

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1242E/270/01

Reporting Date: 19/08/2025

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/1242E/270/01	Sampling Start Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	09/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/08/2025
Sample Description:	Near Mine Pit	Analysis start- End Date:	12/08/2025-18/08/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-73%	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)	17.35	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	32.99	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.09	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)	1.09	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	72.02	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



Reviewed & Authorized by
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1242E/270/02

Reporting Date: 19/08/2025

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/1242E/270/02	Sampling Start Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	09/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/08/2025
Sample Description:	Near Hospital	Analysis start- End Date:	12/08/2025-18/08/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-73%	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)	30.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	12.04	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	25.81	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	9.89	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)	63.17	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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Tantan Kumar



--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1242E/270/03

Reporting Date: 19/08/2025

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/1242E/270/03	Sampling Start Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	09/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/08/2025
Sample Description:	Near Haul Road	Analysis start- End Date:	12/08/2025-18/08/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-73%	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)	15.23	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.13	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.13	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.30	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)	1.09	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	68.29	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/1242E/270/04

Reporting Date: 19/08/2025

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/1242E/270/04	Sampling Start Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	09/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/08/2025
Sample Description:	Near Staff Colony	Analysis start- End Date:	12/08/2025-18/08/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-73%	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)	32.08	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	11.28	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.39	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.24	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	9.89	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.01	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	65.18	µg/m3	IS 5182- Part 23	100

Norms as per National Ambient Air Quality Standards.

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Head Office & Lab

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Email Id : lab@greenmechanisms.com

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Reporting Date: 19/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Maulik Prajapati

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

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1242E/2 70/05A	Nr Mine Pit	Day Time	dB(A)Leq	IS 4758	65.3	-
2	Lab/PN/1242E/2 70/05B	Nr Hospital	Day Time	dB(A)Leq	IS 4758	56.2	-
3	Lab/PN/1242E/2 70/05C	Nr Haul Road	Day Time	dB(A)Leq	IS 4758	59.4	-
4	Lab/PN/1242E/2 70/05D	Nr Staff Colony	Day Time	dB(A)Leq	IS 4758	54.2	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1242E/270/06

M/s Moil Limited

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

Reporting Date : 19/08/2025



TC-7073

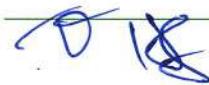
SAMPLE DETAILS

Lab ID:	Lab/PN/1242E/270/06	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Ground Water	Analysis Start Date:	12/08/2025
Sample Description:	GW Of Staff Colony Borewell Water	Analysis End Date:	18/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

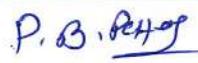
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	146.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	54.91	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	54.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.72	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.20	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.02	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	23.57	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	216.00	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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Nagpur (M.S) 441401

Reporting Date : 19/08/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1242E/270/06	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Ground Water	Analysis Start Date:	12/08/2025
Sample Description:	GW Of Staff Colony Borewell Water	Analysis End Date:	18/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

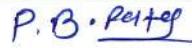
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.98	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

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



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Tantan Kumar & Dr. Haragobinda Srichandan

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1242E/270/07

Reporting Date : 19/08/2025

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/1242E/270/07	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Waste Water	Analysis Start Date:	12/08/2025
Sample Description:	WW of ETP Inlet	Analysis End Date:	18/08/2025
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	7.16	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	51.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	2.1	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	216.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.2	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	66.7	mg/L	IS 3025- Part 44	-
7	Manganese	1.74	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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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1242E/270/08

M/s Moil Limited

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

Reporting Date : 19/08/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1242E/270/08	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Waste Water	Analysis Start Date:	12/08/2025
Sample Description:	WW of ETP Outlet	Analysis End Date:	18/08/2025
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	7.48	-	IS 3025- Part 11	5.5 To 9.0
2	Total Suspended Solids (TSS)	28.00	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	5.6	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	15	mg/L	IS 3025- Part 44	30
7	Manganese	0.78	mg/L	GGMPL/SOP/W&WW/46	NS

Norms AS Per CTO.

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

Reviewed & Authorized by
Tantan Kumar



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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1242E/270/09

M/s Moil Limited

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

Reporting Date : 19/08/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1242E/270/09	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Waste Water	Analysis Start Date:	12/08/2025
Sample Description:	WW of Mine Discharge Water	Analysis End Date:	18/08/2025
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	7.62	-	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)	44.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.4	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	12	mg/L	IS 3025- Part 44	-
7	Manganese	0.52	mg/L	GGMPL/SOP/W&WW/46	-

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

Reviewed & Authorized by
Tantan Kumar



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1242E/270/10

Reporting Date : 19/08/2025

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/1242E/270/10	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Waste Water	Analysis Start Date:	12/08/2025
Sample Description:	WW of STP Inlet	Analysis End Date:	18/08/2025
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	7.15	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	83.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	2.30	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	256.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.4	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	83	mg/L	IS 3025- Part 44	-
7	Manganese	0.44	mg/L	GGMPL/SOP/W&WW/46	-

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

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End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1242E/270/11

M/s Moil Limited

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

Reporting Date : 19/08/2025



TC-7073

SAMPLE DETAILS

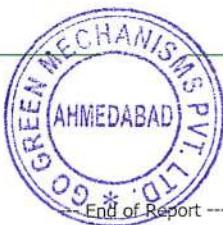
Lab ID:	Lab/PN/1242E/270/11	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Waste Water	Analysis Start Date:	12/08/2025
Sample Description:	WW of STP Outlet	Analysis End Date:	18/08/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.68	-	IS 3025- Part 11	NS
2	Total Suspended Solids (TSS)	32.00	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)	40.00	mg/L	APHA 24th Edn 5220 B	100
5	Dissolved Oxygen	5.5	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	10	mg/L	IS 3025- Part 44	30
7	Manganese	0.22	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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Tantan Kumar



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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1242E/270/12

Reporting Date: 19-08-2025

M/s Moil Limited

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



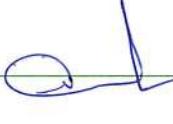
TC-7073

SAMPLE DETAILS

Lab ID	: Lab/PN/1242E/270/12	Sampling Start Date	: 08-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12-08-2025
Sample Location	: Near Mine Pit		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.66	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	73.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

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Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1242E/270/13

Reporting Date: 19-08-2025

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/1242E/270/13	Sampling Start Date	: 08-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12-08-2025
Sample Location	: Near Hospital		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.66	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	73.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01



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Tantan kumar

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Manish Kumawat

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Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1242E/270/14

Reporting Date: 19-08-2025

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/1242E/270/14	Sampling Start Date	: 08-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12-08-2025
Sample Location	: Near Haul Road		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.66	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	73.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01



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Tantan Kumar





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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1242E/270/15

Reporting Date: 19-08-2025

M/s Moil Limited

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

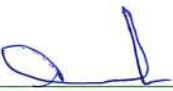


SAMPLE DETAILS

Lab ID	: Lab/PN/1242E/270/15	Sampling Start Date	: 08-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12-08-2025
Sample Location	: Near Staff Colony		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.66	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	73.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01

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 Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1244E/271/01

Reporting Date: 19/08/2025

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/1244E/271/01	Sampling Start Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	09/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/08/2025
Sample Description:	Infront of Weight Bridge	Analysis start- End Date:	12/08/2025-18/08/2025
Env. Cond.-Sampling:	Temp-30°C/ Humidity-73%	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)	35.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.08	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.42	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.45	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.30	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)	1.09	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	70.71	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

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1244E/271/02

Reporting Date: 19/08/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Maulik Prajapati

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

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1244E/2 71/02	In Front Of Weight bridge	Day Time	dB(A)Leq	IS 4758	63.5	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1244E/271/03

M/s Moil Limited

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

Reporting Date : 19/08/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1244E/271/03	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Ground Water	Analysis Start Date:	12/08/2025
Sample Description:	GW of Railway Siding Borewell	Analysis End Date:	18/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

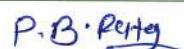
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	186.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	46.49	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	43.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	1.16	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	29.40	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.63	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	31.29	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	345.00	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	237.00	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

Report Number: GGMPL/PN/1244E/271/03

M/s Moil Limited

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

Reporting Date : 19/08/2025



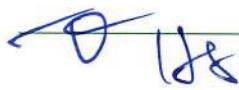
SAMPLE DETAILS

Lab ID:	Lab/PN/1244E/271/03	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Ground Water	Analysis Start Date:	12/08/2025
Sample Description:	GW of Railway Siding Borewell	Analysis End Date:	18/08/2025
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	2.03	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.

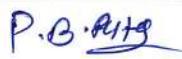
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1244E/271/04

Reporting Date: 19-08-2025

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/1244E/271/04	Sampling Start Date	: 08-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12-08-2025
Sample Location	: In Front of Weight Bridge		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.66	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	73.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	30.0	°C	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1245E/272/01

M/s Moil Limited

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

Reporting Date: 19/08/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1245E/272/01	Sampling Start Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	09/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/08/2025
Sample Description:	Pench River Bank	Analysis start- End Date:	12/08/2025-18/08/2025
Env. Cond.-Sampling:	Temp-29°C/ Humidity-78%	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)	35.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	17.71	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.68	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	15.73	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)	1.02	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)	70.51	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/1245E/272/02

Reporting Date: 19/08/2025

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1245E/272/02	Sampling Start Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	09/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/08/2025
Sample Description:	500m from River Bank	Analysis start- End Date:	12/08/2025-18/08/2025
Env. Cond.-Sampling:	Temp-29°C/ Humidity-78%	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)	14.99	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.26	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.49	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	66.57	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/1245E/272/03

M/s Moil Limited

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

Reporting Date: 19/08/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1245E/272/03	Sampling Start Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	09/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/08/2025
Sample Description:	Mahuli Village	Analysis start- End Date:	12/08/2025-18/08/2025
Env. Cond.-Sampling:	Temp-29°C/ Humidity-78%	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)	30.41	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	12.23	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	24.23	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	10.28	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	8.37	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)	63.84	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/1245E/272/04

Reporting Date: 19/08/2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1245E/272/04	Sampling Start Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	09/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	12/08/2025
Sample Description:	Kalaphata Village	Analysis start- End Date:	12/08/2025-18/08/2025
Env. Cond.-Sampling:	Temp-29°C/ Humidity-78%	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)	32.08	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	10.87	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	26.68	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.52	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	9.89	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)	1.065	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)	65.19	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

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1245E/272/05

Reporting Date: 19/08/2025

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 Maulik Prajapati

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

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1245E/2 72/05A	Pench river Bank	Day Time	dB(A)Leq	IS 4758	59.4	-
2	Lab/PN/1245E/2 72/05B	500m From River Bank	Day Time	dB(A)Leq	IS 4758	57.2	-
3	Lab/PN/1245E/2 72/05C	Mahali Village	Day Time	dB(A)Leq	IS 4758	53.2	-
4	Lab/PN/1245E/2 72/05D	Kalaphata Village	Day Time	dB(A)Leq	IS 4758	54.4	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1245E/272/06

M/s Moil Limited
Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 19/08/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1245E/272/06	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Surface Water	Analysis Start Date:	12/08/2025
Sample Description:	Pench River Bank	Analysis End Date:	18/08/2025
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	143.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	48.90	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	42.99	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.62	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	12.39	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.12	-	IS 3025- Part 11	-
9	Sulphate	18.25	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	284.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	12.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	173.00	mg/L	APHA 24th Edn 2340 C	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1245E/272/06

M/s Moil Limited

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

Reporting Date : 19/08/2025



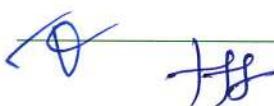
TC-7073

SAMPLE DETAILS

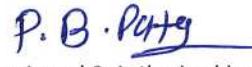
Lab ID:	Lab/PN/1245E/272/06	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Surface Water	Analysis Start Date:	12/08/2025
Sample Description:	Pench River Bank	Analysis End Date:	18/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	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	2.1403	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	38	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	21	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/1245E/272/07

M/s Moil Limited
Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 19/08/2025



TC-7073

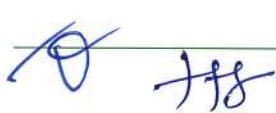
SAMPLE DETAILS

Lab ID:	Lab/PN/1245E/272/07	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Ground Water	Analysis Start Date:	12/08/2025
Sample Description:	GW Of Kalaphata Village Borewell	Analysis End Date:	18/08/2025
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	153.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	52.10	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	53.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.64	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	23.81	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.24	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	24.47	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	228.00	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

Report Number: GGMPL/PN/1245E/272/07

M/s Moil Limited

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

Reporting Date : 19/08/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1245E/272/07	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Ground Water	Analysis Start Date:	12/08/2025
Sample Description:	GW Of Kalaphata Village Borewell	Analysis End Date:	18/08/2025
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	2.68	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500.

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

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--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1245E/272/08

M/s Moil Limited
Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 19/08/2025



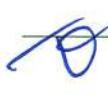
TC-7073

SAMPLE DETAILS

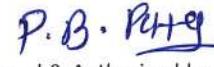
Lab ID:	Lab/PN/1245E/272/08	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Surface Water	Analysis Start Date:	12/08/2025
Sample Description:	Up Stream Pench River	Analysis End Date:	18/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	189.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	55.71	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	61.98	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.88	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	30.13	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.18	-	IS 3025- Part 11	-
9	Sulphate	26.58	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	383.00	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	263.00	mg/L	APHA 24th Edn 2340 C	-

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




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1245E/272/08

M/s Moil Limited
Kalaphata Sand Lease 8.00 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 19/08/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1245E/272/08	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Surface Water	Analysis Start Date:	12/08/2025
Sample Description:	Up Stream Pench River	Analysis End Date:	18/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	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	2.43	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	40	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	26	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/1245E/272/09

M/s Moil Limited

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

Reporting Date : 19/08/2025

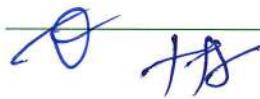


SAMPLE DETAILS

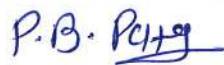
Lab ID:	Lab/PN/1245E/272/09	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Surface Water	Analysis Start Date:	12/08/2025
Sample Description:	Down Stream Pench River	Analysis End Date:	18/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO ₃	196.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	58.52	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	65.98	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	0.99	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	31.10	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.25	-	IS 3025- Part 11	-
9	Sulphate	34.50	mg/L	APHA 24th Edn 4500 SO ₄ E	-
10	Total Dissolved Solids (TDS)	413.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	17.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO ₃	274.00	mg/L	APHA 24th Edn 2340 C	-

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/1245E/272/09

M/s Moil Limited

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

Reporting Date : 19/08/2025



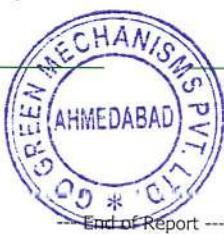
SAMPLE DETAILS

Lab ID:	Lab/PN/1245E/272/09	Sampling Date:	09/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	12/08/2025
Sample Type:	Surface Water	Analysis Start Date:	12/08/2025
Sample Description:	Down Stream Pench River	Analysis End Date:	18/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	0.24	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	2.63	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	70	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	38	MPN/100ml	APHA 9221G 24th Edition	-

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

Reviewed & Authorized by
Tantan Kumar & Dr. Haragnhinda Srichandan



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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1245E/272/10

Reporting Date: 19-08-2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/1245E/272/10	Sampling Start Date	: 08-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12-08-2025
Sample Location	: Pench River Bank		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.66	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	78.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	29.0	°C	GGMPL/SOP/MP/01

Reviewed & Authorized by

Tantan kumar



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Manish Kumawat

----End of Report----

Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1245E/272/10

Reporting Date: 19-08-2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/1245E/272/10	Sampling Start Date	: 08-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12-08-2025
Sample Location	: Pench River Bank		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.66	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	78.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	29.0	°C	GGMPL/SOP/MP/01

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Tantan kumar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1245E/272/11

Reporting Date: 19-08-2025

M/s Moil Limited

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

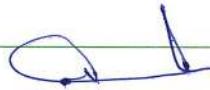


SAMPLE DETAILS

Lab ID	: Lab/PN/1245E/272/11	Sampling Start Date	: 08-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12-08-2025
Sample Location	: 500m From River Bank		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.66	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	78.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	29.0	°C	GGMPL/SOP/MP/01


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1245E/272/12

Reporting Date: 19-08-2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/1245E/272/12	Sampling Start Date	: 08-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12-08-2025
Sample Location	: Mahuli Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.66	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	78.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	29.0	°C	GGMPL/SOP/MP/01

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Tantan kumar



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Report Number: GGMPL/PN/1245E/272/13

Reporting Date: 19-08-2025

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID	: Lab/PN/1245E/272/13	Sampling Start Date	: 08-08-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 09-08-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 12-08-2025
Sample Location	: Kalaphata Village		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.66	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	78.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Temperature	29.0	°C	GGMPL/SOP/MP/01

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