

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1975D/93M/01

Reporting Date: 27/09/2024

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/01	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near Administrative Building	Analysis start- End Date:	19/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.02	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.80	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.73	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.68	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Kinjal Damor



Authorized Signatory
Gyanvati Shukla

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Sample Description:	Near Administrative Building	Analysis start- End Date:	19/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/02	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	19/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.47	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.61	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.73	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.57	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Kinjal Damor



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Gyanvati Shukla

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TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/02	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	19/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/03	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near DSU Plant	Analysis start- End Date:	19/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.97	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.27	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.24	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near DSU Plant	Analysis start- End Date:	19/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1975D/93M/04

Reporting Date: 27/09/2024

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/04	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near Compressor Room	Analysis start- End Date:	19/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.46	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.73	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.99	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.95	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.75	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Sample Description:	Near Compressor Room	Analysis start- End Date:	19/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

16/09/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1975D/9 3M/05A	Administrive Building	Day Time	dB(A)Leq	IS 4758	66.9	-
2	Lab/PN/1975D/9 3M/05B	near Vertical Staff-1	Day Time	dB(A)Leq	IS 4758	69.2	-
3	Lab/PN/1975D/9 3M/05C	Near DSU Plant	Day Time	dB(A)Leq	IS 4758	60.1	-
4	Lab/PN/1975D/9 3M/05D	Near Compresar Room	Day Time	dB(A)Leq	IS 4758	70.2	-

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

Analyzed By
Kinjal Damor



Authorized Signatory
Gyanvati Shukla

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1975D/93M/06

Reporting Date : 27/09/2024

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/06	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Ground Water	Analysis Start Date:	19/09/2024
Sample Description:	Administrative Building Borewell (GW)	Analysis End Date:	26/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	180.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	56.91	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	75.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.31	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.31	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.23	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	20.26	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	296.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By
Kinjal Damor



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Gyanvati Shukla

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1975D/93M/06

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/09/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/06	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Ground Water	Analysis Start Date:	19/09/2024
Sample Description:	Administrative Building Borewell (GW)	Analysis End Date:	26/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	205.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.04	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500.

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

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Kinjal Damor



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Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1975D/93M/07

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/09/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/07	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Waste Water	Analysis Start Date:	19/09/2024
Sample Description:	Mine Seepage Water Vertical Shaft (WW)	Analysis End Date:	26/09/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.89	-	IS 3025- Part 11	-
2	Total Suspended Solids	12.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	48.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	11.11	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By
Kinjal Damor



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Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1975D/93M/08

Reporting Date : 27/09/2024

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/08	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Waste Water	Analysis Start Date:	19/09/2024
Sample Description:	ETP Inlet (WW)	Analysis End Date:	26/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.42	-	IS 3025- Part 11	-
2	Total Suspended Solids	60.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	256.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	3.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	78	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By
Kinjal Damor



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Gyanvati Shukla

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1975D/93M/09

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/09/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/09	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Waste Water	Analysis Start Date:	19/09/2024
Sample Description:	ETP Outlet (WW)	Analysis End Date:	26/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMP/L/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	37.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	52.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	3.70	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	13	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMP/L/SOP/W & WW/46	NS

Norms As Per CTO.

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

Analyzed By
Kinjal Damor



Authorized Signatory
Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1975D/93M/10

Reporting Date : 27/09/2024

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/10	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Waste Water	Analysis Start Date:	19/09/2024
Sample Description:	STP Inlet (WW)	Analysis End Date:	26/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.86	-	IS 3025- Part 11	-
2	Total Suspended Solids	76.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	144.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	2.9	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	38	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By
Kinjal Damor



Authorized Signatory
Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1975D/93M/11

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 27/09/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1975D/93M/11	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Waste Water	Analysis Start Date:	19/09/2024
Sample Description:	STP Outlet(WW)	Analysis End Date:	26/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.96	-	IS 3025- Part 11	NS
2	Total Suspended Solids	32.00	mg/L	APHA 23rd Edn 2540 D	50
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand	64.00	mg/L	APHA 23rd Edn 5220 B	100
5	Dissolved Oxygen	3.1	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	17	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms As Per CTO.

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

Analyzed By
Kinjal Damor



Authorized Signatory
Gyanvati Shukla

Page No : 1/1

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Report Number: GGMPL/PN/1976D/93M/01

M/s Moil Limited

Mansar Manganese Mines L1 - 108.63 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 25/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1976D/93M/01	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Ground Water	Analysis Start Date:	18/09/2024
Sample Description:	Administrative Building (Borewell) (GW)	Analysis End Date:	25/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Nidhi

Analyzed By
Nidhi Shah



H8

Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1977D/93N/01

Reporting Date: 25/09/2024

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/1977D/93N/01	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near Old OCF	Analysis start- End Date:	18/09/2024-24/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.90	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	19.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.99	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.94	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Priyanka
Analyzed By
Priyanka Shrimali



Manish
Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1977D/93N/01

Reporting Date: 25/09/2024

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)




TC-7073

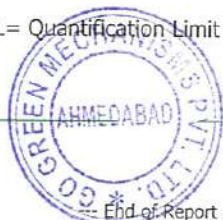
SAMPLE DETAILS

Lab ID:	Lab/PN/1977D/93N/01	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near Old OCF	Analysis start- End Date:	18/09/2024-24/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Priyanka Shrimali




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Manish Kumawat

End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1977D/93N/02

Reporting Date: 25/09/2024

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)




SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 16/09/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1977D/93N/02A	Near Old OCF	Day Time	dB(A)Leq	IS 4758	59.1	-

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1977D/93N/03

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 25/09/2024



TC-7073


SAMPLE DETAILS

Lab ID:	Lab/PN/1977D/93N/03	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Water	Analysis Start Date:	18/09/2024
Sample Description:	Mine Pit Water(Old Durga Pit Water) (GW)	Analysis End Date:	24/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Specification:	
					AL	PL
1	Alkalinity as CaCO ₃	120.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	29.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.55	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	40.62	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	250.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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


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Report Number: GGMPL/PN/1977D/93N/03

M/s Moil Limited

Mansar Manganese Mines (M.S.) L2-5.74 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date : 25/09/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1977D/93N/03	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Water	Analysis Start Date:	18/09/2024
Sample Description:	Mine Pit Water(Old Durga Pit Water) (GW)	Analysis End Date:	24/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	170.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.81	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

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/1979D/930/01

Reporting Date: 25/09/2024

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S.)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1979D/930/01	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near Staff Colony	Analysis start- End Date:	18/09/2024-24/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.96	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.03	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.73	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.33	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1979D/930/01	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near Staff Colony	Analysis start- End Date:	18/09/2024-24/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date : 25/09/2024

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S.)



SAMPLE DETAILS


Lab ID:	Lab/PN/1979D/930/03	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Water	Analysis Start Date:	18/09/2024
Sample Description:	Staff Colony Borewell (GW)	Analysis End Date:	24/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	112.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	34.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	42.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.85	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.65	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.89	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	250.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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


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Reporting Date : 25/09/2024

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1979D/930/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Staff Colony Borewell (GW)
Sample Quantity: 3 L
Sample Condition: Satisfactory

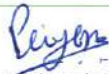
Sampling Date: 17/09/2024
Sample Receipt Date: 18/09/2024
Analysis Start Date: 18/09/2024
Analysis End Date: 24/09/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	170.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.73	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500

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


Analyzed By
Priyanka Shrimali



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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1979D/930/02

Reporting Date: 25/09/2024

M/s Moil Limited

Mansar Manganese Mines (M.S.) L3-25.15 Ha Tah-Ramtek Dist. Nagpur (M.S.)



TC-7073


SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 16/09/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1979D/930/02A	Near Staff Colony	Day Time	dB(A)Leq	IS 4758	54.5	-

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


Analyzed By
Priyanka Shrimali



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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1981D/93P/01

Reporting Date: 27/09/2024

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S.)



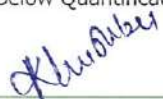
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1981D/93P/01	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near VT Center	Analysis start- End Date:	18/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.61	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.98	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.55	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.94	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.54	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Khushbu Suthar




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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1981D/93P/01

Reporting Date: 27/09/2024

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)

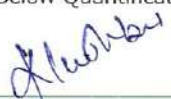


SAMPLE DETAILS

Lab ID:	Lab/PN/1981D/93P/01	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Near VT Center	Analysis start- End Date:	18/09/2024-26/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25+5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1981D/93P/02

Reporting Date: 27/09/2024

M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0.94 Ha Tah-Ramtek Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

16/09/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1981D/93P/02A	Near VT Center	Day Time	dB(A)Leq	IS 4758	58.6	-

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

Khushbu

Analyzed By
Khushbu Suthar



Manish

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1983D/93Q/01

Reporting Date: 26/09/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1983D/93Q/01	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	18/09/2024-25/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.52	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.06	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.73	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.56	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1983D/93Q/01

Reporting Date: 26/09/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1983D/93Q/01	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	18/09/2024-25/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1983D/93Q/02

Reporting Date: 26/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1983D/93Q/02	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Nr Weigh Bridge	Analysis start- End Date:	18/09/2024-25/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.39	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.65	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.28	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.33	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Report Number : GGMPL/PN/1983D/93Q/02

Reporting Date: 26/09/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1983D/93Q/02	Sampling Start Date:	16/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/09/2024
Sample Description:	Nr Weigh Bridge	Analysis start- End Date:	18/09/2024-25/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Khuishbu Suthar



Authorized Signatory
Manish Kumawat

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1983D/93Q/03

Reporting Date: 26/09/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Laboratory Representative

Sampling Date:

16/09/2024

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1983D/93Q/03A	End point of Railway Siding	Day Time	dB(A)Leq	IS 4758	63.1	-
2	Lab/PN/1983D/93Q/03A	Near Weigh Bridge	Day Time	dB(A)Leq	IS 4758	68.6	-

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

Analyzed By
Khushbu Suthar



--- End of Report ---

Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1983D/93Q/04

Reporting Date : 26/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1983D/93Q/04	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Ground Water	Analysis Start Date:	18/09/2024
Sample Description:	End Point of Railway Siding (GW)	Analysis End Date:	25/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	188.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	44.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	39.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.78	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.27	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.58	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.56	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	326.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	7.0	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

[Signature]
Analyzed By
Khushbu Suthar



[Signature]
Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1983D/93Q/04

Reporting Date : 26/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1983D/93Q/04	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Ground Water	Analysis Start Date:	18/09/2024
Sample Description:	End Point of Railway Siding (GW)	Analysis End Date:	25/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	216.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.35	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500.

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

Khushbu
Analyzed By
Khushbu Suthar



Manish
Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1983D/93Q/05

Reporting Date : 26/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1983D/93Q/05	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Ground Water	Analysis Start Date:	18/09/2024
Sample Description:	Nr Weight Bridge (GW)	Analysis End Date:	25/09/2024
Sample Quantity:	3 l	Sampling Method:	GGMPI /WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	167.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	38.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.55	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.41	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.69	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.66	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	298.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Khushbu
Analyzed By
Khushbu Suthar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1983D/93Q/05

Reporting Date : 26/09/2024

M/s Moil Limited

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



SAMPLE DETAILS

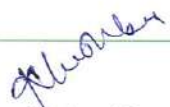
Lab ID:	Lab/PN/1983D/93Q/05	Sampling Date:	17/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/09/2024
Sample Type:	Ground Water	Analysis Start Date:	18/09/2024
Sample Description:	Nr Weight Bridge (GW)	Analysis End Date:	25/09/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	186.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.14	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500.

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


Analyzed By
Khushbu Suthar




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2029D/95U/01

Reporting Date: 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)




SAMPLE DETAILS

Lab ID:	Lab/PN/2029D/95U/01	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	21/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.88	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.96	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.93	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.33	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2029D/95U/01

Reporting Date: 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2029D/95U/01	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	21/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	62	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Priyanka Shrimali




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2029D/95U/02

Reporting Date: 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2029D/95U/02	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Waste Dump Side	Analysis start- End Date:	21/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.75	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	24.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.41	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.35	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.56	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.97	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2029D/95U/02

Reporting Date: 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2029D/95U/02	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Waste Dump Side	Analysis start- End Date:	21/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	61	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2029D/95U/03

Reporting Date: 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2029D/95U/03	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	21/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	55.19	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.09	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.71	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.00	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2029D/95U/03

Reporting Date: 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



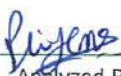
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2029D/95U/03	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	21/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	62	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2029D/95U/04

Reporting Date: 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2029D/95U/04	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Mine Road (Near Khasra No.19)	Analysis start- End Date:	21/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.07	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.95	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.59	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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Report Number : GGMPL/PN/2029D/95U/04

Reporting Date: 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

Lab ID:	Lab/PN/2029D/95U/04	Sampling Start Date:	19/09/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	20/09/2024
Sample Type:	Ambient Air	Sample Receipt Date:	21/09/2024
Sample Description:	Mine Road (Near Khasra No.19)	Analysis start- End Date:	21/09/2024-27/09/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	61	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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Report Number: GGMPL/PN/2029D/95U/05

Reporting Date: 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)




SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 19/09/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2029D/9 5U/05A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	61.2	-
2	Lab/PN/2029D/9 5U/05B	Waste Dump Area	Day Time	dB(A)Leq	IS 4758	59.7	-
3	Lab/PN/2029D/9 5U/05C	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	59.8	-
4	Lab/PN/2029D/9 5U/05D	Main Road Near Khasra No. 19	Day Time	dB(A)Leq	IS 4758	61.7	-

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2029D/95U/06

Reporting Date : 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2029D/95U/06	Sampling Date:	20/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/09/2024
Sample Type:	Waste Water	Analysis Start Date:	21/09/2024
Sample Description:	Mine pit Water (WW)	Analysis End Date:	27/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.04	-	IS 3025- Part 11	-
2	Total Suspended Solids	22.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	104.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.40	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	30.00	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Priyanka
Analyzed By
Priyanka Shrimali



P. Patel
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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2029D/95U/07

Reporting Date : 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS

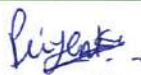
Lab ID:	Lab/PN/2029D/95U/07	Sampling Date:	20/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/09/2024
Sample Type:	Water	Analysis Start Date:	21/09/2024
Sample Description:	Open Dugwell (GW)	Analysis End Date:	27/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	66.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.45	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	31.59	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.85	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	56.52	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	330.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

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/2029D/95U/07

Reporting Date : 28/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



SAMPLE DETAILS


Lab ID:	Lab/PN/2029D/95U/07	Sampling Date:	20/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/09/2024
Sample Type:	Water	Analysis Start Date:	21/09/2024
Sample Description:	Open Dugwell (GW)	Analysis End Date:	27/09/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	220.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.22	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500

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


Analyzed By
Priyanka Shrimali



--- End of Report ---


Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030D/95U/01

Reporting Date : 27/09/2024

M/s Moil Limited

Parsoda Manganese Mines(M.S) L1 Tah- Parseoni Dist. Nagpur (M.S)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2030D/95U/01	Sampling Date:	20/09/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	21/09/2024
Sample Type:	Ground Water	Analysis Start Date:	21/09/2024
Sample Description:	Open Dug well (GW)	Analysis End Date:	27/09/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By
Nidhi Shah



Authorized Signatory
Dr. Haragobinda Srichandan

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