

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1427E/304/01

Reporting Date: 08/09/2025

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/1427E/304/01	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Nagra Plant	Analysis start- End Date:	30/08/2025-04/09/2025
Env. Cond.-Sampling:	Temp -26°C/Humidity-81%	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)	37.90	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.46	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.42	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.09	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	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)	0.88	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)	66.46	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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

Reviewed & Authorized by
Gyanvati Shukla



P. B. Patel
Reviewed & Authorized by
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1427E/304/02

Reporting Date: 08/09/2025

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/1427E/304/02	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	30/08/2025-04/09/2025
Env. Cond.-Sampling:	Temp -26°C/Humidity-81%	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)	13.01	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.55	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.12	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	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)	69.52	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1427E/304/03

Reporting Date: 08/09/2025

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/1427E/304/03	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Workshop	Analysis start- End Date:	30/08/2025-04/09/2025
Env. Cond.-Sampling:	Temp -26°C/Humidity-81%	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)	12.59	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.47	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.24	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.95	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)	67.47	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1427E/304/04

Reporting Date: 08/09/2025

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/1427E/304/04	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Ukwa Village	Analysis start- End Date:	30/08/2025-04/09/2025
Env. Cond.-Sampling:	Temp -26°C/Humidity-81%	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)	38.74	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.37	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.84	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.80	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	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)	1.03	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)	68.91	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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Reporting Date: 08/09/2025

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: 27/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1427E/3 04/05A	Near Nagra Plant	Day Time	dB(A)Leq	IS 4758	62	-
2	Lab/PN/1427E/3 04/05B	Near Vertical Shaft-1	Day Time	dB(A)Leq	IS 4758	66	-
3	Lab/PN/1427E/3 04/05C	Near Workshop	Day Time	dB(A)Leq	IS 4758	67	-
4	Lab/PN/1427E/3 04/05D	Near Ukwa Village	Day Time	dB(A)Leq	IS 4758	62	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/06

Reporting Date : 08/09/2025

M/s Moil Limited

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



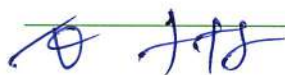
SAMPLE DETAILS

Lab ID:	Lab/PN/1427E/304/06	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	G.W New Mine Colony Pump House	Analysis End Date:	04/09/2025
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	225.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	56.11	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	98.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.04	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	34.02	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.13	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	44.63	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	502.00	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	280.00	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/1427E/304/06

Reporting Date : 08/09/2025

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/1427E/304/06	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	G.W New Mine Colony Pump House	Analysis End Date:	04/09/2025
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	0.78	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	5.68	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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--- End of Report ---



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/07

Reporting Date : 08/09/2025

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/1427E/304/07	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	30/08/2025
Sample Description:	D.W Mine Office Water Cooler	Analysis End Date:	04/09/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

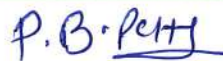
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	40.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	8.81	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	7.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	5.34	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.55	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	4.81	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	68.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	44.00	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

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/07

Reporting Date : 08/09/2025

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/1427E/304/07
Sample Drawn By: Shailesh Pandey
Sample Type: Drinking Water
Sample Description: D.W Mine Office Water Cooler
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/08/2025
Sample Receipt Date: 30/08/2025
Analysis Start Date: 30/08/2025
Analysis End Date: 04/09/2025
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	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	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/1427E/304/08

Reporting Date : 08/09/2025

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/1427E/304/08	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	30/08/2025
Sample Description:	D.W Officer Colony No. 4 Water Cooler	Analysis End Date:	04/09/2025
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	190.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	62.52	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	15.99	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	9.72	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.23	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	6.51	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	260.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	196.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B)	1	5

AL & PL AS Per IS 10500

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/08

Reporting Date : 08/09/2025

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/1427E/304/08	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	30/08/2025
Sample Description:	D.W Officer Colony No. 4 Water Cooler	Analysis End Date:	04/09/2025
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	0.32	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	3.70	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent

AL & PL AS Per IS 10500

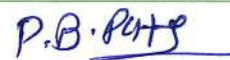
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/09

Reporting Date : 08/09/2025

M/s Moil Limited

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



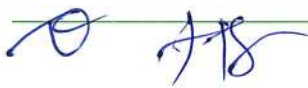
SAMPLE DETAILS

Lab ID:	Lab/PN/1427E/304/09	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	30/08/2025
Sample Description:	D.W Rest House Water Purifier	Analysis End Date:	04/09/2025
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	145.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	36.07	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	10.99	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	7.29	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.34	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	4.31	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	192.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	120.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B)	1	5

AL & PL AS Per IS:10500

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/09

Reporting Date : 08/09/2025

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/1427E/304/09	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	30/08/2025
Sample Description:	D.W Rest House Water Purifier	Analysis End Date:	04/09/2025
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	0.22	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.21	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	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/1427E/304/10

Reporting Date : 08/09/2025

M/s Moil Limited

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



SAMPLE DETAILS

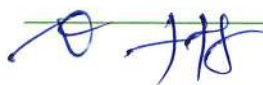
Lab ID: Lab/PN/1427E/304/10
Sample Drawn By: Shailesh Pandey
Sample Type: Drinking Water
Sample Description: D.W Mine Hospital RO Water
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/08/2025
Sample Receipt Date: 30/08/2025
Analysis Start Date: 30/08/2025
Analysis End Date: 04/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

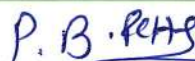
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	195.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	48.09	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	14.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	10.69	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.25	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	9.32	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	264.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	164.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B)	1	5

AL & PL AS Per IS 10500

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/10

Reporting Date : 08/09/2025

M/s Moil Limited

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



SAMPLE DETAILS

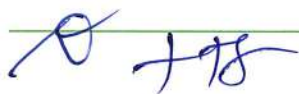
Lab ID: Lab/PN/1427E/304/10
Sample Drawn By: Shailesh Pandey
Sample Type: Drinking Water
Sample Description: D.W Mine Hospital RO Water
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/08/2025
Sample Receipt Date: 30/08/2025
Analysis Start Date: 30/08/2025
Analysis End Date: 04/09/2025
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	0.24	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.44	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent

AL & PL AS Per IS 10500

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



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/11

Reporting Date : 08/09/2025

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/1427E/304/11
Sample Drawn By: Shailesh Pandey
Sample Type: Drinking Water
Sample Description: D.W Nagar Plant RO Water
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/08/2025
Sample Receipt Date: 30/08/2025
Analysis Start Date: 30/08/2025
Analysis End Date: 04/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

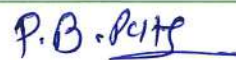
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	200.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	51.30	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	11.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	11.66	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.30	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	6.92	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	268.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	176.00	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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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/1427E/304/11

Reporting Date : 08/09/2025

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/1427E/304/11
Sample Drawn By: Shailesh Pandey
Sample Type: Drinking Water
Sample Description: D.W Nagar Plant RO Water
Sample Quantity: 6 L
Sample Condition: Satisfactory

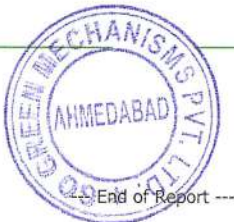
Sampling Date: 28/08/2025
Sample Receipt Date: 30/08/2025
Analysis Start Date: 30/08/2025
Analysis End Date: 04/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

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	0.32	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	3.02	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	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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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/12

Reporting Date: 08.09.2025

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/1427E/304/12	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Nagra Plant		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	81.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla



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End of Report

Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/13

Reporting Date: 08.09.2025

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/1427E/304/13	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Vertical Shaft-1		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	81.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/14

Reporting Date: 08.09.2025

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/1427E/304/14	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Workshop		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	81.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01

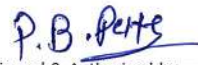


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CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/1427E/304/15

Reporting Date: 08.09.2025

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/1427E/304/15	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Ukwa Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	81.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1428E/305/01

Reporting Date: 06/09/2025

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/1428E/305/01	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Vertical Shaft-2	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-81%	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)	34.58	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.86	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.68	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.45	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	18.36	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)	67.81	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1428E/305/02

Reporting Date: 06/09/2025

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/1428E/305/02	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Substation	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-81%	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)	32.08	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.38	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	22.94	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	9.89	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)	0.87	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)	65.40	µg/m3	IS 5182- Part 23	

Norms as per National Ambient Air Quality Standards.

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



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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1428E/305/03

Reporting Date: 06/09/2025

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/1428E/305/03	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Admin Building	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-81%	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)	30.83	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.90	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	23.72	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.95	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)	68.55	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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


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Gyanvati Shukla



--- End of Report ---


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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1428E/305/04

Reporting Date: 06/09/2025

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/1428E/305/04	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-81%	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)	35.41	µg/m3	GGMP/L/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.56	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.10	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.16	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMP/L/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)	63.84	µg/m3	IS 5182- Part 23	100

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/1428E/305/05

Reporting Date: 06/09/2025

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
Sample By Shailesh Pandey

Sampling Date: 27/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1428E/305/05A	Near Vertical Shaft-2	Day Time	dB(A)Leq	IS 4758	62	-
2	Lab/PN/1428E/305/05B	Compressor House-2	Day Time	dB(A)Leq	IS 4758	69	-
3	Lab/PN/1428E/305/05C	Near Jack Hammer Drill (1650Level)	Day Time	dB(A)Leq	IS 4758	67	-
4	Lab/PN/1428E/305/05D	Damper Loaded at Workshop	Day Time	dB(A)Leq	IS 4758	62	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/06

Reporting Date : 06/09/2025

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/1428E/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: 28/08/2025
Sample Receipt Date: 30/08/2025
Analysis Start Date: 30/08/2025
Analysis End Date: 05/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

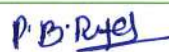
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	385.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	106.21	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	110.46	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.97	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	48.84	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	60.78	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	694.00	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	466.00	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/1428E/305/06

Reporting Date : 06/09/2025

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/1428E/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: 28/08/2025
Sample Receipt Date: 30/08/2025
Analysis Start Date: 30/08/2025
Analysis End Date: 05/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.52	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	6.85	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.

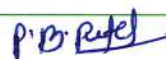
NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/07

Reporting Date : 06/09/2025

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/1428E/305/07	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Waste Water	Analysis Start Date:	30/08/2025
Sample Description:	Mine Seepage Water	Analysis End Date:	05/09/2025
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	7.32	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	16.00	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)	20.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	5.8	mg/L	IS 3025- Part 44	-
7	Manganese	0.33	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/1428E/305/08

Reporting Date : 06/09/2025

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/1428E/305/08	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Waste Water	Analysis Start Date:	30/08/2025
Sample Description:	STP Outlet	Analysis End Date:	05/09/2025
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	7.42	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	22.00	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)	36.0	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.0	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	8.8	mg/L	IS 3025- Part 44	-
7	Manganese	2.62	mg/L	GGMPL/SOP/W&WW/46	-

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



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End of Report



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/09

Reporting Date : 06/09/2025

M/s Moil Limited

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



SAMPLE DETAILS

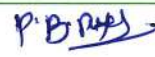
Lab ID:	Lab/PN/1428E/305/09	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Waste Water	Analysis Start Date:	30/08/2025
Sample Description:	ETP Outlet	Analysis End Date:	05/09/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.48	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	17.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	28.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	6.6	mg/L	IS 3025- Part 44	-
7	Manganese	1.29	mg/L	GGMPL/SOP/W&WW/46	-

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/1428E/305/10

Reporting Date: 06.09.2025

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/1428E/305/10	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Near Vertical Shaft-2		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	81.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01

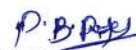


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/11

Reporting Date: 06.09.2025

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/1428E/305/11	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Near Substation		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	81.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/12

Reporting Date: 06.09.2025

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/1428E/305/12	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Near Admin Building		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	81.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/13

Reporting Date: 06.09.2025

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/1428E/305/13	Sampling Start Date	: 26.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 27.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 29.08.2025
Sample Location	: Near Weigh Bridge		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	81.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1429E/306/01

Reporting Date: 08/09/2025

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/1429E/306/01	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Chindi Tola Village	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-81%	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)	31.66	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.71	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	24.65	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	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)	65.95	µg/m3	IS 5182- Part 23	100

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/1429E/306/02

Reporting Date: 08/09/2025

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/1429E/306/02	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Haul Road	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-81%	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)	29.58	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.63	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.10	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.05	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	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)	59.97	µg/m3	IS 5182- Part 23	100

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/1429E/306/03

Reporting Date: 08/09/2025

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/306/03	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near Explosive Magnine	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-81%	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)	31.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.61	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	23.20	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.49	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	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)	0.88	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)	67.13	µg/m3	IS 5182- Part 23	100

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/1429E/306/04

Reporting Date: 08/09/2025

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/306/04	Sampling Start Date:	27/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	28/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	30/08/2025
Sample Description:	Near New Mine Colony	Analysis start- End Date:	30/08/2025-05/09/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-81%	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)	28.33	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.72	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.81	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	9.89	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)	62.74	µg/m3	IS 5182- Part 23	100

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/1429E/306/05

Reporting Date: 08/09/2025

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: 27/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1429E/3 06/05A	Near Chindi Tola Village	Day Time	dB(A)Leq	IS 4758	59	-
2	Lab/PN/1429E/3 06/05B	Near Pit Office-2 Vertical Shaft	Day Time	dB(A)Leq	IS 4758	62	-
3	Lab/PN/1429E/3 06/05C	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	63	-
4	Lab/PN/1429E/3 06/05D	Haul Road	Day Time	dB(A)Leq	IS 4758	65	-

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

Reviewed & Authorized by
Gyanvati Shukla



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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/06

Reporting Date : 08/09/2025

M/s Moil Limited

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



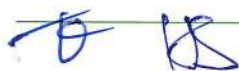
SAMPLE DETAILS

Lab ID:	Lab/PN/1429E/306/06	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Chindi Tola Village Open Dugwell	Analysis End Date:	05/09/2025
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	200.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	72.94	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	102.80	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.02	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.41	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	40.92	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	484.00	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	266.00	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/1429E/306/06

Reporting Date : 08/09/2025

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/306/06
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Chindi Tola Village Open Dugwell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/08/2025
Sample Receipt Date: 30/08/2025
Analysis Start Date: 30/08/2025
Analysis End Date: 05/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.5	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	4.80	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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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/07

Reporting Date : 08/09/2025

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

Sampling Date: 28/08/2025
Sample Receipt Date: 30/08/2025
Analysis Start Date: 30/08/2025
Analysis End Date: 05/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

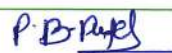
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	205.0	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	88.18	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	122.66	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.12	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.49	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.18	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	44.73	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	502.00	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	292.00	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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Reporting Date : 08/09/2025

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

Sampling Date: 28/08/2025
Sample Receipt Date: 30/08/2025
Analysis Start Date: 30/08/2025
Analysis End Date: 05/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.2	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	6.04	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/1429E/306/08

Reporting Date : 08/09/2025

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/306/08	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Ground Water	Analysis Start Date:	30/08/2025
Sample Description:	Dugwell near Haul Road-2	Analysis End Date:	05/09/2025
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	210.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	83.37	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	1.16	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.98	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.10	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	45.94	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	510.00	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	282.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500.

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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/1429E/306/08
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Dugwell near Haul Road-2
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 28/08/2025
Sample Receipt Date: 30/08/2025
Analysis Start Date: 30/08/2025
Analysis End Date: 05/09/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	7.18	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

[Signature]

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[Signature]

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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/1429E/306/09	Sampling Date:	28/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	30/08/2025
Sample Type:	Waste Water	Analysis Start Date:	30/08/2025
Sample Description:	Near Mine Seepage Vertical-2	Analysis End Date:	05/09/2025
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	7.36	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	12.00	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)	20.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.2	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	5.2	mg/L	IS 3025- Part 44	-
7	Manganese	0.42	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: GGMP/LN/1429E/306/10

Reporting Date: 08.09.2025

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	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Chindi Tola Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMP/LN/MP/01
2	Relative Humidity	81.0	%	GGMP/LN/MP/01
3	Rainfall	0.0	mm	GGMP/LN/MP/01
4	Average Wind Speed	2.1	m/s	GGMP/LN/MP/01



Reviewed & Authorized by

Gyanvati Shukla



----End of Report----



Reviewed & Authorized by

Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/11

Reporting Date: 08.09.2025

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/306/11	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	81.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01

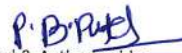


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/12

Reporting Date: 08.09.2025

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/306/12	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
Sample Location	: Near Explosive Magazine		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	81.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	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/1429E/306/13

Reporting Date: 08.09.2025

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/306/13	Sampling Start Date	: 27.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 28.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 30.08.2025
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	81.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01

Reviewed & Authorized by

Gyanvati Shukla



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