

CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/3061E/01/258/01

Reporting Date: 22/01/2026

M/s Moil Limited

Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/01	Sampling Start Date:	13/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	14/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	15/01/2026
Sample Description:	Near Work Shop	Analysis start- End Date:	16/01/2026-21/01/2026
Env. Cond.-Sampling:	Temp -25°C/Humidity-69%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	18.23	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.74	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.41	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	13.88	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.00	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)	69.59	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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

Reviewed & Authorized by
Tantan Kumar



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Manish Kumawat

End of Report

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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Reporting Date: 22/01/2026

M/s Moil Limited

Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

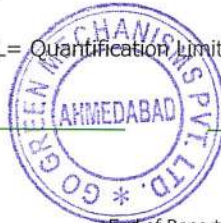
Lab ID:	Lab/PN/3061E/01/258/02	Sampling Start Date:	13/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	14/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	15/01/2026
Sample Description:	Near Check Post Main Gate	Analysis start- End Date:	16/01/2026-21/01/2026
Env. Cond.-Sampling:	Temp -25°C/Humidity-69%	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)	34.57	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.21	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.30	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.18	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.27	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.03	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)	73.68	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/03	Sampling Start Date:	13/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	14/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	15/01/2026
Sample Description:	Near Gumgaon Village Grampanchayat	Analysis start- End Date:	16/01/2026-21/01/2026
Env. Cond.-Sampling:	Temp -25°C/Humidity-69%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.75	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.96	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.07	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)	1.06	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	75.37	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/3061E/01/258/04

Reporting Date: 22/01/2026

M/s Moil Limited

Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/04	Sampling Start Date:	13/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	14/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	15/01/2026
Sample Description:	Near Crushing Plant	Analysis start- End Date:	16/01/2026-21/01/2026
Env. Cond.-Sampling:	Temp -25°C/Humidity-69%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	38.32	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.68	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.42	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.25	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	18.05	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	77.71	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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SAMPLE DETAILS

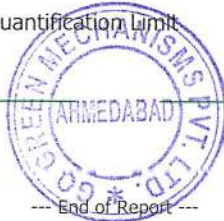
Sampling Instrument : Sound Level Meter
Sample By : Shailesh Pandey

Sampling Date: 13/01/2026
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3061E/0 1/258/05A	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	66	-
2	Lab/PN/3061E/0 1/258/05B	Near Check Post Main Gate	Day Time	dB(A)Leq	IS 4758	59	-
3	Lab/PN/3061E/0 1/258/05C	Near Gumgaon Village Grampanchayat	Day Time	dB(A)Leq	IS 4758	56	-
4	Lab/PN/3061E/0 1/258/05D	Near Bus Stand Khapa Village	Day Time	dB(A)Leq	IS 4758	59	-

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Tarun Kumar



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Reporting Date : 22/01/2026

M/s Moil Limited

Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/06	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Ground Water	Analysis Start Date:	15/01/2026
Sample Description:	Officer Colony Borewell	Analysis End Date:	21/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

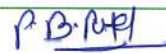
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	298.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	84.16	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	70.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.3617	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	36.45	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	45.65	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	520.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	360.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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Tantan kumar & Dr. Haragobinda Srichandan

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Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Ground Water	Analysis Start Date:	15/01/2026
Sample Description:	Officer Colony Borewell	Analysis End Date:	21/01/2026
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	5.88	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

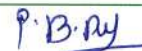
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Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

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Nagpur 441101



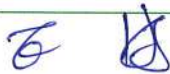
SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/07	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Ground Water	Analysis Start Date:	15/01/2026
Sample Description:	Staff Quarter Borewell	Analysis End Date:	21/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	340.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	96.19	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	98.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.38	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	43.74	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.22	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	54.23	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	648.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	420.00	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/3061E/01/258/07

Reporting Date : 22/01/2026

M/s Moil Limited

Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/07	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Ground Water	Analysis Start Date:	15/01/2026
Sample Description:	Staff Quarter Borewell	Analysis End Date:	21/01/2026
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	6.98	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/3061E/01/258/08

Reporting Date : 22/01/2026

M/s Moil Limited

Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/08	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Ground Water	Analysis Start Date:	15/01/2026
Sample Description:	Khapa Village Hand pump	Analysis End Date:	21/01/2026
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	380.00	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	94.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.26	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	7.34	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	51.20	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	680.00	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	430.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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

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Payal Patel

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Report Number: GGMP/ PN/3061E/01/258/08

Reporting Date : 22/01/2026

M/s Moil Limited

Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/08	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Ground Water	Analysis Start Date:	15/01/2026
Sample Description:	Khapa Village Hand pump	Analysis End Date:	21/01/2026
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	5.86	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/3061E/01/258/09

Reporting Date : 22/01/2026

M/s Moil Limited

Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/09	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Ground Water	Analysis Start Date:	15/01/2026
Sample Description:	Kodegaon Village Grampanchayat Hand Pump	Analysis End Date:	21/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	350.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	64.12	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	65.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.06	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	53.46	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.38	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	52.62	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	610.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS

AL & PL as per IS 10500

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

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P. B. Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3061E/01/258/09

Reporting Date : 22/01/2026

M/s Moil Limited

Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/09	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Ground Water	Analysis Start Date:	15/01/2026
Sample Description:	Kodegaon Village Grampanchayat Hand Pump	Analysis End Date:	21/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	380.00	mg/L	APHA 24th Edn 2340 C	200	600
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	4.24	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/3061E/01/258/10

Reporting Date : 22/01/2026

M/s Moil Limited

Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/10	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Waste Water	Analysis Start Date:	15/01/2026
Sample Description:	STP Outlet	Analysis End Date:	21/01/2026
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	7.35	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids (TSS)	62.00	mg/L	APHA 24th Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand (COD)	72.00	mg/L	APHA 24th Edn 5220 B	250
5	Dissolved Oxygen	4.00	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	20.83	mg/L	IS 3025- Part 44	30
7	Manganese	0.71	mg/L	GGMP/L/SOP/W&WW/46	2

Norms as per CTO.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3061E/01/258/11

Reporting Date : 22/01/2026

M/s Moil Limited

Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3061E/01/258/11	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Waste Water	Analysis Start Date:	15/01/2026
Sample Description:	Mine Discharge Water	Analysis End Date:	21/01/2026
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

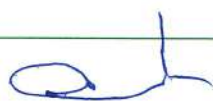
Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.71	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	45.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	32.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	8.57	mg/L	IS 3025- Part 44	-
7	Manganese	1.32	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3061E/01/258/12

Reporting Date: 22.01.2026

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist.
Nagpur 441101



SAMPLE DETAILS

Lab ID	: Lab/PN/3061E/01/258/12	Sampling Start Date	: 13.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 14.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 15.01.2026
Sample Location	: Near Work Shop		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	69.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01



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Tanta Kumar



---End of Report---



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3061E/01/258/13

Reporting Date: 22.01.2026

M/s Moil Limited


Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur 441101




SAMPLE DETAILS

Lab ID	: Lab/PN/3061E/01/258/13	Sampling Start Date	: 13.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 14.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 15.01.2026
Sample Location	: Near Check Post Main Gate		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	69.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01


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Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3061E/01/258/14

Reporting Date: 22.01.2026

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah, Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/3061E/01/258/14	Sampling Start Date	: 13.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 14.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 15.01.2026
Sample Location	: Near Gumgaon Village Grampanchayat		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	69.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/3061E/01/258/15

Reporting Date: 22.01.2026

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist.
Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/3061E/01/258/15	Sampling Start Date	: 13.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 14.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 15.01.2026
Sample Location	: Near Crushing Plant		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMP/SOP/MP/01
2	Relative Humidity	69.0	%	GGMP/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/SOP/MP/01
4	Wind Speed	1.3	m/s	GGMP/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/3062E/01/259/01

Reporting Date: 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/01	Sampling Start Date:	13/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	14/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	15/01/2026
Sample Description:	Near Rest House	Analysis start- End Date:	15/01/2026-21/01/2026
Env. Cond.-Sampling:	Temp-25°C/ Humidity-69%	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)	36.65	µg/m3	GGMP/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.75	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.41	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.41	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)	1.06	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	74.12	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/3062E/01/259/02

Reporting Date: 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/02	Sampling Start Date:	13/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	14/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	15/01/2026
Sample Description:	Near Sand Lease Area	Analysis start- End Date:	15/01/2026-21/01/2026
Env. Cond.-Sampling:	Temp-25°C/ Humidity-69%	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)	41.65	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.16	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.88	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)	1.10	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)	76.87	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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Report Number : GGMPL/PN/3062E/01/259/03

Reporting Date: 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/03	Sampling Start Date:	13/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	14/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	15/01/2026
Sample Description:	Near Haul Road	Analysis start- End Date:	15/01/2026-21/01/2026
Env. Cond.-Sampling:	Temp-25°C/ Humidity-69%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	42.07	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	18.05	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	33.21	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.78	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	18.05	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.10	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)	81.56	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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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/3062E/01/259/04

Reporting Date: 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/04	Sampling Start Date:	13/01/2026
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	14/01/2026
Sample Type:	Ambient Air	Sample Receipt Date:	15/01/2026
Sample Description:	Near Filtration Plant (WTP)	Analysis start- End Date:	15/01/2026-21/01/2026
Env. Cond.-Sampling:	Temp-25°C/ Humidity-69%	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)	14.73	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.14	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.48	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.27	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	66.53	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/3062E/01/259/05

Reporting Date: 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Shailesh Panday

Sampling Date: 13/01/2026
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3062E/0 1/259/05A	Near Rest House	Day Time	dB(A)Leq	IS 4758	56	-
2	Lab/PN/3062E/0 1/259/05B	Near Sand Lease Area	Day Time	dB(A)Leq	IS 4758	58	-
3	Lab/PN/3062E/0 1/259/05C	Near Haul Road	Day Time	dB(A)Leq	IS 4758	67	-
4	Lab/PN/3062E/0 1/259/05D	Near Filtration Plant (WTP)	Day Time	dB(A)Leq	IS 4758	63	-

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

Reviewed & Authorized by
Gyanvati Shukla



Reviewed & Authorized by
Manish Kumawat

--- End of Report ---

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3062E/01/259/06

Reporting Date : 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/06	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Ground Water	Analysis Start Date:	15/01/2026
Sample Description:	Rest House Borewell	Analysis End Date:	21/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	268.00	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	24.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.64	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	7.35	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	15.25	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	385.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	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



Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan




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Payal Patel

Page No : 1/2

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Report Number: GGMP/ PN/3062E/01/259/06

Reporting Date : 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/06	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Ground Water	Analysis Start Date:	15/01/2026
Sample Description:	Rest House Borewell	Analysis End Date:	21/01/2026
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	0.16	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	2.72	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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Tarun Kumar & Dr. Haragobinda Srlichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3062E/01/259/07

Reporting Date : 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/07	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Surface Water	Analysis Start Date:	15/01/2026
Sample Description:	Up Stream Rajna River	Analysis End Date:	21/01/2026
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 ₃	135.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	34.06	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	15.49	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.70	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	14.58	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.62	-	IS 3025- Part 11	-
9	Sulphate	12.52	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	212.00	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 ₃	145.00	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 Srichandani



P. B. Patel

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Report Number: GGMPL/PN/3062E/01/259/07

Reporting Date : 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/07	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Surface Water	Analysis Start Date:	15/01/2026
Sample Description:	Up Stream Rajna River	Analysis End Date:	21/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	0.23	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	240	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	33	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	1.93	mg/L	APHA 24th Edn 4500 NO3 B	-

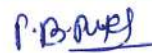
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMLP/PN/3062E/01/259/08

Reporting Date : 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/08	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	15/01/2026
Sample Type:	Surface Water	Analysis Start Date:	15/01/2026
Sample Description:	Down Stream Rajna River	Analysis End Date:	21/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMLP/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	132.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	34.06	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	14.99	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.47	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	11.42	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.77	-	IS 3025- Part 11	-
9	Sulphate	5.25	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	191.00	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 ₃	132.00	mg/L	APHA 24th Edn 2340 C	-

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



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Report Number: GGMP/L/PN/3062E/01/259/08

Reporting Date : 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/08	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	15/01/2026
Sample Type:	Surface Water	Analysis Start Date:	15/01/2026
Sample Description:	Down Stream Rajna River	Analysis End Date:	21/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	0.31	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	13	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	1.90	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/3062E/01/259/09

Reporting Date : 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/09	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Drinking Water	Analysis Start Date:	15/01/2026
Sample Description:	WTP Outlet Water	Analysis End Date:	21/01/2026
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	184.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	50.50	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	25.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	23.32	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.75	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	22.42	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	292.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	222.00	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/3062E/01/259/09

Reporting Date : 21/01/2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

Lab ID:	Lab/PN/3062E/01/259/09	Sampling Date:	14/01/2026
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	15/01/2026
Sample Type:	Drinking Water	Analysis Start Date:	15/01/2026
Sample Description:	WTP Outlet Water	Analysis End Date:	21/01/2026
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	0.84	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.32	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

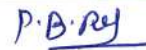
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---



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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3062E/01/259/10

Reporting Date: 21.01.2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

Lab ID	: Lab/PN/3062E/01/259/10	Sampling Start Date	: 13.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 14.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 15.01.2026
Sample Location	: Near Rest House		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	69.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.25	m/s	GGMPL/SOP/MP/01



Reviewed & Authorized by

Gyanvati Shukla




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Manish Kumawat

---End of Report---

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/3062E/01/259/11

Reporting Date: 21.01.2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

Lab ID	: Lab/PN/3062E/01/259/11	Sampling Start Date	: 13.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 14.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 15.01.2026
Sample Location	: Near Sand Lease Area		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	69.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.25	m/s	GGMPL/SOP/MP/01



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Report Number: GGMP/L/PN/3062E/01/259/12

Reporting Date: 21.01.2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/3062E/01/259/12	Sampling Start Date	: 13.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 14.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 15.01.2026
Sample Location	: Near Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	69.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.25	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/3062E/01/259/13

Reporting Date: 21.01.2026

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/3062E/01/259/13	Sampling Start Date	: 13.01.2026
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 14.01.2026
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 15.01.2026
Sample Location	: Near Filtration Plant (WTP)		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	25.0	°C	GGMP/SOP/MP/01
2	Relative Humidity	69.0	%	GGMP/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/SOP/MP/01
4	Wind Speed	1.25	m/s	GGMP/SOP/MP/01



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