

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1164E/258/01

Reporting Date: 11/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1164E/258/01	Sampling Start Date:	01/08/2025
Sample Drawn By:	Shailesh kumar	Sampling End Date:	02/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2025
Sample Description:	Near Work Shop	Analysis start- End Date:	04/08/2025-08/08/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-68%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.99	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.22	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	10.83	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.09	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)	66.48	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/1164E/258/02

Reporting Date: 11/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1164E/258/02	Sampling Start Date:	01/08/2025
Sample Drawn By:	Shailesh kumar	Sampling End Date:	02/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2025
Sample Description:	Near Check Post Main Gate	Analysis start- End Date:	04/08/2025-08/08/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-68%	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)	33.33	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.12	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.57	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.06	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.78	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)	0.97	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	67.93	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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Tantan Kumar



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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1164E/258/03

Reporting Date: 11/08/2025

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/1164E/258/03	Sampling Start Date:	01/08/2025
Sample Drawn By:	Shailesh kumar	Sampling End Date:	02/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2025
Sample Description:	Near Gumgaon Village Grampanchayat	Analysis start- End Date:	04/08/2025-08/08/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-68%	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	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.05	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.98	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.06	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.78	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)	69.73	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/1164E/258/04

Reporting Date: 11/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1164E/258/04	Sampling Start Date:	01/08/2025
Sample Drawn By:	Shailesh kumar	Sampling End Date:	02/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2025
Sample Description:	Near Crushing Plant	Analysis start- End Date:	04/08/2025-08/08/2025
Env. Cond.-Sampling:	Temp-27°C /Humidity - 68%	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)	16.06	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.38	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.85	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	63.48	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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Reporting Date: 11/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Shailesh Pandey

Sampling Date:

01/08/2025

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1164E/258/05A	Near Vertical Fan	Day Time	dB(A)Leq	IS 4758	64.1	-
2	Lab/PN/1164E/258/05B	Near Check Post Main Gate	Day Time	dB(A)Leq	IS 4758	62.3	-
3	Lab/PN/1164E/258/05C	Near Gumgaon Village Grampanchayat	Day Time	dB(A)Leq	IS 4758	60.2	-
4	Lab/PN/1164E/258/05D	Near Bus Stand Khapa Village	Day Time	dB(A)Leq	IS 4758	61.7	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/LN/1164E/258/06

Reporting Date: 11.08.2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/1164E/258/06	Sampling Start Date	: 01.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04.08.2025
Sample Location	: Near Work Shop		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	68.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.6	m/s	GGMPL/SOP/MP/01

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---End of Report---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/07

Reporting Date: 11.08.2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/1164E/258/07	Sampling Start Date	: 01.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04.08.2025
Sample Location	: Near Check Post Main Gate		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	68.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.6	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/08

Reporting Date: 11.08.2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/1164E/258/08	Sampling Start Date	: 01.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04.08.2025
Sample Location	: Near Gumgaon Village Grampanchayat		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	68.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.6	m/s	GGMPL/SOP/MP/01

Wind Direction= NW

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End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/09

Reporting Date: 11.08.2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/1164E/258/09	Sampling Start Date	: 01.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04.08.2025
Sample Location	: Near Crushing Plant		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	68.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.6	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/10

Reporting Date : 11/08/2025

M/s Moil Limited

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



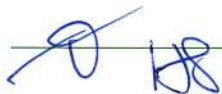
SAMPLE DETAILS

Lab ID:	Lab/PN/1164E/258/10	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Ground Water	Analysis Start Date:	04/08/2025
Sample Description:	Officer Colony Borewell	Analysis End Date:	08/08/2025
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	289.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	67.33	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	40.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.02	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	33.05	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	32.24	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	479.00	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	304.00	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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Page No : 1/2

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Report Number: GGMPL/PN/1164E/258/10

Reporting Date : 11/08/2025

M/s Moil Limited

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



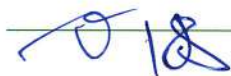
SAMPLE DETAILS

Lab ID:	Lab/PN/1164E/258/10	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Ground Water	Analysis Start Date:	04/08/2025
Sample Description:	Officer Colony Borewell	Analysis End Date:	08/08/2025
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	0.2	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	5.25	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/1164E/258/11

Reporting Date : 11/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1164E/258/11	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Ground Water	Analysis Start Date:	04/08/2025
Sample Description:	Staff Quarter Borewell	Analysis End Date:	08/08/2025
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	220.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	73.75	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	16.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.34	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.52	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.13	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	32.44	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	342.00	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	252.00	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: GGMPL/PN/1164E/258/11

Reporting Date : 11/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/1164E/258/11
Sample Drawn By: Shailesh kumar
Sample Type: Ground Water
Sample Description: Staff Quarter Borewell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 02/08/2025
Sample Receipt Date: 04/08/2025
Analysis Start Date: 04/08/2025
Analysis End Date: 08/08/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.1	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.62	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.

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/12

Reporting Date : 11/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1164E/258/12	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Ground Water	Analysis Start Date:	04/08/2025
Sample Description:	Khapa Village Hand pump	Analysis End Date:	08/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

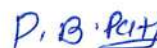
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	295.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	84.17	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	13.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.44	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.09	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.05	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	1.04	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	364.00	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	268.00	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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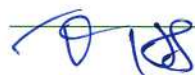
SAMPLE DETAILS

Lab ID:	Lab/PN/1164E/258/12	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Ground Water	Analysis Start Date:	04/08/2025
Sample Description:	Khapa Village Hand pump	Analysis End Date:	08/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

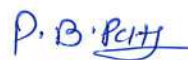
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.02	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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



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Reporting Date : 11/08/2025

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441101



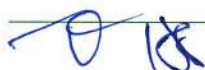
SAMPLE DETAILS

Lab ID:	Lab/PN/1164E/258/13	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Ground Water	Analysis Start Date:	04/08/2025
Sample Description:	Kodegaon Village Grampanchayat Hand Pump	Analysis End Date:	08/08/2025
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	402.00	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	45.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.32	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	47.63	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.40	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	69.17	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	620.00	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.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/13

Reporting Date : 11/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1164E/258/13	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Ground Water	Analysis Start Date:	04/08/2025
Sample Description:	Kodegaon Village Grampanchayat Hand Pump	Analysis End Date:	08/08/2025
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	352.00	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	2.56	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.

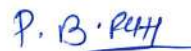
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



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Reviewed & Authorized by
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/14

M/s Moil Limited

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

Reporting Date : 11/08/2025



SAMPLE DETAILS

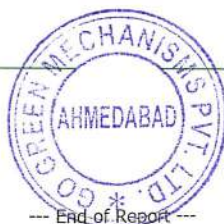
Lab ID:	Lab/PN/1164E/258/14	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Waste Water	Analysis Start Date:	04/08/2025
Sample Description:	STP Outlet	Analysis End Date:	08/08/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.28	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids (TSS)	90.0	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)	92.00	mg/L	APHA 24th Edn 5220 B	250
5	Dissolved Oxygen	4.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	22	mg/L	IS 3025- Part 44	30
7	Manganese	0.88	mg/L	GGMPL/SOP/W&WW/46	2

Norms as per CTO.

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

Reviewed & Authorized by
Tantan Kumar



Reviewed & Authorized by
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/15

Reporting Date : 11/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1164E/258/15	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Waste Water	Analysis Start Date:	04/08/2025
Sample Description:	Mine Discharge Water	Analysis End Date:	08/08/2025
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	7.78	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	52.00	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	6.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	8.79	mg/L	IS 3025- Part 44	-
7	Manganese	1.44	mg/L	GGMPL/SOP/W&WW/46	-

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

Reviewed & Authorized by
Tantan Kumar



--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1165E/259/01

Reporting Date: 09/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1165E/259/01	Sampling Start Date:	01/08/2025
Sample Drawn By:	Shailesh kumar	Sampling End Date:	02/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2025
Sample Description:	Near Rest House	Analysis start- End Date:	04/08/2025-08/08/2025
Env. Cond.-Sampling:	Temp-26°C / Humidity-68%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.78	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.68	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.24	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	0.96	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)	66.10	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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1165E/259/02

Reporting Date: 09/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1165E/259/02	Sampling Start Date:	01/08/2025
Sample Drawn By:	Shailesh kumar	Sampling End Date:	02/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2025
Sample Description:	Near Sand Lease Area	Analysis start- End Date:	04/08/2025-08/08/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-68%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.86	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.52	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.48	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.04	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)	62.17	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/1165E/259/03

Reporting Date: 09/08/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1165E/259/03	Sampling Start Date:	01/08/2025
Sample Drawn By:	Shailesh kumar	Sampling End Date:	02/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2025
Sample Description:	Near Haul Road	Analysis start- End Date:	04/08/2025-08/08/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-68%	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)	35.83	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.93	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.93	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	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)	64.40	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/1165E/259/04

Reporting Date: 09/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1165E/259/04	Sampling Start Date:	01/08/2025
Sample Drawn By:	Shailesh kumar	Sampling End Date:	02/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	04/08/2025
Sample Description:	Near Filtration Plant (WTP)	Analysis start- End Date:	04/08/2025-08/08/2025
Env. Cond.-Sampling:	Temp-26°C/ Humidity-68%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.53	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.71	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.80	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	59.24	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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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/259/05

Reporting Date: 09/08/2025

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

Sampling Date:

01/08/2025

Sample By Shailesh Pandey

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1165E/259/05A	Near Rest House	Day Time	dB(A)Leq	IS 4758	59	-
2	Lab/PN/1165E/259/05B	Near Sand Lease Area	Day Time	dB(A)Leq	IS 4758	58	-
3	Lab/PN/1165E/259/05C	Near Haul Road	Day Time	dB(A)Leq	IS 4758	61	-
4	Lab/PN/1165E/259/05D	Near Filtration Plant (WTP)	Day Time	dB(A)Leq	IS 4758	65	-

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

Reviewed & Authorized by
Gyanvati Shukla



Reviewed & Authorized by
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/258/06

Reporting Date: 09.08.2025

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID	: Lab/PN/1165E/258/06	Sampling Start Date	: 01.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04.08.2025
Sample Location	: Near Rest House		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	68.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.6	m/s	GGMPL/SOP/MP/01



Reviewed & Authorized by

Gyanvati Shukla



-----End of Report-----



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1165E/258/07

Reporting Date: 09.08.2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/1165E/258/07	Sampling Start Date	: 01.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04.08.2025
Sample Location	: Near Sand Lease Area		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMP/L/SOP/MP/01
2	Relative Humidity	68.0	%	GGMP/L/SOP/MP/01
3	Rainfall	0.0	mm	GGMP/L/SOP/MP/01
4	Average Wind Speed	3.6	m/s	GGMP/L/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/258/09

Reporting Date: 09.08.2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/1165E/258/09	Sampling Start Date	: 01.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 02.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 04.08.2025
Sample Location	: Near Filtration Plant (WTP)		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	26.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	68.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.6	m/s	GGMPL/SOP/MP/01

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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/259/10

Reporting Date : 09/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1165E/259/10	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Ground Water	Analysis Start Date:	04/08/2025
Sample Description:	Rest House Borewell	Analysis End Date:	08/08/2025
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	265.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	56.11	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	15.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.56	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.44	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	12.64	mg/L	APHA 24th Edn 4500 SO ₄ 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 ₃	220.00	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/259/10

Reporting Date : 09/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

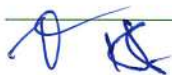
Lab ID: Lab/PN/1165E/259/10
Sample Drawn By: Shailesh kumar
Sample Type: Ground Water
Sample Description: Rest House Borewell
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 02/08/2025
Sample Receipt Date: 04/08/2025
Analysis Start Date: 04/08/2025
Analysis End Date: 08/08/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.23	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	3.50	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 ---



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/259/11

M/s Moil Limited

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

Reporting Date : 09/08/2025

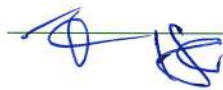


SAMPLE DETAILS

Lab ID:	Lab/PN/1165E/259/11	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Surface Water	Analysis Start Date:	04/08/2025
Sample Description:	Up Stream Rajna River	Analysis End Date:	08/08/2025
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	130.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	36.07	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	7.99	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	12.15	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.49	-	IS 3025- Part 11	-
9	Sulphate	12.04	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	190.00	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	140.00	mg/L	APHA 24th Edn 2340 C	-

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



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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/259/11

M/s Moil Limited

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

Reporting Date : 09/08/2025



SAMPLE DETAILS

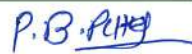
Lab ID:	Lab/PN/1165E/259/11	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Surface Water	Analysis Start Date:	04/08/2025
Sample Description:	Up Stream Rajna River	Analysis End Date:	08/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample 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	2.65	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	540	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	49	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/1165E/259/12

M/s Moil Limited

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

Reporting Date : 09/08/2025



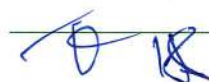
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1165E/259/12	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Surface Water	Analysis Start Date:	04/08/2025
Sample Description:	Down Stream Rajna River	Analysis End Date:	08/08/2025
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	125.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	14.43	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	13.49	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.55	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	13.61	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	5.62	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	170.00	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	136.00	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: GGMPL/PN/1165E/259/12

Reporting Date : 09/08/2025

M/s Moil Limited

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



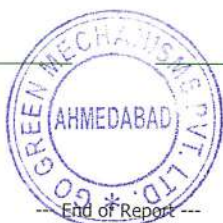
SAMPLE DETAILS

Lab ID:	Lab/PN/1165E/259/12	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Surface Water	Analysis Start Date:	04/08/2025
Sample Description:	Down Stream Rajna River	Analysis End Date:	08/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	0.32	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	2.15	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	BQL (QL=1.8)	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	BQL (QL=1.8)	MPN/100ml	APHA 9221G 24th Edition	-

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

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Report Number: GGMPL/PN/1165E/259/13

Reporting Date : 09/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1165E/259/13	Sampling Date:	02/08/2025
Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	04/08/2025
Sample Description:	WTP Outlet Water	Analysis End Date:	08/08/2025
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	85.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	39.28	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	15.49	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	15.55	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.50	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	20.56	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	190.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	162.00	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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SAMPLE DETAILS

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Sample Drawn By:	Shailesh kumar	Sample Receipt Date:	04/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	04/08/2025
Sample Description:	WTP Outlet Water	Analysis End Date:	08/08/2025
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	1.04	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	3.22	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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