

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3173E/310/01

Reporting Date: 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/3173E/310/01	Sampling Start Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	23/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2026
Sample Description:	Near Main Gate	Analysis start- End Date:	25/01/2026-02/02/2026
Env. Cond.-Sampling:	Temp-22°C/ Humidity-66%	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)	15.93	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.16	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.11	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	13.88	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)	1.06	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)	70.42	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
Tantan Kumar



--- End of Report ---


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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/3173E/310/02

Reporting Date: 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/3173E/310/02	Sampling Start Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	23/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2026
Sample Description:	Near Guest House	Analysis start- End Date:	25/01/2026-02/02/2026
Env. Cond.-Sampling:	Temp-22°C/ Humidity-66%	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)	15.53	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.48	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.18	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.27	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)	1.07	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)	73.34	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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Tantan Kumar



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Manish Kumawat

Page No : 1/1

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Reporting Date: 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

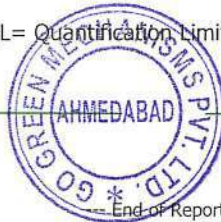
Lab ID:	Lab/PN/3173E/310/03	Sampling Start Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	23/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2026
Sample Description:	Near Tirodi Village	Analysis start- End Date:	25/01/2026-02/02/2026
Env. Cond.-Sampling:	Temp-22°C/ Humidity-66%	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)	32.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.46	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.37	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.11	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	13.88	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)	1.08	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)	68.13	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/3173E/310/04

Reporting Date: 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

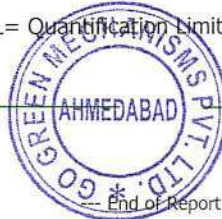
Lab ID:	Lab/PN/3173E/310/04	Sampling Start Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	23/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2026
Sample Description:	Officer Colony	Analysis start- End Date:	25/01/2026-02/02/2026
Env. Cond.-Sampling:	Temp-22°C/ Humidity-66%	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)	14.89	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.96	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.18	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.27	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)	1.05	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)	74.31	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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M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 22/01/2026

Sample By : Shailesh Pandey

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3173E/3 10/0A	Near Office Premises	Day Time	dB(A)Leq	IS 4758	54	-
2	Lab/PN/3173E/3 10/05B	TRB Mashine	Day Time	dB(A)Leq	IS 4758	62	-
3	Lab/PN/3173E/3 10/05C	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	64	-
4	Lab/PN/3173E/3 10/05D	Near Excavator	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

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Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist.

Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/3173E/310/06	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Open Dugwell No-2	Analysis End Date:	02/02/2026
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	288.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	65.73	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	44.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.81	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	34.99	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.41	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	38.58	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	480.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	9.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	308.00	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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Pantan kumar & Dr. Haragobinda Srichandan




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Payal Patel

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M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3173E/310/06	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Open Dugwell No-2	Analysis End Date:	02/02/2026
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	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	5.71	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: GGMP/L/PN/3173E/310/07

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist.

Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3173E/310/07	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Officer Colony Water Supply Borewell Water	Analysis End Date:	02/02/2026
Sample Quantity:	6 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	232.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	52.90	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	38.64	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.62	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	30.61	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.32	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	38.88	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	385.00	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	258.00	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

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3173E/310/07

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



TC-7073

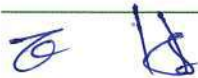
SAMPLE DETAILS

Lab ID:	Lab/PN/3173E/310/07	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Officer Colony Water Supply Borewell Water	Analysis End Date:	02/02/2026
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	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.15	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/3173E/310/08

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/3173E/310/08	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Staff Quarter Water Supply Borewell Water	Analysis End Date:	02/02/2026
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	228.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	54.50	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	49.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.66	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	38.63	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.35	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	34.84	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	410.00	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	295.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/3173E/310/08

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist.

Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3173E/310/08	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Staff Quarter Water Supply Borewell Water	Analysis End Date:	02/02/2026
Sample Quantity:	6 L	Sampling Method:	GGMP/ WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMP/ SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/ SOP/W & WW/46	0.1	0.3
16	Nitrate	2.95	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: GGMP/L/PN/3173E/310/09

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/3173E/310/09	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Waste Water	Analysis Start Date:	27/01/2026
Sample Description:	South Bed Mine Discharge Water	Analysis End Date:	02/02/2026
Sample Quantity:	4 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.63	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	59.00	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)	44.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	11.00	mg/L	IS 3025- Part 44	-
7	Manganese	0.124	mg/L	GGMP/L/SOP/W&WW/46	-

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

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Tantan Kumar



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Manish Kumawat

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Report Number: GGMPL/PN/3173E/310/10

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3173E/310/10	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Waste Water	Analysis Start Date:	27/01/2026
Sample Description:	Mine Discharge Water Pit No-6	Analysis End Date:	02/02/2026
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)	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)	36.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	10.00	mg/L	IS 3025- Part 44	-
7	Manganese	0.157	mg/L	GGMPL/SOP/W&WW/46	-

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

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Report Number: GGMPL/PN/3173E/310/11

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist.

Balaghat (M.P) 481449



TC-7073

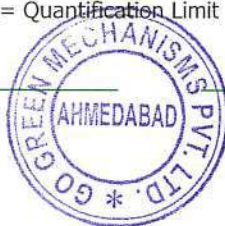
SAMPLE DETAILS

Lab ID:	Lab/PN/3173E/310/11	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Waste Water	Analysis Start Date:	27/01/2026
Sample Description:	Mine Discharge Water Pit No-7	Analysis End Date:	02/02/2026
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	7.29	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	19.00	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	5.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	9.60	mg/L	IS 3025- Part 44	-
7	Manganese	0.143	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/3173E/310/12

Reporting Date: 03.02.2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID	: Lab/PN/3173E/310/12	Sampling Start Date	: 22.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 23.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 25.01.2026
Sample Location	: Near Main Gate		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	22.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	66.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01

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Report Number: GGMPL/PN/3173E/310/13

Reporting Date: 03.02.2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/3173E/310/13	Sampling Start Date	: 22.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 23.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 25.01.2026
Sample Location	: Near Guest House		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	22.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	66.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01



Reviewed & Authorized by

Tantan Kumar




Reviewed & Authorized by

Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3173E/310/14

Reporting Date: 03.02.2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi,Tah. Tirodi,Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID	: Lab/PN/3173E/310/14	Sampling Start Date	: 22.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 23.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 25.01.2026
Sample Location	: Near Tirodi Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	22.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	66.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01



 Reviewed & Authorized by _____
 Tantan Kumar





 Reviewed & Authorized by _____
 Manish Kumawat

---End of Report---

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CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/3173E/310/15

Reporting Date: 03.02.2026

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID	: Lab/PN/3173E/310/15	Sampling Start Date	: 22.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 23.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 25.01.2026
Sample Location	: Officer Colony		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	22.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	66.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01



Reviewed & Authorized by

Tantan Kumar




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Manish Kumawat

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Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/3174E/311/01

Reporting Date: 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3174E/311/01	Sampling Start Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	23/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2026
Sample Description:	Near Sampling Room	Analysis start- End Date:	27/01/2026-02/02/2026
Env. Cond.-Sampling:	Temp-22°C / Humidity-66%	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)	40.41	µg/m3	GGMP/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.53	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.61	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.37	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	18.05	µg/m3	GGMP/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)	78.70	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 : GGMP/ PN/3174E/311/02

Reporting Date: 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

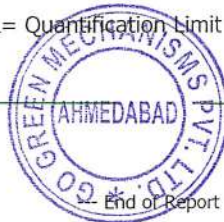
Lab ID:	Lab/PN/3174E/311/02	Sampling Start Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	23/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2026
Sample Description:	Near Dumping Room	Analysis start- End Date:	27/01/2026-02/02/2026
Env. Cond.-Sampling:	Temp-22°C / Humidity-66%	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)	41.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.347	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.38	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.30	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.66	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)	0.88	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)	80.45	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/3174E/311/03

Reporting Date: 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

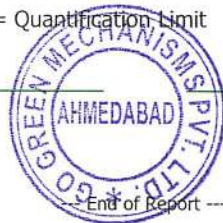
Sampling Instrument : Sound Level Meter
Sample By : Shailesh Pandey

Sampling Date: 22/01/2026
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3174E/3 11/03A	Near Sampling Room	Day Time	dB(A)Leq	IS 4758	62	-
2	Lab/PN/3174E/3 11/03B	Near Weigh Bridge south	Day Time	dB(A)Leq	IS 4758	58	-

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3174E/311/04

Reporting Date : 03/02/2026

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Balaghat (M.P) 481449



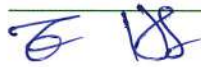
SAMPLE DETAILS

Lab ID:	Lab/PN/3174E/311/04	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Sampling Room Water Supply Borewell Water	Analysis End Date:	02/02/2026
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	250.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	54.11	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	51.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.90	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	7.20	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.28	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	430.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS

AL & PL As per IS 10500.

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



Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan




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Page No : 1/2

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Report Number: GGMP/L/PN/3174E/311/04

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



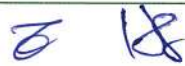
SAMPLE DETAILS

Lab ID:	Lab/PN/3174E/311/04	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Sampling Room Water Supply Borewell Water	Analysis End Date:	02/02/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	275.00	mg/L	APHA 24th Edn 2340 C	200	600
13	Turbidity	0.50	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 NO ₃ 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.

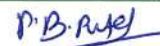
NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan



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Report Number: GGMPL/PN/3174E/311/05

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/3174E/311/05	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Near Dumping Area Water Supply Borewell Water	Analysis End Date:	02/02/2026
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 CaCO3	215.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	50.10	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	44.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.98	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	29.16	mg/L	APHA 24th Edn 3500 Mg B	30	100
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	24.24	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	360.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS

AL & PL As per IS 10500.

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: GGMP/L/PN/3174E/311/05

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi,Tah. Tirodi,Dist.

Balaghat (M.P) 481449




SAMPLE DETAILS

Lab ID:	Lab/PN/3174E/311/05	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Near Dumping Area Water Supply Borewell Water	Analysis End Date:	02/02/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	245.00	mg/L	APHA 24th Edn 2340 C	200	600
13	Turbidity	1.2	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	1.72	mg/L	APHA 24th Edn 4500 NO ₃ 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: GGMP/L/PN/3174E/311/06

Reporting Date: 03.02.2026

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi,Tah. Tirodi,Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID	: Lab/PN/3174E/311/06	Sampling Start Date	: 22.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 23.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 25.01.2026
Sample Location	: Near Sampling Room		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	22.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	66.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla



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Manish Kumawat

----End of Report----

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CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/3174E/311/07

Reporting Date: 03.02.2026

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site PO. Tirodi,Tah. Tirodi,Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID	: Lab/PN/3174E/311/07	Sampling Start Date	: 22.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 23.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 25.01.2026
Sample Location	: Near Dumping Room		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	22.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	66.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number : GGMLP/PN/3175E/312/01

Reporting Date: 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site PO. Tirodi,Tah. Tirodi,Dist. Balaghat
(M.P) 481449



TC-7073

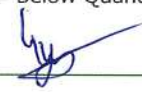
SAMPLE DETAILS

Lab ID:	Lab/PN/3175E/312/01	Sampling Start Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	23/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2026
Sample Description:	Near Pit Office	Analysis start- End Date:	27/01/2026-02/02/2026
Env. Cond.-Sampling:	Temp-22°C / Humidity-66%	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)	16.34	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.96	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.30	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.66	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)	0.90	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)	76.13	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/3175E/312/03

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site PO. Tirodi,Tah. Tirodi,Dist. Balaghat
(M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3175E/312/03	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Near Pit Office Water Supply Borewell Water	Analysis End Date:	02/02/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

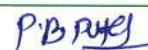
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	415.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	102.20	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	128.46	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.05	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	64.39	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.40	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	66.66	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	820.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	10.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	520.00	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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Report Number: GGMP/ PN/3175E/312/03

Reporting Date : 03/02/2026

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site PO. Tirodi,Tah. Tirodi,Dist. Balaghat
(M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/3175E/312/03	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	Near Pit Office Water Supply Borewell Water	Analysis End Date:	02/02/2026
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	1.50	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	5.57	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.

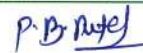
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/3175E/312/04

Reporting Date: 03.02.2026

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



TC-2073

SAMPLE DETAILS

Lab ID	: Lab/PN/3175E/312/04	Sampling Start Date	: 22.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 23.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 25.01.2026
Sample Location	: Near Pit Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	22.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	66.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3176E/313/01

Reporting Date: 02/02/2026

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (North) PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/3176E/313/01	Sampling Start Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	23/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2026
Sample Description:	North Railway Siding Office	Analysis start- End Date:	27/01/2026-31/01/2026
Env. Cond.-Sampling:	Temp-22°C/ Humidity-66%	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)	38.33	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.00	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.90	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.96	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	13.89	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)	0.95	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)	76.06	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: GGMP/L/PN/3176E/313/03

Reporting Date : 02/02/2026

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (North) PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3176E/313/03	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	North Railway Siding Office Borewell Water	Analysis End Date:	31/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	141.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	46.09	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	58.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.56	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.71	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.41	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.45	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	315.00	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	192.00	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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Report Number: GGMPL/PN/3176E/313/03

Reporting Date : 02/02/2026

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (North) PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3176E/313/03	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	North Railway Siding Office Borewell Water	Analysis End Date:	31/01/2026
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	0.72	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.93	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3176E/313/04

Reporting Date: 02.02.2026

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (North) PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID	: Lab/PN/3176E/313/04	Sampling Start Date	: 22.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 23.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 25.01.2026
Sample Location	: North Railway Siding Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.40	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	66.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Temperature	22.0	°C	GGMPL/SOP/MP/01



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Gyanvati Shukla




Reviewed & Authorized by

Manish Kumawat

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Report Number : GGMPL/PN/3177E/314/01

Reporting Date: 02/02/2026

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (South) PO. Tirodi, Tah. Tirodi, Dist.
Balaghat (M.P) 481449



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3177E/314/01	Sampling Start Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	23/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	25/01/2026
Sample Description:	South Railway Siding Office	Analysis start- End Date:	27/01/2026-31/01/2026
Env. Cond.-Sampling:	Temp - 22°C / Humidity - 66 %	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)	12.71	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.13	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.78	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	18.05	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)	79.82	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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Reporting Date : 02/02/2026

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (South) PO. Tirodi,Tah. Tirodi,Dist.
Balaghat (M.P) 481449



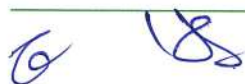
SAMPLE DETAILS

Lab ID:	Lab/PN/3177E/314/03	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	South Railway Siding Office Borewell Water	Analysis End Date:	31/01/2026
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	132.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	38.08	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	40.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.62	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.64	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.53	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	21.41	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	261.00	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	147.00	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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Reporting Date : 02/02/2026

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (South) PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID:	Lab/PN/3177E/314/03	Sampling Date:	23/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	25/01/2026
Sample Type:	Ground Water	Analysis Start Date:	27/01/2026
Sample Description:	South Railway Siding Office Borewell Water	Analysis End Date:	31/01/2026
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	1.1	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.01	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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Reporting Date: 02.02.2026

M/s Moil Limited

Tirodi Manganese Mines Railway Siding (South) PO. Tirodi, Tah. Tirodi, Dist. Balaghat (M.P) 481449



SAMPLE DETAILS

Lab ID	: Lab/PN/3177E/314/04	Sampling Start Date	: 22.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 23.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 25.01.2026
Sample Location	: South Railway Siding Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.40	m/s	GGMP/ SOP/MP/01
2	Relative Humidity	66.0	%	GGMP/ SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/ SOP/MP/01
4	Temperature	22.0	°C	GGMP/ SOP/MP/01


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