

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2220E/270/01

Reporting Date: 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.

Nagpur (M.S) 441401



SAMPLE DETAILS

Lab ID:	Lab/PN/2220E/270/01	Sampling Start Date:	08/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	09/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/11/2025
Sample Description:	Near Mine Pit	Analysis start- End Date:	12/11/2025-17/11/2025
Env. Cond.-Sampling:	Temp-28°C/ Humidity-52%	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)	18.08	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	31.19	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.63	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.20	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	73.79	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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

Reviewed & Authorized by
Tantan Kumar



--- End of Report ---

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2220E/270/02

Reporting Date: 18/11/2025

M/s Moil Limited
Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



SAMPLE DETAILS

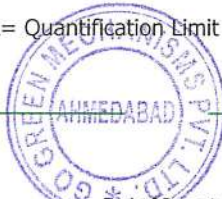
Lab ID:	Lab/PN/2220E/270/02	Sampling Start Date:	08/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	09/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/11/2025
Sample Description:	Near Hospital	Analysis start- End Date:	12/11/2025-17/11/2025
Env. Cond.-Sampling:	Temp-28°C/ Humidity-52%	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)	15.87	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.61	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.35	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	9.80	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)	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)	66.23	µg/m3	IS 5182- Part 23	

Norms as per National Ambient Air Quality Standards.

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2220E/270/03

Reporting Date: 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



SAMPLE DETAILS

Lab ID:	Lab/PN/2220E/270/03	Sampling Start Date:	08/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	09/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/11/2025
Sample Description:	Near Haul Road	Analysis start- End Date:	12/11/2025-18/11/2025
Env. Cond.-Sampling:	Temp-28°C/ Humidity-52%	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)	14.46	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	24.61	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.99	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.60	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)	1.02	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.

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2220E/270/04

Reporting Date: 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



SAMPLE DETAILS

Lab ID:	Lab/PN/2220E/270/04	Sampling Start Date:	08/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	09/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/11/2025
Sample Description:	Near Staff Colony	Analysis start- End Date:	12/11/2025-17/11/2025
Env. Cond.-Sampling:	Temp-28°C/ Humidity-52%	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)	34.99	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.05	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	21.87	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	19.19	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)	1.05	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)	68.56	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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


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Page No : 1/1

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M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Shailesh Pandey

Sampling Date: 08/11/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2220E/2 70/05A	Nr Mine Pit	Day Time	dB(A)Leq	IS 4758	66	-
2	Lab/PN/2220E/2 70/05B	Nr Hospital	Day Time	dB(A)Leq	IS 4758	56	-
3	Lab/PN/2220E/2 70/05C	Nr Haul Road	Day Time	dB(A)Leq	IS 4758	60	-
4	Lab/PN/2220E/2 70/05D	Nr Staff Colony	Day Time	dB(A)Leq	IS 4758	55	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2220E/270/06

Reporting Date : 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2220E/270/06	Sampling Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	12/11/2025
Sample Type:	Ground Water	Analysis Start Date:	12/11/2025
Sample Description:	GW Of Staff Colony Borewell Water	Analysis End Date:	18/11/2025
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	163.00	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	59.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.78	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.98	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	27.74	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	336.00	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	230.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500

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



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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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Reporting Date : 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2220E/270/06	Sampling Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	12/11/2025
Sample Type:	Ground Water	Analysis Start Date:	12/11/2025
Sample Description:	GW Of Staff Colony Borewell Water	Analysis End Date:	18/11/2025
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	3.45	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500

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

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Tantan kumar & Dr. Haragobinda Srichandan



P. B. Patel

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2220E/270/07

Reporting Date : 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



SAMPLE DETAILS

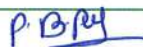
Lab ID:	Lab/PN/2220E/270/07	Sampling Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	12/11/2025
Sample Type:	Waste Water	Analysis Start Date:	12/11/2025
Sample Description:	WW of ETP Inlet	Analysis End Date:	17/11/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.45	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	68.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	2.40	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	192.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	58	mg/L	IS 3025- Part 44	-
7	Manganese	1.36	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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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2220E/270/08

Reporting Date : 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401




SAMPLE DETAILS

Lab ID:	Lab/PN/2220E/270/08	Sampling Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	12/11/2025
Sample Type:	Waste Water	Analysis Start Date:	12/11/2025
Sample Description:	WW of ETP Outlet	Analysis End Date:	17/11/2025
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	7.58	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids (TSS)	34.00	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)	48.00	mg/L	APHA 24th Edn 5220 B	250
5	Dissolved Oxygen	5.40	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	12	mg/L	IS 3025- Part 44	30
7	Manganese	0.82	mg/L	GGMPL/SOP/W&WW/46	NS

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/2220E/270/09

Reporting Date : 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2220E/270/09	Sampling Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	12/11/2025
Sample Type:	Waste Water	Analysis Start Date:	12/11/2025
Sample Description:	WW of Mine Discharge Water	Analysis End Date:	17/11/2025
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	7.74	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	46.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	52.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	14	mg/L	IS 3025- Part 44	-
7	Manganese	0.58	mg/L	GGMPL/SOP/W&WW/46	-

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMP/ PN/2220E/270/10

Reporting Date : 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



SAMPLE DETAILS

Lab ID:	Lab/PN/2220E/270/10	Sampling Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	12/11/2025
Sample Type:	Waste Water	Analysis Start Date:	12/11/2025
Sample Description:	WW of STP Inlet	Analysis End Date:	17/11/2025
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	7.34	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	71.00	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)	244.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	80	mg/L	IS 3025- Part 44	-
7	Manganese	0.51	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/2220E/270/11

Reporting Date : 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2220E/270/11	Sampling Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	12/11/2025
Sample Type:	Waste Water	Analysis Start Date:	12/11/2025
Sample Description:	WW of STP Outlet	Analysis End Date:	17/11/2025
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	7.73	-	IS 3025- Part 11	NS
2	Total Suspended Solids (TSS)	36.00	mg/L	APHA 24th Edn 2540 D	50
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand (COD)	48.00	mg/L	APHA 24th Edn 5220 B	100
5	Dissolved Oxygen	5.20	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	14	mg/L	IS 3025- Part 44	30
7	Manganese	0.28	mg/L	GGMPL/SOP/W&WW/46	2.0

Norms as per CTO

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


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Report Number: GGMP/L/PN/2220E/270/12

Reporting Date: 18.11.2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S) 441401



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2220E/270/12	Sampling Start Date	: 08.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12.11.2025
Sample Location	: Near Mine Pit		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	52.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.6	m/s	GGMPL/SOP/MP/01


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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2220E/270/13

Reporting Date: 18.11.2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur (M.S) 441401



SAMPLE DETAILS

Lab ID	: Lab/PN/2220E/270/13	Sampling Start Date	: 08.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12.11.2025
Sample Location	: Near Hospital		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	52.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.6	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2220E/270/14

Reporting Date: 18.11.2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
Nagpur (M.S) 441401



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2220E/270/14	Sampling Start Date	: 08.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12.11.2025
Sample Location	: Near Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	52.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.6	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2220E/270/15

Reporting Date: 18.11.2025

M/s Moil Limited

Kandri Manganese Mines (M.S) L1=83.060 Ha site Tah-Ramtek Dist. Nagpur
Nagpur (M.S) 441401



SAMPLE DETAILS

Lab ID	: Lab/PN/2220E/270/15	Sampling Start Date	: 08.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12.11.2025
Sample Location	: Near Staff Colony		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	52.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	1.6	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2219E/271/01

Reporting Date: 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway Siding PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



SAMPLE DETAILS

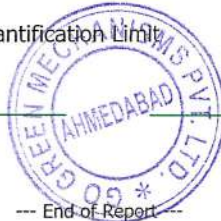
Lab ID:	Lab/PN/2219E/271/01	Sampling Start Date:	08/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	09/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/11/2025
Sample Description:	Infront of Weight Bridge	Analysis start- End Date:	12/11/2025-17/11/2025
Env. Cond.-Sampling:	Temp-28°C / Humidity-52%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	38.74	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.77	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	24.58	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.83	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.93	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	75.12	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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


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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2219E/271/03

Reporting Date : 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway Siding PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2219E/271/03	Sampling Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	12/11/2025
Sample Type:	Ground Water	Analysis Start Date:	12/11/2025
Sample Description:	Railway Siding Borewell	Analysis End Date:	17/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

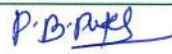
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	192.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	51.70	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	48.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.97	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.54	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	27.35	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	356.00	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	230.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

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


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Tantan Kumar




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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2219E/271/03

Reporting Date : 18/11/2025

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway Siding PO. Kandri Tah-Ramtek Dist.
Nagpur (M.S) 441401



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2219E/271/03	Sampling Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	12/11/2025
Sample Type:	Ground Water	Analysis Start Date:	12/11/2025
Sample Description:	Railway Siding Borewell	Analysis End Date:	17/11/2025
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	2.01	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2219E/271/04

Reporting Date: 18.11.2025

M/s Moil Limited

Kandri Manganese Mines (M.S) Railway siding Tah-Ramtek Dist. Nagpur (M.S) 441401



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2219E/271/04	Sampling Start Date	: 08.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12.11.2025
Sample Location	: Infront of Weight Bridge		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMP/L/SOP/MP/01
2	Relative Humidity	52.0	%	GGMP/L/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/L/SOP/MP/01
4	Wind Speed	1.6	m/s	GGMP/L/SOP/MP/01



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---End of Report---



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2229E/272/01

Reporting Date: 19/11/2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/2229E/272/01	Sampling Start Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	10/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	13/11/2025
Sample Description:	Pench River Bank	Analysis start- End Date:	13/11/2025-18/11/2025
Env. Cond.-Sampling:	Temp-27°C/ Humidity-55%	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)	34.58	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.17	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.47	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.99	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)	0.43	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)	66.87	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards

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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2229E/272/02

Reporting Date: 19/11/2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)




SAMPLE DETAILS

Lab ID:	Lab/PN/2229E/272/02	Sampling Start Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	10/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	13/11/2025
Sample Description:	500m from River Bank	Analysis start- End Date:	13/11/2025-18/11/2025
Env. Cond.-Sampling:	Temp-27°C/ Humidity-55%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.19	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.33	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.43	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.60	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)	0.46	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)	71.73	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/2229E/272/03

Reporting Date: 19/11/2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/2229E/272/03	Sampling Start Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	10/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	13/11/2025
Sample Description:	Mahuli Village	Analysis start- End Date:	13/11/2025-18/11/2025
Env. Cond.-Sampling:	Temp-27°C/ Humidity-55%	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)	34.99	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.98	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.18	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.67	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.81	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)	0.49	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)	75.85	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards

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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2229E/272/04

Reporting Date: 19/11/2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/2229E/272/04	Sampling Start Date:	09/11/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	10/11/2025
Sample Type:	Ambient Air	Sample Receipt Date:	13/11/2025
Sample Description:	Kalaphata Village	Analysis start- End Date:	13/11/2025-18/11/2025
Env. Cond.-Sampling:	Temp-27°C/ Humidity-55%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.62	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.19	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	16.31	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)	0.51	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	73.17	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/2229E/272/05

Reporting Date: 19/11/2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Shailesh Pandey

Sampling Date: 09/11/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2229E/2 72/05A	Pench River Bank	Day Time	dB(A)Leq	IS 4758	54	-
2	Lab/PN/2229E/2 72/05B	500 m From River Bank	Day Time	dB(A)Leq	IS 4758	55	-
3	Lab/PN/2229E/2 72/05C	Mahuli Village	Day Time	dB(A)Leq	IS 4758	56	-
4	Lab/PN/2229E/2 72/05D	Kalaphata Village	Day Time	dB(A)Leq	IS 4758	55	-

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


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Gyanvati Shukla




Reviewed & Authorized by
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2229E/272/06

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 19/11/2025



TC-7073

SAMPLE DETAILS

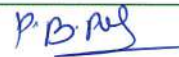
Lab ID:	Lab/PN/2229E/272/06	Sampling Date:	10/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	13/11/2025
Sample Type:	Surface Water	Analysis Start Date:	13/11/2025
Sample Description:	Pench River Bank	Analysis End Date:	18/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	139.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	51.70	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	48.98	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.69	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	16.77	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.35	-	IS 3025- Part 11	-
9	Sulphate	24.25	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	320.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	14.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	198.00	mg/L	APHA 24th Edn 2340 C	-

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



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Tantan kumar & Dr. Haragobinda Srichandan

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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2229E/272/06

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 19/11/2025




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2229E/272/06	Sampling Date:	10/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	13/11/2025
Sample Type:	Surface Water	Analysis Start Date:	13/11/2025
Sample Description:	Pench River Bank	Analysis End Date:	18/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Total coliform	49	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	23	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	1.36	mg/L	APHA 24th Edn 4500 NO3 B	-

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2229E/272/07

Reporting Date : 19/11/2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



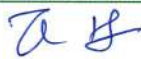
TC-7073

SAMPLE DETAILS

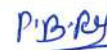
Lab ID:	Lab/PN/2229E/272/07	Sampling Date:	10/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	13/11/2025
Sample Type:	Surface Water	Analysis Start Date:	13/11/2025
Sample Description:	Up Stream Pench River	Analysis End Date:	18/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	159.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	43.69	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	51.98	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.64	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	28.19	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.20	-	IS 3025- Part 11	-
9	Sulphate	22.31	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	328.00	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	225.00	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/2229E/272/07

Reporting Date : 19/11/2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2229E/272/07	Sampling Date:	10/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	13/11/2025
Sample Type:	Surface Water	Analysis Start Date:	13/11/2025
Sample Description:	Up Stream Pench River	Analysis End Date:	18/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Total coliform	39	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	17	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	1.59	mg/L	APHA 24th Edn 4500 NO3 B	-

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

T. H.

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P.B. Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2229E/272/08

Reporting Date : 19/11/2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2229E/272/08	Sampling Date:	10/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	13/11/2025
Sample Type:	Surface Water	Analysis Start Date:	13/11/2025
Sample Description:	Down Stream Pench River	Analysis End Date:	18/11/2025
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	199.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	62.52	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	72.98	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.50	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	32.32	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.39	-	IS 3025- Part 11	-
9	Sulphate	38.02	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	440.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	14.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	289.00	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/2229E/272/08

Reporting Date : 19/11/2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2229E/272/08	Sampling Date:	10/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	13/11/2025
Sample Type:	Surface Water	Analysis Start Date:	13/11/2025
Sample Description:	Down Stream Pench River	Analysis End Date:	18/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	0.12	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Total coliform	79	MPN/100ml	APHA 9221B 24th Edition 2021	-
17	E. coli	33	MPN/100ml	APHA 9221G 24th Edition	-
18	Nitrate	2.41	mg/L	APHA 24th Edn 4500 NO3 B	-

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2229E/272/09

Reporting Date : 19/11/2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2229E/272/09	Sampling Date:	10/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	13/11/2025
Sample Type:	Ground Water	Analysis Start Date:	13/11/2025
Sample Description:	GW of Kalaphata Village Handpump	Analysis End Date:	18/11/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

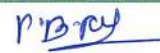
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	162.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	60.52	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	69.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.58	mg/L	APHA 24th Edn 4500 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	7.48	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	27.94	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	344.00	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	219.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500.

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



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CERTIFICATE OF ANALYSIS

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Reporting Date : 19/11/2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2229E/272/09	Sampling Date:	10/11/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	13/11/2025
Sample Type:	Ground Water	Analysis Start Date:	13/11/2025
Sample Description:	GW of Kalaphata Village Handpump	Analysis End Date:	18/11/2025
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	2.86	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

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



Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan




Reviewed & Authorized by
Payal Patel

--- End of Report ---

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/2229E/272/10

Reporting Date: 19.11.2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



IC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2229E/272/10	Sampling Start Date	: 09.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 10.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 13.11.2025
Sample Location	: Pench River Bank		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMP/SOP/MP/01
2	Relative Humidity	55.0	%	GGMP/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMP/SOP/MP/01

Reviewed & Authorized by

Gyanvati Shukla



End of Report

Reviewed & Authorized by

Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/PN/2229E/272/11

Reporting Date: 19.11.2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2229E/272/11	Sampling Start Date	: 09.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 10.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 13.11.2025
Sample Location	: 500m from River Bank		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMP/SOP/MP/01
2	Relative Humidity	55.0	%	GGMP/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMP/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMP/SOP/MP/01

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Gyanvati Shukla



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/2229E/272/12

Reporting Date: 19.11.2025

M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2229E/272/12	Sampling Start Date	: 09.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 10.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 13.11.2025
Sample Location	: Mahuli Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	55.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01

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M/s Moil Limited

Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/2229E/272/13	Sampling Start Date	: 09.11.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 10.11.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 13.11.2025
Sample Location	: Kalaphata Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	55.0	%	GGMPL/SOP/MP/01
3	Rainfall	BQL (QL=0.254)	mm	GGMPL/SOP/MP/01
4	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01

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