

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2177E/258/01

Reporting Date: 14/11/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2177E/258/01	Sampling Start Date:	05/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	06/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	08/11/2025
Sample Description:	Near Work Shop	Analysis start- End Date:	08/11/2025-13/11/2025
Env. Cond.-Sampling:	Temp-28°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)	37.91	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	20.77	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.01	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.39	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.40	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)	71.92	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/2177E/258/02

Reporting Date: 14/11/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2177E/258/02	Sampling Start Date:	05/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	06/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	08/11/2025
Sample Description:	Near Check Post Main Gate	Analysis start- End Date:	08/11/2025-13/11/2025
Env. Cond.-Sampling:	Temp-28°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)	36.66	µg/m3	GGMP/L/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.25	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	33.76	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.43	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.81	µg/m3	GGMP/L/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	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)	75.07	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/2177E/258/03

Reporting Date: 14/11/2025

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/2177E/258/03	Sampling Start Date:	05/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	06/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	08/11/2025
Sample Description:	Near Gumgaon Village Grampanchayat	Analysis start- End Date:	08/11/2025-13/11/2025
Env. Cond.-Sampling:	Temp-28°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)	39.57	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.26	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.50	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.43	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.41	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)	1.077	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)	77.46	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/2177E/258/04

Reporting Date: 14/11/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2177E/258/04	Sampling Start Date:	05/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	06/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	08/11/2025
Sample Description:	Near Crushing Plant	Analysis start- End Date:	08/11/2025-13/11/2025
Env. Cond.-Sampling:	Temp-28°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)	40.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.21	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	31.19	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.11	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.80	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)	79.72	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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Reporting Date: 14/11/2025

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

Sampling Instrument : Sound Level Meter
Sample By : Shailesh Pandey

Sampling Date: 05/11/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2177E/258/05A	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	65	-
2	Lab/PN/2177E/258/05B	Near Check Post Main Gate	Day Time	dB(A)Leq	IS 4758	60	-
3	Lab/PN/2177E/258/05C	Near Gumgaon Village	Day Time	dB(A)Leq	IS 4758	55	-
4	Lab/PN/2177E/258/05D	Near Bus Stand Khapa Village	Day Time	dB(A)Leq	IS 4758	57	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2177E/258/06

Reporting Date : 14/11/2025

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/2177E/258/06	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Ground Water	Analysis Start Date:	08/11/2025
Sample Description:	Officer Colony Borewell	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	290.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	81.76	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	66.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.22	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	33.53	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.08	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	41.13	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	490.00	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	342.00	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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Gumgaon Manganese Mines (M.S) L1-212.76 Ha P.O Khapa Tah. Saoner Dist.
Nagpur 441101



SAMPLE DETAILS

Lab ID:	Lab/PN/2177E/258/06	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Ground Water	Analysis Start Date:	08/11/2025
Sample Description:	Officer Colony Borewell	Analysis End Date:	13/11/2025
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	5.62	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.

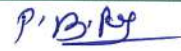
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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2177E/258/07

Reporting Date : 14/11/2025

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/2177E/258/07	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Ground Water	Analysis Start Date:	08/11/2025
Sample Description:	Staff Quarter Borewell	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	325.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	86.57	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	89.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.32	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	43.25	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.16	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	50.05	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
12	Total Hardness as CaCO ₃	394.00	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: GGMP/L/PN/2177E/258/07

Reporting Date : 14/11/2025

M/s Moil Limited

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



TC-7073

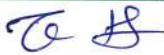
SAMPLE DETAILS

Lab ID:	Lab/PN/2177E/258/07	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Ground Water	Analysis Start Date:	08/11/2025
Sample Description:	Staff Quarter Borewell	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W & WW/46	0.1	0.3
16	Nitrate	5.21	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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



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Tantan kumar & Dr. Haragobinda Srichandan



--- End of Report ---



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGML/PN/2177E/258/08

Reporting Date : 14/11/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2177E/258/08	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Ground Water	Analysis Start Date:	08/11/2025
Sample Description:	Khapa Village Hand pump	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGML/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	360.0	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	62.52	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	80.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.14	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	58.80	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	45.39	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	640.00	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	398.00	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

T. S.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2177E/258/08

Reporting Date : 14/11/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2177E/258/08	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Ground Water	Analysis Start Date:	08/11/2025
Sample Description:	Khapa Village Hand pump	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	6.04	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

T H

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Tantan kumar & Dr. Haragobinda Srichandan



End of Report

P. Patel

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2177E/258/09

Reporting Date : 14/11/2025

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/2177E/258/09	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Ground Water	Analysis Start Date:	08/11/2025
Sample Description:	Kodegaon Village Grampanchayat Hand Pump	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	375.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	64.13	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	73.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.18	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	59.29	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.44	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	57.42	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	670.00	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2177E/258/09

Reporting Date : 14/11/2025

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/2177E/258/09	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Ground Water	Analysis Start Date:	08/11/2025
Sample Description:	Kodegaon Village Grampanchayat Hand Pump	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	404.00	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	3.12	mg/L	APHA 24th Edn 4500 NO ₃ B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2177E/258/10

Reporting Date : 14/11/2025

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/2177E/258/10	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Waste Water	Analysis Start Date:	08/11/2025
Sample Description:	STP Outlet	Analysis End Date:	13/11/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

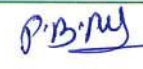
Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.55	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids (TSS)	36.0	mg/L	APHA 24th Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand (COD)	56.00	mg/L	APHA 24th Edn 5220 B	250
5	Dissolved Oxygen	3.80	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	17	mg/L	IS 3025- Part 44	30
7	Manganese	0.72	mg/L	GGMPL/SOP/W&WW/46	2

Norms as per CTO.

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


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Tantan Kumar




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2177E/258/11

M/s Moil Limited

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

Reporting Date : 14/11/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2177E/258/11	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Waste Water	Analysis Start Date:	08/11/2025
Sample Description:	Mine Discharge Water	Analysis End Date:	13/11/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.80	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	30.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	24.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.6	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	6.9	mg/L	IS 3025- Part 44	-
7	Manganese	1.17	mg/L	GGMPL/SOP/W&WW/46	-

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


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Tantan Kumar




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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2177E/258/12

Reporting Date: 18.11.2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/2177E/258/12	Sampling Start Date	: 05.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 06.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 08.11.2025
Sample Location	: Near Work Shop		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMP/L/SOP/MP/01
2	Relative Humidity	62.0	%	GGMP/L/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/L/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMP/L/SOP/MP/01


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 Tantan Kumar




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 Payal Patel

----End of Report----

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/2177E/258/13

Reporting Date: 18.11.2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/2177E/258/13	Sampling Start Date	: 05.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 06.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 08.11.2025
Sample Location	: Near Check Post Main Gate		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	62.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/2177E/258/14

Reporting Date: 18.11.2025

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/2177E/258/14	Sampling Start Date	: 05.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 06.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 08.11.2025
Sample Location	: Near Gumgaon Village Grampanchayat		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	62.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.4	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/2177E/258/15

Reporting Date: 18.11.2025

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/2177E/258/15	Sampling Start Date	: 05.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 06.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 08.11.2025
Sample Location	: Near Crushing Plant		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMP/ SOP/MP/01
2	Relative Humidity	62.0	%	GGMP/ SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/ SOP/MP/01
4	Wind Speed	1.4	m/s	GGMP/ SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/2178E/259/01

Reporting Date: 14/11/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/01	Sampling Start Date:	05/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	06/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	08/11/2025
Sample Description:	Near Rest House	Analysis start- End Date:	08/11/2025-13/11/2025
Env. Cond.-Sampling:	Temp-28°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)	34.16	µg/m3	GGMP/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.26	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.43	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.19	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.60	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)	1.00	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)	69.37	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/2178E/259/02

Reporting Date: 14/11/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/02	Sampling Start Date:	05/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	06/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	08/11/2025
Sample Description:	Near Sand Lease Area	Analysis start- End Date:	08/11/2025-13/11/2025
Env. Cond.-Sampling:	Temp-28°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)	39.57	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.21	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.18	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.15	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.00	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)	72.39	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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Report Number : GGMPL/PN/2178E/259/03

Reporting Date: 14/11/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/03	Sampling Start Date:	05/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	06/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	08/11/2025
Sample Description:	Near Haul Road	Analysis start- End Date:	08/11/2025-13/11/2025
Env. Cond.-Sampling:	Temp-28°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)	40.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.57	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.27	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.15	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.41	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)	77.64	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/2178E/259/04

Reporting Date: 14/11/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/04	Sampling Start Date:	05/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	06/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	08/11/2025
Sample Description:	Near Filtration Plant (WTP)	Analysis start- End Date:	08/11/2025-13/11/2025
Env. Cond.-Sampling:	Temp-28°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)	13.39	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.18	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.43	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.40	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)	1.04	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	62.58	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/2178E/259/05

Reporting Date: 14/11/2025

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 Pandey

Sampling Date: 05/11/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2178E/2 59/05A	Near Rest House	Day Time	dB(A)Leq	IS 4758	58	-
2	Lab/PN/2178E/2 59/05B	Near Sand Lease Area	Day Time	dB(A)Leq	IS 4758	56	-
3	Lab/PN/2178E/2 59/05C	Near Haul Road	Day Time	dB(A)Leq	IS 4758	60	-
4	Lab/PN/2178E/2 59/05D	Near Filtration Plant (WTP)	Day Time	dB(A)Leq	IS 4758	62	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2178E/259/06

Reporting Date : 14/11/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/06	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Ground Water	Analysis Start Date:	08/11/2025
Sample Description:	Rest House Borewell	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	250.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	50.50	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	18.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.59	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.30	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.31	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	10.67	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	352.00	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	226.00	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: GGMPL/PN/2178E/259/06

Reporting Date : 14/11/2025

M/s Moil Limited

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



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/06	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Ground Water	Analysis Start Date:	08/11/2025
Sample Description:	Rest House Borewell	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.30	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	2.68	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

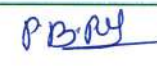
AL & PL as per IS 10500.

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


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Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2178E/259/07

Reporting Date : 14/11/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/07	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Surface Water	Analysis Start Date:	08/11/2025
Sample Description:	Up Stream Rajna River	Analysis End Date:	13/11/2025
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	120.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	32.06	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	10.49	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.66	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	10.93	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	9.21	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	180.00	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	200.00	mg/L	APHA 24th Edn 2340 C	-

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/2178E/259/07

Reporting Date : 14/11/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/07	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Surface Water	Analysis Start Date:	08/11/2025
Sample Description:	Up Stream Rajna River	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	0.20	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	Nitrate	1.89	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	350	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	33	MPN/100ml	APHA 9221G 24th Edition	-

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2178E/259/08

Reporting Date : 14/11/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/08	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	08/11/2025
Sample Type:	Surface Water	Analysis Start Date:	08/11/2025
Sample Description:	Down Stream Rajna River	Analysis End Date:	13/11/2025
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	120.0	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	32.06	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	11.49	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.43	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	10.69	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.70	-	IS 3025- Part 11	-
9	Sulphate	3.20	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	165.00	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	124.00	mg/L	APHA 24th Edn 2340 C	-

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



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M/s Moil Limited

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

Reporting Date : 14/11/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/08	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	08/11/2025
Sample Type:	Surface Water	Analysis Start Date:	08/11/2025
Sample Description:	Down Stream Rajna River	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	0.25	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	Nitrate	1.87	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	26	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	17	MPN/100ml	APHA 9221G 24th Edition	-

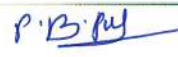
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2178E/259/09

Reporting Date : 14/11/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/09	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Drinking Water	Analysis Start Date:	08/11/2025
Sample Description:	WTP Outlet Water	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	175.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	49.30	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	21.99	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	21.14	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.60	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	19.40	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	255.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	210.00	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/2178E/259/09

Reporting Date : 14/11/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2178E/259/09	Sampling Date:	06/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	08/11/2025
Sample Type:	Drinking Water	Analysis Start Date:	08/11/2025
Sample Description:	WTP Outlet Water	Analysis End Date:	13/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	0.1	0.3
15	Fluoride	0.80	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.05	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 ---



Reviewed & Authorized by
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2178E/259/10

Reporting Date: 14.11.2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2178E/259/10	Sampling Start Date	: 05.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 06.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 08.11.2025
Sample Location	: Near Rest House		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	62.0	%	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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Tantan Kumar




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Payal Patel

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Report Number: GGMP/ PN/2178E/259/11

Reporting Date: 14.11.2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2178E/259/11	Sampling Start Date	: 05.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 06.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 08.11.2025
Sample Location	: Near Sand Lease Area		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMP/ SOP/MP/01
2	Relative Humidity	62.0	%	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/2178E/259/12

Reporting Date: 14.11.2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2178E/259/12	Sampling Start Date	: 05.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 06.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 08.11.2025
Sample Location	: Near Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	62.0	%	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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Tantan Kumar



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/2178E/259/13

Reporting Date: 14.11.2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/2178E/259/13	Sampling Start Date	: 05.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 06.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 08.11.2025
Sample Location	: Near Filtration Plant (WTP)		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMP/SOP/MP/01
2	Relative Humidity	62.0	%	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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