Sample Description:	Dugwell near Haul Road-2	Analysis End Date:	08/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

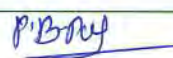
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	244.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	88.17	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	116.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.03	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	27.21	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.14	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	45.86	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	528.00	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 ₃	332.00	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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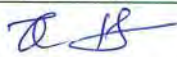
SAMPLE DETAILS

Lab ID:	Lab/PN/2524E/306/08	Sampling Date:	29/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	02/12/2025
Sample Type:	Ground Water	Analysis Start Date:	02/12/2025
Sample Description:	Dugwell near Haul Road-2	Analysis End Date:	08/12/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

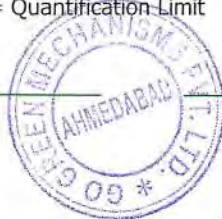
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.90	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	7.21	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	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
Tantun kumar & Dr. Haragobinda Srichandan




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2524E/306/10

Reporting Date: 08.12.2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID	: Lab/PN/1429E/306/10	Sampling Start Date	: 28.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 29.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 02.12.2025
Sample Location	: Near Chindi Tola Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01

Reviewed & Authorized by

Gyanvati Shukla



---End of Report---

Reviewed & Authorized by

Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/LN/2524E/306/11

Reporting Date: 08.12.2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID	: Lab/LN/2524E/306/11	Sampling Start Date	: 28.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 29.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 02.12.2025
Sample Location	: Near Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMP/LN/MP/01
2	Relative Humidity	63.0	%	GGMP/LN/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/LN/MP/01
4	Wind Speed	1.3	m/s	GGMP/LN/MP/01

Reviewed & Authorized by

Gyanvati Shukla



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Reviewed & Authorized by

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2524E/306/12

Reporting Date: 08.12.2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID	: Lab/PN/2524E/306/12	Sampling Start Date	: 28.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 29.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 02.12.2025
Sample Location	: Near Explosive Magazine		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2524E/306/13

Reporting Date: 08.12.2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa,Tah.Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

Lab ID	: Lab/PN/2524E/306/13	Sampling Start Date	: 28.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 29.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 02.12.2025
Sample Location	: Near New Mine Colony		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01

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