

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3132E/294/01

Reporting Date: 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/01	Sampling Start Date:	19/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	22/01/2026
Sample Description:	Near Mine Office	Analysis start- End Date:	22/01/2026-28/01/2026
Env. Cond.-Sampling:	Temp-24°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	38.33	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.62	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.01	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.37	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.67	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)	1.01	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	75.56	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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3132E/294/02

Reporting Date: 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/02	Sampling Start Date:	19/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	22/01/2026
Sample Description:	Near Main Gate	Analysis start- End Date:	22/01/2026-28/01/2026
Env. Cond.-Sampling:	Temp-24°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	13.63	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.49	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.30	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.28	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)	1.00	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)	73.32	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/3132E/294/03

Reporting Date: 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

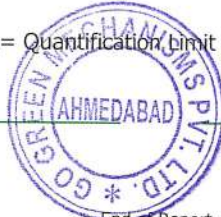
Lab ID:	Lab/PN/3132E/294/03	Sampling Start Date:	19/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	22/01/2026
Sample Description:	Near Sixth ( 6th) Level	Analysis start- End Date:	22/01/2026-28/01/2026
Env. Cond.-Sampling:	Temp-24°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.05	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.51	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.19	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)	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)	70.07	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/3132E/294/04

Reporting Date: 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/04	Sampling Start Date:	19/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	22/01/2026
Sample Description:	Near Hospital	Analysis start- End Date:	22/01/2026-28/01/2026
Env. Cond.-Sampling:	Temp-24°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO <sub>2</sub> )	16.11	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.42	µg/m3	IS 5182- Part 6	80
4	Ozone (O <sub>3</sub> )	12.42	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH <sub>3</sub> )	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)	0.98	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	68.50	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Shailesh Pandey

Sampling Date: 19/01/2026  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3132E/2 94/05A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	57	-
2	Lab/PN/3132E/2 94/05B	Near Main Gate	Day Time	dB(A)Leq	IS 4758	66	-
3	Lab/PN/3132E/2 94/05C	Near Sixth(6th) level	Day Time	dB(A)Leq	IS 4758	62	-
4	Lab/PN/3132E/2 94/05D	Near Hospital	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/3132E/294/06

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/06	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Water Tank Under Ground Source	Analysis End Date:	28/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

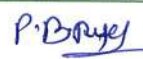
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	194.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	47.29	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	67.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.70	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	28.43	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	32.02	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	390.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	235.00	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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Reporting Date : 29/01/2026

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Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/06	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Water Tank Under Ground Source	Analysis End Date:	28/01/2026
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	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	3.46	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



--- End of Report ---



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Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

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Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/07	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Drinking Water	Analysis Start Date:	22/01/2026
Sample Description:	Admin Office R.O Water	Analysis End Date:	28/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMP/ WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

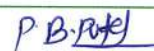
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	173.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	35.27	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	50.98	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	24.79	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.14	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	24.04	mg/L	APHA 24th Edition (4500 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	330.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	190.00	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/3132E/294/07

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/07	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Drinking Water	Analysis Start Date:	22/01/2026
Sample Description:	Admin Office R.O Water	Analysis End Date:	28/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	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	0.64	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	3.17	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 24th Edition	Absent	Absent

AL & PL as per IS 10500

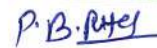
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3132E/294/08

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/08	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	At Hospital Borewell	Analysis End Date:	28/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

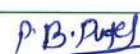
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	181.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	38.47	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	58.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.59	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.27	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.36	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.10	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> 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
12	Total Hardness as CaCO <sub>3</sub>	200.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3132E/294/08

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/08	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	At Hospital Borewell	Analysis End Date:	28/01/2026
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	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	3.15	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: GGMP/L/PN/3132E/294/09

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/09	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Drinking Water	Analysis Start Date:	22/01/2026
Sample Description:	Officer Colony R.O Water	Analysis End Date:	28/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

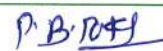
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	178.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	37.27	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	54.48	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	25.27	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.18	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	25.15	mg/L	APHA 24th Edition (4500 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	347.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	197.00	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/3132E/294/09

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/09	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Drinking Water	Analysis Start Date:	22/01/2026
Sample Description:	Officer Colony R.O Water	Analysis End Date:	28/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	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	0.72	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	3.11	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 24th Edition	Absent	Absent

AL & PL as per IS 10500

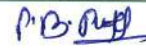
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3132E/294/10

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/10	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Borewell Near Siding	Analysis End Date:	28/01/2026
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 <sub>3</sub>	190.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	44.09	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	65.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.86	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	28.43	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	29.29	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	380.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	227.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3132E/294/10

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)

Reporting Date : 29/01/2026



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/10	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Borewell Near Siding	Analysis End Date:	28/01/2026
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	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	3.32	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

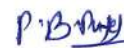
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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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/3132E/294/11

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3132E/294/11	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Waste Water	Analysis Start Date:	22/01/2026
Sample Description:	Mine Discharge Water	Analysis End Date:	28/01/2026
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	7.72	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	104.00	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	6.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	6.2	mg/L	IS 3025- Part 44	-
7	Manganese	0.72	mg/L	GGMPL/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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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3132E/294/12

Reporting Date: 29.01.2026

### M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3132E/294/12	Sampling Start Date	: 19.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.01.2026
Sample Location	: Near Mine office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.94	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Temperature	24.0	°C	GGMPL/SOP/MP/01



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/3132E/294/13

Reporting Date: 29.01.2026

### M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3132E/294/13	Sampling Start Date	: 19.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.01.2026
Sample Location	: Near Mine Gate		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.94	m/s	GGMP/ SOP/MP/01
2	Relative Humidity	63.0	%	GGMP/ SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/ SOP/MP/01
4	Temperature	24.0	°C	GGMP/ SOP/MP/01



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## CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/3132E/294/14

Reporting Date: 29.01.2026

**M/s Moil Limited**

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



IC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3132E/294/14	Sampling Start Date	: 19.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.01.2026
Sample Location	: Near Sixth(6th) Level		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.94	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Temperature	24.0	°C	GGMPL/SOP/MP/01



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3132E/294/15

Reporting Date: 29.01.2026

### M/s Moil Limited

Balaghat Manganese Mines L1=182.3004 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3132E/294/15	Sampling Start Date	: 19.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.01.2026
Sample Location	: Near Hospital		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.94	m/s	GGMP/L/SOP/MP/01
2	Relative Humidity	63.0	%	GGMP/L/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/L/SOP/MP/01
4	Temperature	24.0	°C	GGMP/L/SOP/MP/01



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3133E/295/01

Reporting Date: 28/01/2026

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3133E/295/01	Sampling Start Date:	19/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	22/01/2026
Sample Description:	Adarsh Colony	Analysis start- End Date:	22/01/2026-27/01/2026
Env. Cond.-Sampling:	Temp-24°C/ Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	43.32	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO <sub>2</sub> )	16.52	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.78	µg/m3	IS 5182- Part 6	80
4	Ozone (O <sub>3</sub> )	15.07	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH <sub>3</sub> )	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)	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)	78.32	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/3133E/295/03

Reporting Date : 27/01/2026

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3133E/295/03	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Adarsh Colony Water Supply Borewell Water	Analysis End Date:	26/01/2026
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 <sub>3</sub>	418.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	98.59	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	121.46	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.93	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	60.75	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.28	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	66.25	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	788.00	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 <sub>3</sub>	496.00	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/3133E/295/03

Reporting Date : 27/01/2026

M/s Moil Limited

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah.

Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3133E/295/03	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Adarsh Colony Water Supply Borewell Water	Analysis End Date:	26/01/2026
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	4.63	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

*Tantankumar*

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Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---

*PB Patel*

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/3133E/295/04

Reporting Date: 28.01.2026

**M/s Moil Limited**

Balaghat Manganese Mines L2=0.789 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3133E/295/04	Sampling Start Date	: 19.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.01.2026
Sample Location	: Adarsh Colony		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	24.0	°C	GGMP/ SOP/MP/01
2	Relative Humidity	63.0	%	GGMP/ SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/ SOP/MP/01
4	Wind Speed	1.66	m/s	GGMP/ SOP/MP/01



Reviewed & Authorized by

Tantan Kumar



---End of Report---



Reviewed & Authorized by

Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/3134E/296/01

Reporting Date: 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073


### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/01	Sampling Start Date:	19/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	22/01/2026
Sample Description:	Awaljare Village	Analysis start- End Date:	22/01/2026-27/01/2026
Env. Cond.-Sampling:	Temp-25°C/ Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	43.32	µg/m <sup>3</sup>	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO <sub>2</sub> )	18.05	µg/m <sup>3</sup>	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.35	µg/m <sup>3</sup>	IS 5182- Part 6	80
4	Ozone (O <sub>3</sub> )	12.12	µg/m <sup>3</sup>	IS 5182- Part 9	180
5	Ammonia (NH <sub>3</sub> )	18.05	µg/m <sup>3</sup>	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.96	mg/m <sup>3</sup>	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m <sup>3</sup>	Method IO 3.4	1
12	Particulate Matter (PM10)	78.40	µg/m <sup>3</sup>	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



  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/3134E/296/02

Reporting Date: 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/02	Sampling Start Date:	19/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	22/01/2026
Sample Description:	Shivni Camp	Analysis start- End Date:	22/01/2026-27/01/2026
Env. Cond.-Sampling:	Temp-25°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	41.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.41	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.42	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	17.74	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	20.83	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)	75.01	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/3134E/296/03

Reporting Date: 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



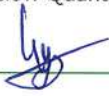
### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/03	Sampling Start Date:	19/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	22/01/2026
Sample Description:	Katangolla Ward No.3	Analysis start- End Date:	22/01/2026-27/01/2026
Env. Cond.-Sampling:	Temp-25°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	36.24	µg/m <sup>3</sup>	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO <sub>2</sub> )	15.47	µg/m <sup>3</sup>	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.72	µg/m <sup>3</sup>	IS 5182- Part 6	80
4	Ozone (O <sub>3</sub> )	16.55	µg/m <sup>3</sup>	IS 5182- Part 9	180
5	Ammonia (NH <sub>3</sub> )	18.05	µg/m <sup>3</sup>	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.03	mg/m <sup>3</sup>	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m <sup>3</sup>	Method IO 3.4	1
12	Particulate Matter (PM10)	72.15	µg/m <sup>3</sup>	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/3134E/296/04

Reporting Date: 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/04	Sampling Start Date:	19/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	22/01/2026
Sample Description:	Bharweli Village	Analysis start- End Date:	22/01/2026-27/01/2026
Env. Cond.-Sampling:	Temp-25°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	44.16	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.58	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.93	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.08	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	19.44	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)	1.09	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)	78.39	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



  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3134E/296/05

Reporting Date: 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

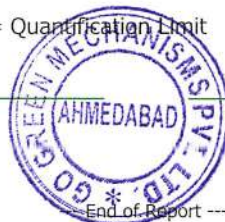
Sampling Instrument : Sound Level Meter  
Sample By : Shailesh Pandey


Sampling Date: 19/01/2026  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3134E/2 96/05A	Awalajare Village	Day Time	dB(A)Leq	IS 4758	51	-
2	Lab/PN/3134E/2 96/05B	Shivni Camp	Day Time	dB(A)Leq	IS 4758	55	-
3	Lab/PN/3134E/2 96/05C	Katangtolla Ward No.3	Day Time	dB(A)Leq	IS 4758	56	-
4	Lab/PN/3134E/2 96/05D	Bharweli Village	Day Time	dB(A)Leq	IS 4758	56	-

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

  
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Gyanvati Shukla



  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3134E/296/06

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/06	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Awaljare Village Borewell	Analysis End Date:	27/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

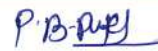
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	396.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	103.41	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	130.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.00	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	51.52	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	46.06	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	730.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	470.00	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/3134E/296/06

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/06	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Awaljare Village Borewell	Analysis End Date:	27/01/2026
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	1.2	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	6.39	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

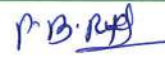
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3134E/296/07

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/07	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Shivni Camp Borewell	Analysis End Date:	27/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

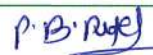
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	412.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	102.20	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	126.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.59	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	52.73	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.23	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	51.31	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	774.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	7.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	472.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3134E/296/07

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/07	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Shivni Camp Borewell	Analysis End Date:	27/01/2026
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	1.2	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	6.19	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/3134E/296/08

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/08	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Katangtolla Ward No.3 Borewell	Analysis End Date:	27/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

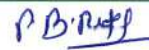
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	425.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	100.20	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	145.45	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.95	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	59.53	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.23	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	57.97	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	748.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	495.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3134E/296/08

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/08	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Katangtolla Ward No.3 Borewell	Analysis End Date:	27/01/2026
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	1.0	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	6.77	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/3134E/296/09

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/09	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Tap Water Near Ram Mandir	Analysis End Date:	27/01/2026
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 <sub>3</sub>	230.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	62.12	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	45.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.54	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.03	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.48	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	21.71	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	363.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	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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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/3134E/296/09

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3134E/296/09	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	22/01/2026
Sample Description:	Tap Water Near Ram Mandir	Analysis End Date:	27/01/2026
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	1.0	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	1.18	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



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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/3134E/296/10

Reporting Date: 29.01.2026

**M/s Moil Limited**

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3134E/296/10	Sampling Start Date	: 19.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.01.2026
Sample Location	: Awalajare Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.94	m/s	GGMPL/SOP/MP/01

Reviewed & Authorized by

Gyanvati Shukla



Reviewed & Authorized by

Manish Kumawat

---End of Report---

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## CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/3134E/296/11

Reporting Date: 29.01.2026

**M/s Moil Limited**

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah.  
Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3134E/296/11	Sampling Start Date	: 19.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.01.2026
Sample Location	: Shivni Camp		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.94	m/s	GGMPL/SOP/MP/01



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Page 1 of 1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/3134E/296/12

Reporting Date: 29.01.2026

**M/s Moil Limited**

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3134E/296/12	Sampling Start Date	: 19.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.01.2026
Sample Location	: Katangtolla Ward No.3		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.94	m/s	GGMPL/SOP/MP/01



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3134E/296/13

Reporting Date: 29.01.2026

**M/s Moil Limited**

Balaghat Manganese Mines L3=76.409 Ha Site, At & P.O. Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3134E/296/13	Sampling Start Date	: 19.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.01.2026
Sample Location	: Bharweli Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.94	m/s	GGMPL/SOP/MP/01



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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/3135E/297/01

Reporting Date: 29/01/2026

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102  
(M.P)



### SAMPLE DETAILS

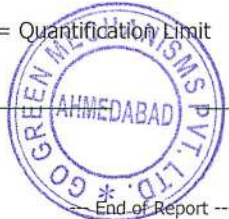
Lab ID:	Lab/PN/3135E/297/01	Sampling Start Date:	19/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	22/01/2026
Sample Description:	Near Mechanical Room	Analysis start- End Date:	23/01/2026-28/01/2026
Env. Cond.-Sampling:	Temp-24°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	35.41	µg/m <sup>3</sup>	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO <sub>2</sub> )	17.35	µg/m <sup>3</sup>	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.97	µg/m <sup>3</sup>	IS 5182- Part 6	80
4	Ozone (O <sub>3</sub> )	15.96	µg/m <sup>3</sup>	IS 5182- Part 9	180
5	Ammonia (NH <sub>3</sub> )	16.67	µg/m <sup>3</sup>	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.03	mg/m <sup>3</sup>	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m <sup>3</sup>	Method IO 3.4	1
12	Particulate Matter (PM10)	71.59	µg/m <sup>3</sup>	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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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3135E/297/02

Reporting Date: 29/01/2026

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102  
(M.P)



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Shailesh Pandey

Sampling Date: 19/01/2026  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3135E/2 97/02	Near Mechanical Room	Day Time	dB(A)Leq	IS 4758	65	-

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

  
 \_\_\_\_\_  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3135E/297/03

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102  
(M.P)



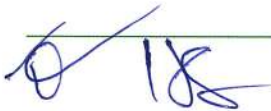
### SAMPLE DETAILS

Lab ID:	Lab/PN/3135E/297/03	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	23/01/2026
Sample Description:	132 KV Pump House	Analysis End Date:	28/01/2026
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 <sub>3</sub>	156.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	36.47	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	52.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.87	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.82	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.39	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	18.38	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	286.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	152.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

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



Reviewed & Authorized by  
Tantan kumar & Dr. Haragobinda Srichandan




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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3135E/297/03

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102  
(M.P)



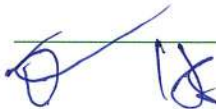
### SAMPLE DETAILS

Lab ID:	Lab/PN/3135E/297/03	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Ground Water	Analysis Start Date:	23/01/2026
Sample Description:	132 KV Pump House	Analysis End Date:	28/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

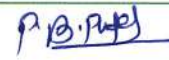
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.8	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.03	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

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



Reviewed & Authorized by  
Tantan kumar & Dr. Haragobinda Srichandan

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Payal Patel

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Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3135E/297/04

Reporting Date : 29/01/2026

M/s Moil Limited

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102  
(M.P)

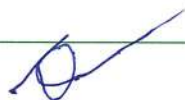


### SAMPLE DETAILS

Lab ID:	Lab/PN/3135E/297/04	Sampling Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/01/2026
Sample Type:	Waste Water	Analysis Start Date:	23/01/2026
Sample Description:	Sine Pond Overflow Water	Analysis End Date:	28/01/2026
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	7.65	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	128.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	32.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	6.00	mg/L	IS 3025- Part 44	-
7	Manganese	0.55	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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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3135E/297/05

Reporting Date: 29.01.2026

**M/s Moil Limited**

Balaghat C & S Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102  
(M.P)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3135E/297/05	Sampling Start Date	: 19.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.01.2027
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.01.2026
Sample Location	: Near Mechanical Room		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	24.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.94	m/s	GGMPL/SOP/MP/01

 Reviewed & Authorized by Tantan Kumar		 Reviewed & Authorized by Manish Kumawat
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---End of Report---

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3145E/298/01

Reporting Date: 28/01/2026

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat  
481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3145E/298/01	Sampling Start Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	21/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	23/01/2026
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	23/01/2026-27/01/2026
Env. Cond.-Sampling:	Temp-26°C/ Humidity-64%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C


Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.65	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.84	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.78	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	19.44	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.98	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	75.08	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



  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3145E/298/03

Reporting Date : 28/01/2026

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat  
481102 (M.P)



TC-7073

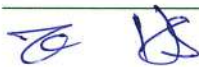
### SAMPLE DETAILS

Lab ID:	Lab/PN/3145E/298/03	Sampling Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	23/01/2026
Sample Type:	Ground Water	Analysis Start Date:	23/01/2026
Sample Description:	Near Office Side Borewell	Analysis End Date:	27/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

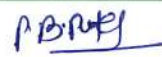
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	258.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	72.14	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	28.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.94	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.06	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.57	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	12.32	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	362.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	242.00	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

Reviewed & Authorized by  
Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3145E/298/03

Reporting Date : 28/01/2026

M/s Moil Limited

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat  
481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3145E/298/03	Sampling Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	23/01/2026
Sample Type:	Ground Water	Analysis Start Date:	23/01/2026
Sample Description:	Near Office Side Borewell	Analysis End Date:	27/01/2026
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	0.68	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.85	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/3145E/298/04

Reporting Date: 28.01.2026

**M/s Moil Limited**

Balaghat Railway Siding, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat  
481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3145E/298/04	Sampling Start Date	: 20.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 21.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 23.01.2026
Sample Location	: Near Weigh Bridge		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	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



---End of Report---



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3146E/299/01

Reporting Date: 28/01/2026

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.  
Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3146E/299/01	Sampling Start Date:	20/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	21/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	23/01/2026
Sample Description:	Near Pump House	Analysis start- End Date:	23/01/2026-27/01/2026
Env. Cond.-Sampling:	Temp - 26°C / Humidity - 64 %	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)	43.74	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.44	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.35	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.30	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)	0.99	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)	76.85	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/3146E/299/03

Reporting Date : 28/01/2026

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.  
Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3146E/299/03	Sampling Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	23/01/2026
Sample Type:	Ground Water	Analysis Start Date:	23/01/2026
Sample Description:	ferro Manganese Plant Open Dugwell	Analysis End Date:	27/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

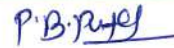
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	117.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	48.90	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	68.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.01	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.31	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.52	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	38.88	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	328.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	185.00	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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Iantan kumar & Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3146E/299/03

Reporting Date : 28/01/2026

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.  
Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3146E/299/03	Sampling Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	23/01/2026
Sample Type:	Ground Water	Analysis Start Date:	23/01/2026
Sample Description:	ferro Manganese Plant Open Dugwell	Analysis End Date:	27/01/2026
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	1.3	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.45	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.

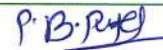
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3146E/299/04

Reporting Date : 28/01/2026

M/s Moil Limited

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist.

Balaghat 481102 (M.P)



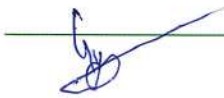
TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3146E/299/04	Sampling Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	23/01/2026
Sample Type:	Waste Water	Analysis Start Date:	23/01/2026
Sample Description:	ETP Outlet	Analysis End Date:	27/01/2026
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	7.45	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	39.00	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)	52.00	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	15.00	mg/L	IS 3025- Part 44	-
7	Manganese	0.14	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/L/PN/3146E/299/05

Reporting Date: 28.01.2026

**M/s Moil Limited**

Balaghat Ferro Manganese Plant, At & P.O Bharweli, Tah. Balaghat Dist. Balaghat 481102 (M.P)



FC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3146E/299/05	Sampling Start Date	: 20.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 21.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 23.01.2026
Sample Location	: Near Pump House		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.38	m/s	GGMPL/SOP/MP/01



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3158E/301/01

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3158E/301/01	Sampling Start Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	Kanki Sand Lease Pump House Upstream	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-25°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	39.57	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	19.97	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.78	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	17.14	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)	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)	80.26	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3158E/301/02

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3158E/301/02	Sampling Start Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	Kanki Sand Lease Pump House Downstream	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-25°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	35.82	µg/m <sup>3</sup>	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO <sub>2</sub> )	17.47	µg/m <sup>3</sup>	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.96	µg/m <sup>3</sup>	IS 5182- Part 6	80
4	Ozone (O <sub>3</sub> )	15.37	µg/m <sup>3</sup>	IS 5182- Part 9	180
5	Ammonia (NH <sub>3</sub> )	16.66	µg/m <sup>3</sup>	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m <sup>3</sup>	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m <sup>3</sup>	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.88	mg/m <sup>3</sup>	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m <sup>3</sup>	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m <sup>3</sup>	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m <sup>3</sup>	Method IO 3.4	1

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

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Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3158E/301/03	Sampling Start Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	500m away From Shiv Mandir	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-25°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	18.86	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	32.63	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	17.14	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	19.94	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.93	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)	72.73	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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Report Number : GGMP/L/PN/3158E/301/04

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3158E/301/04	Sampling Start Date:	21/01/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	Balaghat MC Pump House	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-26°C / Humidity-62%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.64	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.48	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	17.73	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)	0.92	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	78.71	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3158E/301/05

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Shailesh Pandey

Sampling Date: 21/01/2026  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3158E/3 01/05A	Kanki Sand Lease Pump House Upstream	Day Time	dB(A)Leq	IS 4758	54	-
2	Lab/PN/3158E/3 01/05B	Kanki Sand Lease Pump House Downstream	Day Time	dB(A)Leq	IS 4758	57	-
3	Lab/PN/3158E/3 01/05C	500 m Away From Shiv Mandir	Night Time	dB(A)Leq	IS 4758	50	-
4	Lab/PN/3158E/3 01/05D	Balaghat MC Pump House	Night Time	dB(A)Leq	IS 4758	63	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3158E/301/06

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

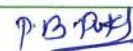
Lab ID:	Lab/PN/3158E/301/06	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand Lease River Pump House Upstream	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO <sub>3</sub>	298.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	71.34	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	65.97	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.92	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	35.47	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.55	-	IS 3025- Part 11	-
9	Sulphate	33.93	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	-
10	Total Dissolved Solids (TDS)	421.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	-

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/3158E/301/06

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3158E/301/06	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand Lease River Pump House Upstream	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
12	Total Hardness as CaCO3	324.00	mg/L	APHA 24th Edn 2340 C	-
13	Turbidity	0.85	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Total coliform	26	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	11	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	4.78	mg/L	APHA 24th Edn 4500 NO3 B	-

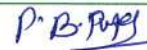
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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--- End of Report ---



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Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3158E/301/07

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

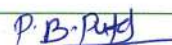
Lab ID:	Lab/PN/3158E/301/07	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand Lease River Pump House Down stream	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO <sub>3</sub>	276.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	64.12	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	71.97	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.84	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	31.10	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.57	-	IS 3025- Part 11	-
9	Sulphate	31.51	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	-
10	Total Dissolved Solids (TDS)	488.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	-

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



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Report Number: GGMP/L/PN/3158E/301/07

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3158E/301/07	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand Lease River Pump House Down stream	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
12	Total Hardness as CaCO3	288.00	mg/L	APHA 24th Edn 2340 C	-
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Total coliform	46	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	13	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	5.03	mg/L	APHA 24th Edn 4500 NO3 B	-

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3158E/301/08

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3158E/301/08	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Balaghat MC Pump House	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO <sub>3</sub>	320.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	68.93	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	69.97	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.68	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	40.82	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.61	-	IS 3025- Part 11	-
9	Sulphate	34.34	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	-
10	Total Dissolved Solids (TDS)	532.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO <sub>3</sub>	340.00	mg/L	APHA 24th Edn 2340 C	-

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



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Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3158E/301/08	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Balaghat MC Pump House	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Total coliform	32	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	11	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	6.59	mg/L	APHA 24th Edn 4500 NO3 B	-

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3158E/301/09

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3158E/301/09	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Ground Water	Analysis Start Date:	24/01/2026
Sample Description:	Borewell water Near Sand Lease	Analysis End Date:	30/01/2026
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 CaCO3	262.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	79.35	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	131.95	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.08	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	37.42	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.33	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	35.85	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	584.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	352.00	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

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3158E/301/09	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Ground Water	Analysis Start Date:	24/01/2026
Sample Description:	Borewell water Near Sand Lease	Analysis End Date:	30/01/2026
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	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	6.05	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




Reviewed & Authorized by  
Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/3158E/301/10

Reporting Date: 02.02.2026

**M/s Moil Limited**

Kanki (Balaghat) Sand Lease 4.413 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3158E/301/10	Sampling Start Date	: 21.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 22.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 24.01.2026
Sample Location	: Kanki Sand Lease Pump House Upstream		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMP/ SOP/MP/01
2	Relative Humidity	63.0	%	GGMP/ SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/ SOP/MP/01
4	Wind Speed	1.9	m/s	GGMP/ SOP/MP/01



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Gyanvati Shukla



----End of Report----



Reviewed & Authorized by

Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3158E/301/12

Reporting Date: 02.02.2026

**M/s Moil Limited**

Kanki (Balaghat) Sand Lease 5.503 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3158E/301/12	Sampling Start Date	: 21.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 22.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 24.01.2026
Sample Location	: 500 m Away From Shiv Mandir		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	58.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/3158E/301/13

Reporting Date: 02.02.2026

**M/s Moil Limited**

Kanki (Balaghat) Sand Lease 10.156 Ha Site, At & P.O Bharweli, Tah. Balaghat  
Dist. Balaghat 481102 (M.P)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3158E/301/13	Sampling Start Date	: 21.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 22.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 24.01.2026
Sample Location	: Balaghat MC Pump House		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/3159E/302/01

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3159E/302/01	Sampling Start Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	Kanki Sand River Bank	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-25°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.53	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	31.46	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.30	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)	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)	78.49	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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



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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/3159E/302/02

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3159E/302/02	Sampling Start Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	Kanki Sand 500m From River Bank	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-25°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.47	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.00	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.25	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	20.83	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)	75.54	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3159E/302/03

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

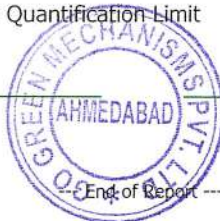
Lab ID:	Lab/PN/3159E/302/03	Sampling Start Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	Garra Village	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-25°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.05	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.68	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.19	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	19.44	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)	73.51	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/3159E/302/04

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3159E/302/04	Sampling Start Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	Majapur Village	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-25°C / Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	38.74	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.47	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	33.14	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.25	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	22.22	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.91	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	77.37	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3159E/302/05

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Shailesh pandey

Sampling Date: 21/01/2026  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3159E/3 02/05A	Kanki Sand River Bank	Day Time	dB(A)Leq	IS 4758	56	-
2	Lab/PN/3159E/3 02/05B	Kanki Sand 500 m From River Bank	Day Time	dB(A)Leq	IS 4758	56	-
3	Lab/PN/3159E/3 02/05C	Garra Village	Day Time	dB(A)Leq	IS 4758	52	-
4	Lab/PN/3159E/3 02/05D	Majapur Village	Day Time	dB(A)Leq	IS 4758	50	-

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

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Tantan Kumar



Reviewed & Authorized by  
Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3159E/302/06

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

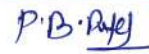
Lab ID:	Lab/PN/3159E/302/06	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand River Bank	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO <sub>3</sub>	208.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	50.10	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	55.48	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.81	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	24.30	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.45	-	IS 3025- Part 11	-
9	Sulphate	25.15	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	-
10	Total Dissolved Solids (TDS)	390.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	11.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO <sub>3</sub>	225.00	mg/L	APHA 24th Edn 2340 C	-

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/ PN/3159E/302/06

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3159E/302/06	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand River Bank	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	1	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Total coliform	26	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	11	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	4.53	mg/L	APHA 24th Edn 4500 NO3 B	-

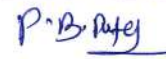
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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--- End of Report ---



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3159E/302/07

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)

Reporting Date : 02/02/2026



### SAMPLE DETAILS

Lab ID:	Lab/PN/3159E/302/07	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand 500m From River Bank	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO <sub>3</sub>	192.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	48.49	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	55.48	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.77	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	24.05	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.30	-	IS 3025- Part 11	-
9	Sulphate	27.37	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	-
10	Total Dissolved Solids (TDS)	375.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	13.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO <sub>3</sub>	220.00	mg/L	APHA 24th Edn 2340 C	-

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/3159E/302/07

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)




### SAMPLE DETAILS

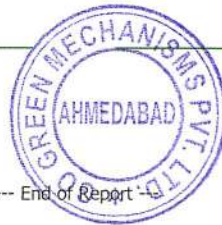
Lab ID:	Lab/PN/3159E/302/07	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand 500m From River Bank	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMP/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	0.5	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMP/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/SOP/W & WW/46	-
16	Total coliform	22	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	7.8	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	3.80	mg/L	APHA 24th Edn 4500 NO3 B	-

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3159E/302/08

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3159E/302/08	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Ground Water	Analysis Start Date:	24/01/2026
Sample Description:	Garra Village Borewell	Analysis End Date:	30/01/2026
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 <sub>3</sub>	230.00	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	35.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.56	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.51	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.55	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	21.11	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	350.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	240.00	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

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Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3159E/302/08	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Ground Water	Analysis Start Date:	24/01/2026
Sample Description:	Garra Village Borewell	Analysis End Date:	30/01/2026
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	0.75	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	3.05	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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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3159E/302/09

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3159E/302/09	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Ground Water	Analysis Start Date:	24/01/2026
Sample Description:	Majapar Village Borewell	Analysis End Date:	30/01/2026
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 <sub>3</sub>	190.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	47.69	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	58.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.82	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	26.97	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	28.38	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	365.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	230.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500.

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3159E/302/09

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3159E/302/09	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Ground Water	Analysis Start Date:	24/01/2026
Sample Description:	Majapar Village Borewell	Analysis End Date:	30/01/2026
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	0.60	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	4.03	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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




Reviewed & Authorized by  
Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---



Reviewed & Authorized by  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3159E/302/10

Reporting Date: 02.02.2026

**M/s Moil Limited**

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3159E/302/10	Sampling Start Date	: 21.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 22.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 24.01.2026
Sample Location	: Kanki Sand River Bank		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.9	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: GGMP/L/PN/3159E/302/11

Reporting Date: 02.02.2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3159E/302/11	Sampling Start Date	: 21.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 22.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 24.01.2026
Sample Location	: Kanki Sand 500m From River Bank		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMP/L/SOP/MP/01
2	Relative Humidity	63.0	%	GGMP/L/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/L/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMP/L/SOP/MP/01

  
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Gyanvati Shukla



  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3159E/302/12

Reporting Date: 02.02.2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3159E/302/12	Sampling Start Date	: 21.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 22.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 24.01.2026
Sample Location	: Garra Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla



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Manish Kumawat

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Page 1 of 1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3159E/302/13

Reporting Date: 02.02.2026

**M/s Moil Limited**

Kanki (Balaghat) Sand Lease 5.503 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3159E/302/13	Sampling Start Date	: 21.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 22.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 24.01.2026
Sample Location	: Majapur Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3160E/303/01

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/01	Sampling Start Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	Kanki Sand Lease Upstream	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-25°C/ Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.06	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	31.33	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.18	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)	0.92	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)	75.69	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

  
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Gyanvati Shukla



  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/3160E/303/02

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/02	Sampling Start Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	Kanki Sand Lease Downstream	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-25°C/ Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	39.57	µg/m3	GGMP/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.66	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.04	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.48	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	13.88	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)	0.95	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)	78.19	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3160E/303/03

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/03	Sampling Start Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	Near Pump House Balaghat Water Supply	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-25°C/ Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	35.40	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.79	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.80	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.55	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)	0.93	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	73.24	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGML/PN/3160E/303/04

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)




### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/04	Sampling Start Date:	21/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	22/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	24/01/2026
Sample Description:	Near Kanki Village	Analysis start- End Date:	24/01/2026-30/01/2026
Env. Cond.-Sampling:	Temp-25°C/ Humidity-63%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	32.49	µg/m3	GGML/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.64	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.79	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.48	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	13.88	µg/m3	GGML/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)	70.19	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standard.

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

  
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Gyanvati Shukla



  
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Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3160E/303/05

Reporting Date: 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



### SAMPLE DETAILS

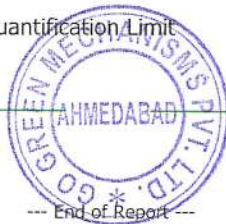
Sampling Instrument : Sound Level Meter  
Sample By : Shailesh Pandey

Sampling Date: 21/01/2026  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3160E/3 03/05A	Kanki Sand Lease Upstream	Day Time	dB(A)Leq	IS 4758	58	-
2	Lab/PN/3160E/3 03/05B	Kanki Sand Lease Downstream	Day Time	dB(A)Leq	IS 4758	57	-
3	Lab/PN/3160E/3 03/05C	Near Pump House Balaghat Water Supply	Day Time	dB(A)Leq	IS 4758	62	-
4	Lab/PN/3160E/3 03/05D	Near Kanki Village	Day Time	dB(A)Leq	IS 4758	52	-

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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3160E/303/06

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/06	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand Lease River Upstream	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO3	195.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	51.30	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	47.48	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.68	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	27.70	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.20	-	IS 3025- Part 11	-
9	Sulphate	24.64	mg/L	APHA 24th Edn 4500 SO4 E	-
10	Total Dissolved Solids (TDS)	355.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	10.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO3	242.00	mg/L	APHA 24th Edn 2340 C	-

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

*T H S*

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Tantan kumar & Dr. Haragobinda Srichandan



*P. B. Patel*

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/3160E/303/06

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/06	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand Lease River Upstream	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Total coliform	27	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	14	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	3.89	mg/L	APHA 24th Edn 4500 NO3 B	-

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/3160E/303/07

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



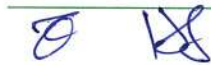
TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/07	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand Lease River Downstream	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGML/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO <sub>3</sub>	200.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	55.31	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	50.48	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.75	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	25.27	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.40	-	IS 3025- Part 11	-
9	Sulphate	27.57	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	-
10	Total Dissolved Solids (TDS)	375.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	14.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO <sub>3</sub>	242.00	mg/L	APHA 24th Edn 2340 C	-

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3160E/303/07

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/07	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Sand Lease River Downstream	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Total coliform	39	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	17	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	5.21	mg/L	APHA 24th Edn 4500 NO3 B	-

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3160E/303/08

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/08	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Ground Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Village Borewell	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

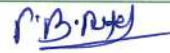
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	165.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	52.50	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	65.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.60	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	26.24	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.60	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	27.16	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	335.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	239.00	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/L/PN/3160E/303/08

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/08	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Ground Water	Analysis Start Date:	24/01/2026
Sample Description:	Kanki Village Borewell	Analysis End Date:	30/01/2026
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	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	4.32	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/3160E/303/09

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/09	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Moil Water Supply Pump House	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO <sub>3</sub>	198.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	54.10	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	47.98	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.75	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	27.94	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.65	-	IS 3025- Part 11	-
9	Sulphate	27.37	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	-
10	Total Dissolved Solids (TDS)	370.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO <sub>3</sub>	250.00	mg/L	APHA 24th Edn 2340 C	-

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/3160E/303/09

Reporting Date : 02/02/2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3160E/303/09	Sampling Date:	22/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	24/01/2026
Sample Type:	Surface Water	Analysis Start Date:	24/01/2026
Sample Description:	Moil Water Supply Pump House	Analysis End Date:	30/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Total coliform	22	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	11	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	3.80	mg/L	APHA 24th Edn 4500 NO3 B	-

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/3160E/303/10

Reporting Date: 02.02.2026

**M/s Moil Limited**

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab/PN/3160E/303/10	Sampling Start Date	: 21.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 22.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 24.01.2026
Sample Location	: Kanki Sand Lease Upstream		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla



Reviewed & Authorized by

Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3160E/303/11

Reporting Date: 02.02.2026

**M/s Moil Limited**

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID	: Lab/PN/3160E/303/11	Sampling Start Date	: 21.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 22.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 24.01.2026
Sample Location	: Kanki Sand Lease Downstream		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3160E/303/12

Reporting Date: 02.02.2026

M/s Moil Limited

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)




### SAMPLE DETAILS

Lab ID	: Lab/PN/3160E/303/12	Sampling Start Date	: 21.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 22.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 24.01.2026
Sample Location	: Near Pump House Balaghat Water Supply		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3160E/303/13

Reporting Date: 02.02.2026

**M/s Moil Limited**

Kanki (Balaghat) Sand Lease 10.156 Ha Site, Dist. Balaghat (M.P)




### SAMPLE DETAILS

Lab ID	: Lab/PN/3160E/303/13	Sampling Start Date	: 21.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 22.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 24.01.2026
Sample Location	: Near Kanki Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	63.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01

  
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