

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1233E/268/01

Reporting Date: 15/08/2025

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1233E/268/01	Sampling Start Date:	07/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	08/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	11/08/2025
Sample Description:	Near Admin Building	Analysis start- End Date:	11/08/2025-14/08/2025
Env. Cond.-Sampling:	Temp -29°C/Humidity-64%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	40.82	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.18	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.38	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	14.45	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	16.95	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)	1.07	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)	72.42	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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1233E/268/02

Reporting Date: 15/08/2025

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106



SAMPLE DETAILS

Lab ID:	Lab/PN/1233E/268/02	Sampling Start Date:	07/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	08/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	11/08/2025
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	11/08/2025-14/08/2025
Env. Cond.-Sampling:	Temp -29°C/Humidity-64%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	39.57	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.86	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	31.61	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.16	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.08	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)	69.62	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/1233E/268/03

Reporting Date: 15/08/2025

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1233E/268/03	Sampling Start Date:	07/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	08/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	11/08/2025
Sample Description:	Near DSU Plant	Analysis start- End Date:	11/08/2025-14/08/2025
Env. Cond.-Sampling:	Temp -29°C/Humidity-64%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM2.5)	38.32	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.60	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	32.73	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.80	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.53	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)	70.83	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/1233E/268/04

Reporting Date: 15/08/2025

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1233E/268/04	Sampling Start Date:	07/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	08/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	11/08/2025
Sample Description:	Near Mine Pit	Analysis start- End Date:	11/08/2025-14/08/2025
Env. Cond.-Sampling:	Temp -29°C/Humidity-64%	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)	34.57	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	16.11	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	33.64	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.05	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)	67.61	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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

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Reporting Date: 15/08/2025

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Maulik Prajapati

Sampling Date: 07/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1233E/268/05A	Near Admin Building	Day Time	dB(A)Leq	IS 4758	54.3	-
2	Lab/PN/1233E/268/05B	Near Vertical Shaft-1	Day Time	dB(A)Leq	IS 4758	59.2	-
3	Lab/PN/1233E/268/05C	Near DSU Plant	Day Time	dB(A)Leq	IS 4758	63.4	-
4	Lab/PN/1233E/268/05D	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	54.2	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1233E/268/06

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairi Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106

Reporting Date : 15/08/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1233E/268/06	Sampling Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	11/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	11/08/2025
Sample Description:	Staff Colony	Analysis End Date:	14/08/2025
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	210.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	52.90	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	25.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	28.67	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.40	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	18.35	mg/L	APHA 24th Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	310.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	250.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B)	1	5

AL & PL AS Per IS 10500

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

18/08

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Tantan kumar & Dr. Haragobinda Srichandan



P. B. Patel

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Mansar Manganese Mines L1 - 194.240 Ha PO.Khairiy Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106

Reporting Date : 15/08/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1233E/268/06	Sampling Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	11/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	11/08/2025
Sample Description:	Staff Colony	Analysis End Date:	14/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	0.1	0.3
15	Fluoride	0.42	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	4.11	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent

AL & PL AS Per IS 10500

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

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Tantan kumar & Dr. Haragobinda Srichandan



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CERTIFICATE OF ANALYSIS

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M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106

Reporting Date : 15/08/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1233E/268/07	Sampling Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	11/08/2025
Sample Type:	Waste Water	Analysis Start Date:	11/08/2025
Sample Description:	Mine Seepage Water	Analysis End Date:	14/08/2025
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	7.72	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	22.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	28.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	6.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	7.81	mg/L	IS 3025- Part 44	-
7	Manganese	0.61	mg/L	GGMPL/SOP/W&WW/46	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1233E/268/08

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106

Reporting Date : 15/08/2025



SAMPLE DETAILS

Lab ID:	Lab/PN/1233E/268/08	Sampling Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	11/08/2025
Sample Type:	Waste Water	Analysis Start Date:	11/08/2025
Sample Description:	STP Intlet	Analysis End Date:	14/08/2025
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	7.18	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	26.00	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)	88.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	BQL (QL=0.5)	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	26.00	mg/L	IS 3025- Part 44	-
7	Manganese	1.52	mg/L	GGMPL/SOP/W&WW/46	-

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

Reviewed & Authorized by
Tantan Kumar



Reviewed & Authorized by
Manish Kumawat

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1233E/268/09

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106

Reporting Date : 15/08/2025

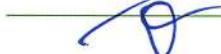


SAMPLE DETAILS

Lab ID:	Lab/PN/1233E/268/09	Sampling Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	11/08/2025
Sample Type:	Waste Water	Analysis Start Date:	11/08/2025
Sample Description:	STP Outlet	Analysis End Date:	14/08/2025
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	7.30	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	12.00	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)	32.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	5.40	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	8.33	mg/L	IS 3025- Part 44	-
7	Manganese	1.10	mg/L	GGMPL/SOP/W&WW/46	-

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



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Tantan Kumar




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1233E/268/10

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106

Reporting Date : 15/08/2025

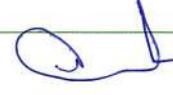


SAMPLE DETAILS

Lab ID:	Lab/PN/1233E/268/10	Sampling Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	11/08/2025
Sample Type:	Waste Water	Analysis Start Date:	11/08/2025
Sample Description:	ETP Inlet	Analysis End Date:	14/08/2025
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	7.30	-	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)	40.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	2.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	11.36	mg/L	IS 3025- Part 44	-
7	Manganese	0.99	mg/L	GGMPL/SOP/W&WW/46	-

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

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Tantan Kumar

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Manish Kumawat



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1233E/268/11

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek
Dist. Nagpur (M.S) 441106

Reporting Date : 15/08/2025



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1233E/268/11	Sampling Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	11/08/2025
Sample Type:	Waste Water	Analysis Start Date:	11/08/2025
Sample Description:	ETP Outlet	Analysis End Date:	14/08/2025
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	7.38	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	30.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	20.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	3.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	4.66	mg/L	IS 3025- Part 44	-
7	Manganese	0.85	mg/L	GGMPL/SOP/W&WW/46	-

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

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Report Number: GGMPL/PN/1233E/268/12

Reporting Date: 15.08.2025

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID	: Lab//PN/1233E/268/12	Sampling Start Date	: 07.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 08.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 11.08.2025
Sample Location	: Near Admin Building		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	29.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01

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Report Number: GGMPL//PN/1233E/268/13

Reporting Date: 15.08.2025

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID	: Lab//PN/1233E/268/13	Sampling Start Date	: 07.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 08.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 11.08.2025
Sample Location	: Near Vertical Shaft-1		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	29.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL//PN/1233E/268/14

Reporting Date: 15.08.2025

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID	: Lab//PN/1233E/268/14	Sampling Start Date	: 07.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 08.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 11.08.2025
Sample Location	: Near DSU Plant		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	29.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL//PN/1233E/268/15

Reporting Date: 15.08.2025

M/s Moil Limited

Mansar Manganese Mines L1 - 194.240 Ha PO.Khairy Bijewada Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID	: Lab//PN/1233E/268/15	Sampling Start Date	: 07.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 08.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 11.08.2025
Sample Location	: Near Mine Pit		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	29.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1241E/269/01

Reporting Date: 15/08/2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding PO.Khairy Bijewada Tah-Ramtek Dist. Nagpur (M.S) 441106



SAMPLE DETAILS

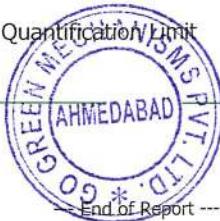
Lab ID:	Lab/PN/1241E/269/01	Sampling Start Date:	07/08/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	08/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	11/08/2025
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	11/08/2025-14/08/2025
Env. Cond.-Sampling:	Temp -29°C/Humidity-64%	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)	14.61	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.71	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.16	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.08	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)	66.42	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1241E/269/02

Reporting Date: 15/08/2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding PO.Khairy Bijewada Tah-Ramtek Dist. Nagpur (M.S) 441106



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Maulik Prajapati

Sampling Date: 07/08/2025
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1241E/2 69/02	Near Weigh Bridge	Day Time	dB(A)Leq	IS 4758	67.2	-

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/1241E/269/03

Reporting Date : 15/08/2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding PO.Khairy Bijewada Tah-Ramtek Dist. Nagpur (M.S) 441106



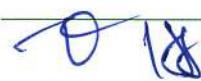
SAMPLE DETAILS

Lab ID:	Lab/PN/1241E/269/03	Sampling Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	11/08/2025
Sample Type:	Ground Water	Analysis Start Date:	11/08/2025
Sample Description:	GW Of Weigh Bridge	Analysis End Date:	14/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

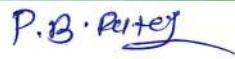
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	205.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	56.91	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	15.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.44	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.09	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.40	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	2.10	mg/L	APHA 24th Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	270.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	27.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	200.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500

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



Reviewed & Authorized by
Tantan Kumar & Dr. Haragobinda Srichandan

Reviewed & Authorized by
Payal Patel

Page No : 1/2

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Report Number: GGMPL/PN/1241E/269/03

Reporting Date : 15/08/2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding PO.Khairy Bijewada Tah-Ramtek Dist. Nagpur (M.S) 441106



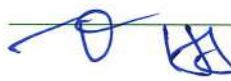
SAMPLE DETAILS

Lab ID:	Lab/PN/1241E/269/03	Sampling Date:	08/08/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	11/08/2025
Sample Type:	Ground Water	Analysis Start Date:	11/08/2025
Sample Description:	GW Of Weigh Bridge	Analysis End Date:	14/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

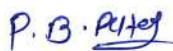
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	10	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.11	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL AS Per IS 10500

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



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Tantan Kumar & Dr. Haragobinda Srichandan

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL//PN/1241E/269/04

Reporting Date: 15.08.2025

M/s Moil Limited

Mansar Manganese Mines South Railway Siding PO.Khairy Bijewada Tah-Ramtek Dist. Nagpur



SAMPLE DETAILS

Lab ID	: Lab//PN/1241E/269/04	Sampling Start Date	: 07.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 08.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 11.08.2025
Sample Location	: Near Weigh Bridge		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	29.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	64.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.1	m/s	GGMPL/SOP/MP/01



Reviewed & Authorized by

Tantan Kumar




Reviewed & Authorized by

Manish Kumawat

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