

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3642D/38A/01

Reporting Date: 06/02/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3642D/38A/01	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Near Pit Office	Analysis start- End Date:	29/01/2025-05/02/2025
Env. Cond.-Sampling:	Tem-30°C/ Humidity-49%	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 (PM10)	70.68	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m ³	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO ₂)	16.31	µg/m ³	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.79	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	16.20	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	13.77	µg/m ³	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m ³	Method IO 3.4	1

Norms As Per NAAQ Standards.

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

Reviewed & Authorized by
Tantan Kumar



--- End of Report ---

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3642D/38A/02

Reporting Date: 06/02/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/3642D/38A/02	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Near Work Shop	Analysis start- End Date:	29/01/2025-05/02/2025
Env. Cond.-Sampling:	Tem-31°C/ Humidity-48%	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 (PM10)	74.31	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	19.18	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	27.65	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.04	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.02	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per NAAQ Standards.

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Tantan Kumar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3642D/38A/03

Reporting Date: 06/02/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/3642D/38A/03	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Near Crushing Plant	Analysis start- End Date:	29/01/2025-05/02/2025
Env. Cond.-Sampling:	Tem-29°C/ Humidity-47%	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 (PM10)	68.66	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.27	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	22.40	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.73	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.15	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms As Per NAAQ Standards

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3642D/38A/04

Reporting Date: 06/02/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Maulik Prajapati

Sampling Date: 25/01/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3642D/3 8A/04A	Near Cabal Bolting Operation	Day Time	dB(A)Leq	IS 4758	65.7	-
2	Lab/PN/3642D/3 8A/04B	Near Jack Hammer Drill Machine	Day Time	dB(A)Leq	IS 4758	69.4	-
3	Lab/PN/3642D/3 8A/04C	Near vertical Fan	Day Time	dB(A)Leq	IS 4758	70.9	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3642D/38A/08

M/s Moil Limited

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

Reporting Date : 06/02/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3642D/38A/08	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Ground Water	Analysis Start Date:	29/01/2025
Sample Description:	Near Officer Colony Borewell Water	Analysis End Date:	05/02/2025
Sample Quantity:	3.5 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	138.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	32.87	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	31.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.11	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.63	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.52	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	11.63	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	234.00	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	171.00	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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Reporting Date : 06/02/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3642D/38A/08	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Ground Water	Analysis Start Date:	29/01/2025
Sample Description:	Near Officer Colony Borewell Water	Analysis End Date:	05/02/2025
Sample Quantity:	3.5 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	2.11	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

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

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Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3642D/38A/09

M/s Moil Limited

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

Reporting Date : 06/02/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3642D/38A/09	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Waste Water	Analysis Start Date:	29/01/2025
Sample Description:	Near Pit Water V/G Source (WW)	Analysis End Date:	05/02/2025
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.68	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	23.00	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)	72.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	18	mg/L	IS 3025- Part 44	-
7	Manganese	3.08	mg/L	GGMPL/SOP/W&WW/46	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3642D/38A/10

Reporting Date : 06/02/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/3642D/38A/10	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Waste Water	Analysis Start Date:	29/01/2025
Sample Description:	ETP Outlet (WW)	Analysis End Date:	05/02/2025
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.66	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	42.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	36.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	9.1	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	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

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3643D/38B/01

Reporting Date: 05/02/2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L2 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/3643D/38B/01	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Near Check Post (Main Gate)	Analysis start- End Date:	29/01/2025-04/02/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-49%	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 (PM10)	74.21	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	19.50	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	29.62	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	21.40	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.53	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms As Per NAAQ Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3643D/38B/02

Reporting Date: 05/02/2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L2 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/3643D/38B/02	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Gumgaon Village Grampanchayat	Analysis start- End Date:	29/01/2025-04/02/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-49%	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 (PM10)	67.83	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.41	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.09	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.51	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms As Per NAAQ Standards.

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

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Tantan Kumar



--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3643D/38B/05

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L2 P.O Khapa Tah. Saoner Dist. Nagpur

Reporting Date : 05/02/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3643D/38B/05	Sampling Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Ground Water	Analysis Start Date:	29/01/2025
Sample Description:	Near Old Office Borewell Water	Analysis End Date:	04/02/2025
Sample Quantity:	3.5 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	126.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	39.28	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	38.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.39	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.23	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.56	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.59	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	258.00	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	173.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500.

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



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Tantan kumar & Dr. Haragobinda Srichandan




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3643D/38B/05

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L2 P.O Khapa Tah. Saoner Dist. Nagpur

Reporting Date : 05/02/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3643D/38B/05	Sampling Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Ground Water	Analysis Start Date:	29/01/2025
Sample Description:	Near Old Office Borewell Water	Analysis End Date:	04/02/2025
Sample Quantity:	3.5 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	1.28	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500.

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



Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3644D/38C/01

Reporting Date: 06/02/2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/3644D/38C/01	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Near Grampanchayat Tigal Village	Analysis start- End Date:	30/01/2025-05/02/2025
Env. Cond.-Sampling:	Temp -29°C & Humidity-49%	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 (PM10)	61.61	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.33	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.91	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.91	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.53	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.39	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3644D/38C/02

Reporting Date: 06/02/2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID:	Lab/PN/3644D/38C/02	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Near High Speed Vertical Shaft	Analysis start- End Date:	30/01/2025-05/02/2025
Env. Cond.-Sampling:	Temp -30°C & Humidity-44%	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 (PM10)	66.88	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74325	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.77	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.69	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.73	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.15	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3644D/38C/03

Reporting Date: 06/02/2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3644D/38C/03	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Near Bus Stand Khapa Village	Analysis start- End Date:	30/01/2025-05/02/2025
Env. Cond.-Sampling:	Temp -30°C & Humidity-49%	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 (PM10)	63.78	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.83	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	12.41	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.05	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.67	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.39	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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/3644D/38C/04

Reporting Date: 06/02/2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By : Maulik Prajapati

Sampling Date:

25/01/2025

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3644D/3 8C/04A	Near Grampanchayat Tigai Village	Day Time	dB(A)Leq	IS 4758	56.9	-
2	Lab/PN/3644D/3 8C/04B	Nr High Speed Vertical Shaft	Day Time	dB(A)Leq	IS 4758	70.9	-
3	Lab/PN/3644D/3 8C/04C	Nr Bus Stand Khapa Village	Day Time	dB(A)Leq	IS 4758	69.6	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3644D/38C/08

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur

Reporting Date : 06/02/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3644D/38C/08	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Ground Water	Analysis Start Date:	30/01/2025
Sample Description:	Khapa Village Handpump	Analysis End Date:	05/02/2025
Sample Quantity:	4 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	145.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	51.30	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	43.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.22	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.93	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.43	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	23.56	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	316.00	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	210.00	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



Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3644D/38C/08

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur

Reporting Date : 06/02/2025



SAMPLE DETAILS

Lab ID: Lab/PN/3644D/38C/08
Sample Drawn By: Maulik Prajapati
Sample Type: Ground Water
Sample Description: Khapa Village Handpump
Sample Quantity: 4 L
Sample Condition: Satisfactory

Sampling Date: 26/01/2025
Sample Receipt Date: 28/01/2025
Analysis Start Date: 30/01/2025
Analysis End Date: 05/02/2025
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APIA 24U Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.87	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



Reviewed & Authorized by
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3644D/38C/09

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur

Reporting Date : 06/02/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3644D/38C/09	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Waste Water	Analysis Start Date:	30/01/2025
Sample Description:	STP Outlet (WW)	Analysis End Date:	05/02/2025
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.58	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids (TSS)	24.00	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)	52.00	mg/L	APHA 24th Edn 5220 B	250
5	Dissolved Oxygen	4.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	15	mg/L	IS 3025- Part 44	30
7	Manganese	0.39	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3644D/38C/10

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur

Reporting Date : 06/02/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3644D/38C/10	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Waste Water	Analysis Start Date:	30/01/2025
Sample Description:	Mine Dishcharge Water	Analysis End Date:	05/02/2025
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.68	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids (TSS)	20.00	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	5.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	18	mg/L	IS 3025- Part 44	30
7	Manganese	1.14	mg/L	GGMPL/SOP/W&WW/46	-

Norms as per CTO

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/3644D/38C/07

Reporting Date: 05.02.2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L3 P.O Khapa Tah. Saoner Dist. Nagpur



SAMPLE DETAILS

Lab ID	: Lab/PN/3644D/38C/07	Sampling Start Date	: 25.01.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.01.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.01.2025
Sample Location	: Near Bus Stand Khapa Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.66	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	49.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

Wind Direction= N

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3645D/38/01

Reporting Date: 05/02/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3645D/38/01	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Near Rest House	Analysis start- End Date:	30/01/2025-04/02/2025
Env. Cond.-Sampling:	T-30C & H-53%	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 (PM10)	71.19	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m ³	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO ₂)	12.38	µg/m ³	IS 5182-Part 2	80
4	Oxides of Nitrogen	19.43	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	BQL (QL=10)	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	11.02	µg/m ³	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m ³	Method IO 3.4	1

Norms as per NAAQ Standard.

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

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Tantan Kumar



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Manish Kumawat

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3645D/38/02

Reporting Date: 05/02/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/3645D/38/02	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Near Sand Lease Area	Analysis start- End Date:	30/01/2025-04/02/2025
Env. Cond.-Sampling:	T-30°C & H-54%	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 (PM10)	69.56	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	14.27	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	22.63	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.70	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.26	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms as per NAAQ Standard.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3645D/38/03

Reporting Date: 05/02/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3645D/38/03	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Near Haul Road	Analysis start- End Date:	30/01/2025-04/02/2025
Env. Cond.-Sampling:	T-31°C & H-51%	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 (PM10)	73.49	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.91	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.21	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.05	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.01	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms as per NAAQ Standard.

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3645D/38/04

Reporting Date: 05/02/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/3645D/38/04	Sampling Start Date:	25/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	26/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	28/01/2025
Sample Description:	Near Filtration Plant (WTP)	Analysis start- End Date:	30/01/2025-04/02/2025
Env. Cond.-Sampling:	T-°30C & H-51%	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 (PM10)	65.23	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	11.39	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	16.73	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.01	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.40	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms as per NAAQ Standard.

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

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Report Number: GGMP/L/PN/3645D/38/05

Reporting Date: 05/02/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By : Maulik Prajapati

Sampling Date:

25/01/2025

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3645D/38/05A	Near Rest House	Day Time	dB(A)Leq	IS 4758	53.2	-
2	Lab/PN/3645D/38/05B	Near Sand Lease	Day Time	dB(A)Leq	IS 4758	59.6	-
3	Lab/PN/3645D/38/05C	Near Haul Road	Day Time	dB(A)Leq	IS 4758	62.2	-
4	Lab/PN/3645D/38/05D	Near Filtration Plant (WTP)	Day Time	dB(A)Leq	IS 4758	66.3	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3645D/38/10

Reporting Date : 06/02/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/3645D/38/10	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Ground Water	Analysis Start Date:	30/01/2025
Sample Description:	Near Rest House Borewell	Analysis End Date:	05/02/2025
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Parking:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AI	PI
1	Alkalinity as CaCO ₃	110.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	60.92	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	60.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.50	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.66	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	28.00	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	298.00	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	200.00	mg/L	APHA 24th Edn 2340 C	200	600

AI & PI as per IS 10500.

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

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

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Report Number: GGMPL/PN/3645D/38/10

M/s Moil Limited

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

Reporting Date : 06/02/2025



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/3645D/38/10
Sample Drawn By: Maulik Prajapati
Sample Type: Ground Water
Sample Description: Near Rest House Borewell
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 26/01/2025
Sample Receipt Date: 28/01/2025
Analysis Start Date: 30/01/2025
Analysis End Date: 05/02/2025
Sampling Method: GGMPL/WI/27A
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	2.30	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3645D/38/11

M/s Moil Limited

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

Reporting Date : 06/02/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3645D/38/11	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Surface Water	Analysis Start Date:	30/01/2025
Sample Description:	Upstream Rajna River (SW)	Analysis End Date:	05/02/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	147.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	42.08	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	44.49	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	19.68	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.26	-	IS 3025- Part 11	-
9	Sulphate	20.41	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	280.00	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	186.00	mg/L	APHA 24th Edn 2340 C	-

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



Hg

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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3645D/38/11

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Sonner Dist. Nagpur

Reporting Date : 06/02/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3645D/38/11	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Surface Water	Analysis Start Date:	30/01/2025
Sample Description:	Upstream Rajna River (SW)	Analysis End Date:	05/02/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	1.48	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	17	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	7	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/3645D/38/12

M/s Moil Limited

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

Reporting Date : 06/02/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/3645D/38/12	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Surface Water	Analysis Start Date:	30/01/2025
Sample Description:	Downstream Rajna River (SW)	Analysis End Date:	05/02/2025
Sample Quantity:	3.5 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	32.87	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	25.49	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.19	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	15.31	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.36	-	IS 3025- Part 11	-
9	Sulphate	20.21	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	224.00	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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Report Number: GGMPL/PN/3645D/38/12

M/s Moil Limited

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

Reporting Date : 06/02/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3645D/38/12	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Surface Water	Analysis Start Date:	30/01/2025
Sample Description:	Downstream Rajna River (SW)	Analysis End Date:	05/02/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	1.44	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	39	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	14	MPN/100ml	APHA 9221G 24th Edition	-

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

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Report Number: GGMPL/PN/3645D/38/13

M/s Moil Limited

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

Reporting Date : 06/02/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/3645D/38/13	Sampling Date:	26/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	28/01/2025
Sample Type:	Drinking Water	Analysis Start Date:	30/01/2025
Sample Description:	WTP outlet (DW)	Analysis End Date:	05/02/2025
Sample Quantity:	3.5 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	145.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	33.67	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	18.99	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	25.27	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.54	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	10.06	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	212.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	188.00	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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Report Number: GGMPL/PN/3645D/38/13

Reporting Date : 06/02/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/3645D/38/13
Sample Drawn By: Maulik Prajapati
Sample Type: Drinking Water
Sample Description: WTP outlet (DW)
Sample Quantity: 3.5 L
Sample Condition: Satisfactory

Sampling Date: 26/01/2025
Sample Receipt Date: 28/01/2025
Analysis Start Date: 30/01/2025
Analysis End Date: 05/02/2025
Sampling Method: GGMPL/WI/27A
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	0.23	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.48	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

AI & PI 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/3645D/38/08

Reporting Date: 05.02.2025

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID	: Lab/PN/3645D/38/08	Sampling Start Date	: 25.01.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.01.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.01.2025
Sample Location	: Near Haul Road		



Sr. NO.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	54.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

Wind Direction= S

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3645D/38/09

Reporting Date: 05.02.2025

M/s Moil Limited

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



TC-3073

SAMPLE DETAILS

Lab ID	: Lab/PN/3645D/38/09	Sampling Start Date	: 25.01.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 26.01.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 28.01.2025
Sample Location	: Near Filtration Plant (WTP)		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	54.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

Wind Direction= S

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