

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2426C/93M/V4/01

M/s Moil Limited

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

Reporting Date : 12/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/01	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	01/03/2024
Sample Description:	Administrative Building (Borewell) (GW)	Analysis End Date:	11/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

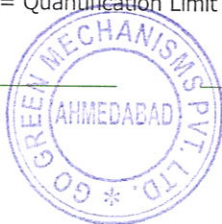
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	6.68	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO ₃	184.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	58.52	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	90.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.20	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	20.90	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	29.13	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	362.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	232.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

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

Vishal

Analyzed By
Jadav Vishal



Manish

Authorized Signatory
Manish Kumawat

Page No : 1/2

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TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/01	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	01/03/2024
Sample Description:	Administrative Building (Borewell) (GW)	Analysis End Date:	11/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

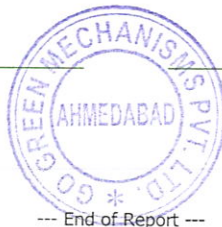
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.88	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.96	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

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

Vishal

Analyzed By
Jadav Vishal



Manish

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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2426C/93M/V4/01A

Reporting Date : 12/03/2024

M/s Moil Limited

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

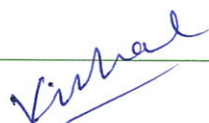
SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/01	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	01/03/2024
Sample Description:	Administrative Building (Borewell) (GW)	Analysis End Date:	11/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

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



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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2426C/93M/V4/02

Reporting Date : 12/03/2024

M/s Moil Limited

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




SAMPLE DETAILS


Lab ID:	Lab/PN/2426C/93M/V4/02	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Waste Water	Analysis Start Date:	01/03/2024
Sample Description:	Mine Seapge water (Vertical Shaft) (WW)	Analysis End Date:	11/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.38	-	IS 3025- Part 11	-
2	Total Suspended Solids	23.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.3	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	24	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.214	mg/L	APHA 23rd Edn 3120 B	-

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


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Page No : 1/1

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Report Number: GGMPL/PN/2426C/93M/V4/03

M/s Moil Limited

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

Reporting Date : 12/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/03	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Waste Water	Analysis Start Date:	01/03/2024
Sample Description:	ETP Inlet (WW)	Analysis End Date:	11/03/2024
Sample Quantity:	4.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.82	-	IS 3025- Part 11	-
2	Total Suspended Solids	52.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	310.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.5	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	96	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.109	mg/L	APHA 23rd Edn 3120 B	-

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



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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2426C/93M/V4/04

M/s Moil Limited

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

Reporting Date : 12/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/04	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Waste Water	Analysis Start Date:	01/03/2024
Sample Description:	ETP Outlet (WW)	Analysis End Date:	11/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.15	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	28.00	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	80.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.3	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	23	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.114	mg/L	APHA 23rd Edn 3120 B	NS

Norms As Per CCA.

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


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Page No : 1/1

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Report Number: GGMP/L/PN/2426C/93M/V4/05

M/s Moil Limited

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

Reporting Date : 12/03/2024




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/05	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Waste Water	Analysis Start Date:	01/03/2024
Sample Description:	STP Inlet	Analysis End Date:	11/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.64	-	IS 3025- Part 11	-
2	Total Suspended Solids	57.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	110.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	3.0	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	34	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.154	mg/L	APHA 23rd Edn 3120 B	-

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2426C/93M/V4/06

M/s Moil Limited

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

Reporting Date : 12/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2426C/93M/V4/06
Sample Drawn By: Laboratory Representative
Sample Type: Waste Water
Sample Description: STP Outlet
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 26/02/2024
Sample Receipt Date: 01/03/2024
Analysis Start Date: 01/03/2024
Analysis End Date: 11/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.52	-	IS 3025- Part 11	NS
2	Total Suspended Solids	22.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	100
5	Dissolved Oxygen	4.7	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	19	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.156	mg/L	APHA 23rd Edn 3120 B	NS

Norms as per CCA.

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Analyzed By
Jadav Vishal



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Manish Kumawat

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Report Number : GGMPL/PN/2426C/93M/V4/07

Reporting Date: 12/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/07	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Administrative Building	Analysis start- End Date:	01/03/2024-11/03/2024
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)	66.23	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.82	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.54	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.77	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	17.24	µg/Nm3	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)	1.09	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
Jadav Vishal




Authorized Signatory
Manish Kumawat

Page No : 1/2

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Head Office & Lab

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Mobile No : +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2426C/93M/V4/07

Reporting Date: 12/03/2024

M/s Moil Limited

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



TC-7073

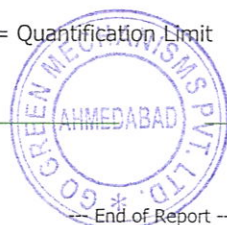
SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/07	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Administrative Building	Analysis start- End Date:	01/03/2024-11/03/2024
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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	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	6.3	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/2426C/93M/V4/08

M/s Moil Limited

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

Reporting Date: 01/01/0001



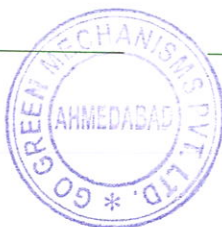
SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/08	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	01/03/2024-11/03/2024
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)	71.81	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.40	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.67	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.96	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	17.24	µg/Nm3	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)	1.10	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/2426C/93M/V4/08

Reporting Date: 01/01/0001

M/s Moil Limited

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



TC-7073

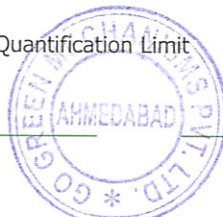
SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/08	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	01/03/2024-11/03/2024
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	31
13	Relative Humidity	52	%	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	6.3	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/2426C/93M/V4/09

Reporting Date: 12/03/2024

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/2426C/93M/V4/09	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near DSU Plant	Analysis start- End Date:	01/03/2024-11/03/2024
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)	68.22	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.14	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.48	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.46	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	21.55	µg/Nm3	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Jadav Vishal



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2426C/93M/V4/09

Reporting Date: 12/03/2024

M/s Moil Limited

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



TC-7073

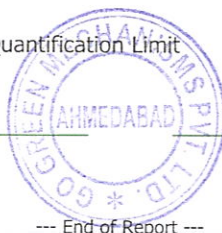
SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/09	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near DSU Plant	Analysis start- End Date:	01/03/2024-11/03/2024
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	6.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Jadav Vishal



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2426C/93M/V4/10

Reporting Date: 12/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/10	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near Compressor Room	Analysis start- End Date:	01/03/2024-11/03/2024
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)	62.86	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)	9.28	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.21	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.39	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.81	µg/Nm3	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

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Reporting Date: 12/03/2024

M/s Moil Limited

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



TC-7073

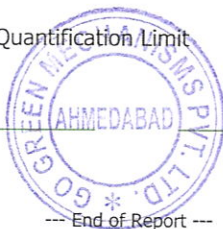
SAMPLE DETAILS

Lab ID:	Lab/PN/2426C/93M/V4/10	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near Compressor Room	Analysis start- End Date:	01/03/2024-11/03/2024
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	52	%	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	6.3	m/s	GGMPL/SOP/MP/01:2020	NS

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Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426
Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2426C/93M/V4/11

Reporting Date: 12/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

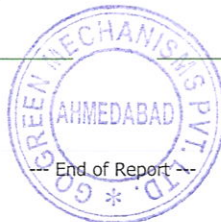
Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 26/02/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2426C/93M/V4/11/01	Near Ventilation	Day Time	dB(A)Leq	IS 4758	63.6	-
2	Lab/PN/2426C/93M/V4/11/02	Near Vertical Shaft	Day Time	dB(A)Leq	IS 4758	66.2	-
3	Lab/PN/2426C/93M/V4/11/03	Near DSU Plant	Day Time	dB(A)Leq	IS 4758	65.1	-
4	Lab/PN/2426C/93M/V4/11/04	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	68.8	-

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

Analyzed By
Jadav Vishal



Authorized Signatory
Manish Kumawat

Page No : 1/1

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2427C/93N/V4/01

Reporting Date : 13/03/2024

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/2427C/93N/V4/01	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	02/03/2024
Sample Description:	(GW) Mine Pit Water(Old Durga Pit Water)	Analysis End Date:	12/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.02	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	152.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	30.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	20.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.35	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.19	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	29.63	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	260.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	154.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	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

Kinjal Damor
Analyzed By
Kinjal Damor



Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2427C/93N/V4/01

Reporting Date : 13/03/2024

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/2427C/93N/V4/01	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	02/03/2024
Sample Description:	(GW) Mine Pit Water(Old Durga Pit Water)	Analysis End Date:	12/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	6.19	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as per IS 10500.

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

Kinjal
Analyzed By
Kinjal Damor



Manish
Authorized Signatory
Manish Kumawat

--- End of Report ---

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2427C/93N/V4/01A

Reporting Date : 13/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

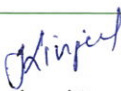
Lab ID:	Lab/PN/2427C/93N/V4/01	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	02/03/2024
Sample Description:	(GW) Mine Pit Water(Old Durga Pit Water)	Analysis End Date:	12/03/2024
Sample Quantity:	4.7 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

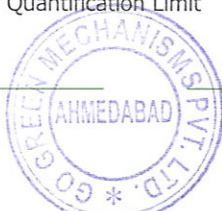
Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL as per IS 10500.

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


Analyzed By
Kinjal Damor



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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/2427C/93N/V4/02

Reporting Date: 13/03/2024

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/2427C/93N/V4/02	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/02/2024
Sample Description:	Near Old OCF	Analysis start- End Date:	02/03/2024-12/03/2024
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)	68.09	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.86	µg/m3	GGMP/L/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.48	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.67	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.74	µg/Nm3	GGMP/L/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)	1.16	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/2427C/93N/V4/02

Reporting Date: 13/03/2024

M/s Moil Limited

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



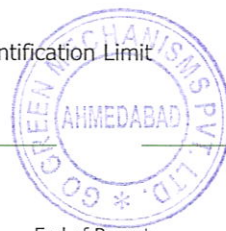
SAMPLE DETAILS

Lab ID:	Lab/PN/2427C/93N/V4/02	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/02/2024
Sample Description:	Near Old OCF	Analysis start- End Date:	02/03/2024-12/03/2024
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	40	%	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	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Kinjal Damor



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2428C/930/V4 /01

M/s Moil Limited

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

Reporting Date : 11/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2428C/930/V4 /01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Staff Colony Borewell (GW)
Sample Quantity: 4.8 L
Sample Condition: Satisfactory

Sampling Date: 26/02/2024
Sample Receipt Date: 01/03/2024
Analysis Start Date: 02/03/2024
Analysis End Date: 09/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.12	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO ₃	135.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	52.90	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	58.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	9.72	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	32.17	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	288.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	172.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	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

Analyzed By
Nidhi Shah



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2428C/930/V4 /01

M/s Moil Limited

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

Reporting Date : 11/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2428C/930/V4 /01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Staff Colony Borewell (GW)
Sample Quantity: 4.8 L
Sample Condition: Satisfactory


Sampling Date: 26/02/2024
Sample Receipt Date: 01/03/2024
Analysis Start Date: 02/03/2024
Analysis End Date: 09/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.98	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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


Analyzed By
Nidhi Shah



--- End of Report ---


Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2428C/930/V4 /01A

Reporting Date : 11/03/2024

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/2428C/930/V4 /01	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	02/03/2024
Sample Description:	Staff Colony Borewell (GW)	Analysis End Date:	09/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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


Analyzed By
Nidhi Shah



--- End of Report ---


Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2428C/930/V4 /02

Reporting Date: 11/03/2024

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/2428C/930/V4 /02	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near Staff Colony	Analysis start- End Date:	02/03/2024-09/03/2024
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)	73.02	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.21	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.34	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.35	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.39	µg/Nm3	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Nidhi Shah




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Manish Kumawat

Page No : 1/2

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2428C/930/V4 /02

Reporting Date: 11/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

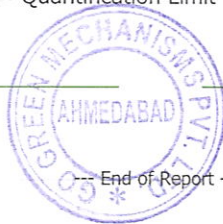
Lab ID:	Lab/PN/2428C/930/V4 /02	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near Staff Colony	Analysis start- End Date:	02/03/2024-09/03/2024
Env. Cond.-Sampling:	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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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



Analyzed By
Nidhi Shah



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2428C/930/V4 /03

Reporting Date: 11/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 26/02/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2428C/930/V4 /03A	Near Staff Colony	Day Time	dB(A)Leq	IS 4758	56.3	-

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


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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2429C/93P/V4/01

M/s Moil Limited

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

Reporting Date : 09/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2429C/93P/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: VT Center Borewell (GW)
Sample Quantity: 4.8 L
Sample Condition: Satisfactory


Sampling Date: 26/02/2024
Sample Receipt Date: 01/03/2024
Analysis Start Date: 02/03/2024
Analysis End Date: 08/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

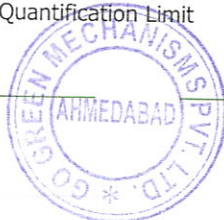
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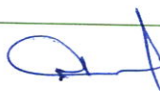
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.95	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	184.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	80.16	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	84.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.44	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	24.30	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	50.09	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	385.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	300.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	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


Analyzed By
Priyanka Shrimali




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Manish Kumawat

Page No : 1/2

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Reporting Date : 09/03/2024

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/2429C/93P/V4/01	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	02/03/2024
Sample Description:	VT Center Borewell (GW)	Analysis End Date:	08/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.50	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

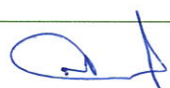
AL & PL as Per IS 10500

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


Analyzed By
Priyanka Shrimali



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Report Number: GGMPL/PN/2429C/93P/V4/01A

Reporting Date : 09/03/2024

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/2429C/93P/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: VT Center Borewell (GW)
Sample Quantity: 4.8 L
Sample Condition: Satisfactory

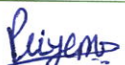
Sampling Date: 26/02/2024
Sample Receipt Date: 01/03/2024
Analysis Start Date: 02/03/2024
Analysis End Date: 08/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent


AL & PL as Per IS 10500

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


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Reporting Date: 09/03/2024

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2429C/93P/V4/02	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near VT Center	Analysis start- End Date:	02/03/2024-08/03/2024
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)	69.33	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.13	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.56	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.12	µg/Nm3	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)	1.00	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




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Manish Kumawat

Page No : 1/2

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Head Office & Lab

Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426
Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2429C/93P/V4/02

Reporting Date: 09/03/2024

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/2429C/93P/V4/02	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near VT Center	Analysis start- End Date:	02/03/2024-08/03/2024
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2429C/93P/V4/03

Reporting Date: 09/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

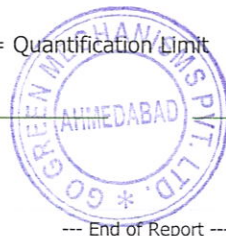
Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 26/02/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2429C/93P/V4/03A	Near VT Center	Day Time	dB(A)Leq	IS 4758	57.1	-

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/2430C/93Q/V4/01

Reporting Date : 13/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

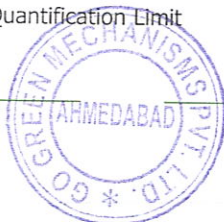
Lab ID:	Lab/PN/2430C/93Q/V4/01	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	02/03/2024
Sample Description:	G.W. of End Point of Railway Siding Borewell Water	Analysis End Date:	12/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Specification:	
					AL	PL
1	pH at 25 °C	7.20	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	41.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	31.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.42	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	23.32	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	18.81	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	310.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	198.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

Analyzed By
Dr. Haragobinda Srichandan



Authorized Signatory
Manish Kumawat

Page No : 1/2

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Report Number: GGMPL/PN/2430C/93Q/V4/01

Reporting Date : 13/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2430C/93Q/V4/01	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	02/03/2024
Sample Description:	G.W. of End Point of Railway Siding Borewell Water	Analysis End Date:	12/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
13	Turbidity	2.0	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.43	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

Analyzed By
Dr. Haragobinda Srcihandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2430C/93Q/V4/01A

Reporting Date : 13/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/2430C/93Q/V4/01	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	02/03/2024
Sample Description:	G.W. of End Point of Railway Siding Borewell	Analysis End Date:	12/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters*	Results	Unit	Test Method	Specification:	
					AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

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M/s Moil Limited

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

Reporting Date : 13/03/2024



SAMPLE DETAILS

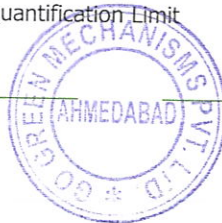
Lab ID:	Lab/PN/2430C/93Q/V4/02	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	02/03/2024
Sample Description:	Ground Water Near Weigh Bridge (Borewell Water)	Analysis End Date:	12/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.53	-	IS 3025-Part 11	6.5 - 8.5	No Relaxation
2	Alkalinity as CaCO ₃	110.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	33.26	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	39.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.49	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	16.28	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	23.66	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	600
10	Total Dissolved Solids	308.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	150.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL as per IS 10500.

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

Analyzed By
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M/s Moil Limited

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

Reporting Date : 13/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2430C/93Q/V4/02	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	02/03/2024
Sample Description:	Ground Water Near Weigh Bridge (Borewell Water)	Analysis End Date:	12/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	5.14	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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

Analyzed By
Dr. Haragobinda Srichandan



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Manish Kumawat

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Page No : 2/2

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Report Number: GGMPL/PN/2430C/93Q/V4/02A

Reporting Date : 13/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/2430C/93Q/V4/02	Sampling Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/03/2024
Sample Type:	Water	Analysis Start Date:	02/03/2024
Sample Description:	Ground Water Near Weigh Bridge (Borewell Water)	Analysis End Date:	12/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL as per IS 10500.

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Report Number : GGMPL/PN/2430C/93Q/V4/03

M/s Moil Limited

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

Reporting Date: 13/03/2024




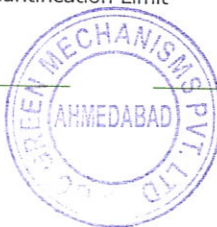
SAMPLE DETAILS

Lab ID:	Lab/PN/2430C/93Q/V4/03	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	02/03/2024-12/03/2024
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)	66.70	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.59	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.01	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.12	µg/Nm3	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)	1.15	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
Dr. Haragobinda Srichandan




Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2430C/93Q/V4/03

Reporting Date: 13/03/2024

M/s Moil Limited

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



TC-7073

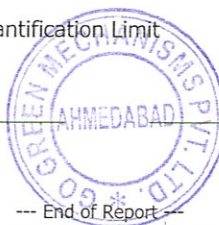
SAMPLE DETAILS

Lab ID:	Lab/PN/2430C/93Q/V4/03	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	02/03/2024-12/03/2024
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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	45	%	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	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Dr. Haragobinda Srcihandan



Authorized Signatory
Manish Kumawat

--- End of Report ---

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2430C/93Q/V4/04

Reporting Date: 13/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/2430C/93Q/V4/04	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	02/03/2024-12/03/2024
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)	62.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.76	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	BQL (QL=5)	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	1
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	5
9	Carbon Monoxide (CO)	1.14	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
Dr. Haragobinda Srcihandan




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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2430C/93Q/V4/04

Reporting Date: 13/03/2024

M/s Moil Limited

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



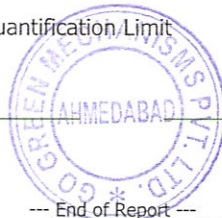
SAMPLE DETAILS

Lab ID:	Lab/PN/2430C/93Q/V4/04	Sampling Start Date:	26/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/03/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	02/03/2024-12/03/2024
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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	45	%	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	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Dr. Haragobinda Srichandan



Authorized Signatory
Manish Kumawat

Page No : 2/2

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Head Office & Lab

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Mobile No : +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2430C/93Q/V4/05

Reporting Date: 13/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

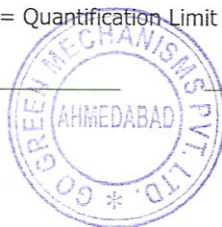
Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 26/02/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2430C/93Q/V4/05A	End Point of Railway Siding	Day Time	dB(A)Leq	IS 4758	67.9	-
2	Lab/PN/2430C/93Q/V4/05B	Near Weigh Bridge	Day Time	db(A)Leq	IS 4758	60.3	-

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


Analyzed By
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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2467C/95U/V4/01

M/s Moil Limited

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

Reporting Date : 15/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2467C/95U/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Waste Water
Sample Description: WW Mine Pit Water
Sample Quantity: 4.5L
Sample Condition: Satisfactory

Sampling Date: 01/03/2024
Sample Receipt Date: 04/03/2024
Analysis Start Date: 05/03/2024
Analysis End Date: 14/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.95	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	31.00	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	130.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	6.06	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	40	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	2

Norms As Per CTO

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

Priyanka
Analyzed By
Priyanka Shrimali



--- End of Report ---

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2467C/95U/V4/02

Reporting Date : 15/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2467C/95U/V4/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Open Dugwell
Sample Quantity: 4.5L
Sample Condition: Satisfactory

Sampling Date: 01/03/2024
Sample Receipt Date: 04/03/2024
Analysis Start Date: 05/03/2024
Analysis End Date: 14/03/2024
Sampling Method: GGMP/L/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	205.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	32.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	64.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.35	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.59	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.9	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	55.49	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	385.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	11.00	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


Analyzed By
Priyanka Shrimali




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Manish Kumawat

Page No : 1/2

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Reporting Date : 15/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/2467C/95U/V4/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Open Dugwell
Sample Quantity: 4.5L
Sample Condition: Satisfactory


Sampling Date: 01/03/2024
Sample Receipt Date: 04/03/2024
Analysis Start Date: 05/03/2024
Analysis End Date: 14/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	175.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	2.0	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	4.51	mg/L	APHA 23rd Edn 4500 NO3 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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Reporting Date: 15/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2467C/95U/V4/03	Sampling Start Date:	01/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2024
Sample Description:	Nr Mine Office	Analysis start- End Date:	05/03/2024-14/03/2024
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)	68.81	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.91	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	µg/Nm3	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)	1.14	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
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2467C/95U/V4/03

Reporting Date: 15/03/2024

M/s Moil Limited

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




TC-7073

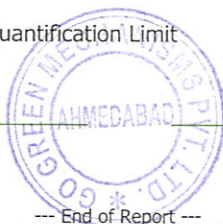
SAMPLE DETAILS

Lab ID:	Lab/PN/2467C/95U/V4/03	Sampling Start Date:	01/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2024
Sample Description:	Nr Mine Office	Analysis start- End Date:	05/03/2024-14/03/2024
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	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	32	%	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	6.7	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/2467C/95U/V4/04

Reporting Date: 15/03/2024

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2467C/95U/V4/04	Sampling Start Date:	01/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2024
Sample Description:	Waste Dump Area	Analysis start- End Date:	05/03/2024-14/03/2024
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)	70.97	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.48	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.19	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.78	µg/Nm3	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/2467C/95U/V4/04

Reporting Date: 15/03/2024

M/s Moil Limited

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




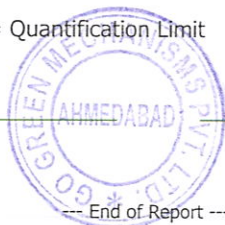
SAMPLE DETAILS

Lab ID:	Lab/PN/2467C/95U/V4/04	Sampling Start Date:	01/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2024
Sample Description:	Waste Dump Area	Analysis start- End Date:	05/03/2024-14/03/2024
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	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	32	%	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	6.7	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/2467C/95U/V4/05

Reporting Date: 15/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/2467C/95U/V4/05	Sampling Start Date:	01/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	05/03/2024-14/03/2024
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)	69.82	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.01	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.24	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.00	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.33	µg/Nm3	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)	1.14	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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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2467C/95U/V4/05

Reporting Date: 15/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2467C/95U/V4/05	Sampling Start Date:	01/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	05/03/2024-14/03/2024
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	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	32	%	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	6.7	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/2467C/95U/V4/06

Reporting Date: 15/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/2467C/95U/V4/06	Sampling Start Date:	01/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2024
Sample Description:	Main Road (Nr Khasra No 19)	Analysis start- End Date:	05/03/2024-14/03/2024
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)	71.10	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	15.66	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	20.48	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	BQL (QL=10)	µg/m ³	IS 5182- Part 9	100
6	Ammonia (NH ₃)	10.05	µg/Nm ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6

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Reporting Date: 15/03/2024

M/s Moil Limited

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



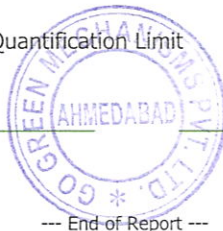
SAMPLE DETAILS

Lab ID:	Lab/PN/2467C/95U/V4/06	Sampling Start Date:	01/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	02/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	04/03/2024
Sample Description:	Main Road (Nr Khasra No 19)	Analysis start- End Date:	05/03/2024-14/03/2024
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	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	32	%	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	6.7	m/s	GGMPL/SOP/MP/01:2020	NS

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2467C/95U/V4/07

Reporting Date: 15/03/2024

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: 01/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2467C/95U/V4/07A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	53.2	-
2	Lab/PN/2467C/95U/V4/07B	Waste Dump Area	Day Time	dB(A)Leq	IS 4758	60.9	-
3	Lab/PN/2467C/95U/V4/07C	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	59.2	-
4	Lab/PN/2467C/95U/V4/07D	Main Road Near Khasra No. 19	Day Time	dB(A)Leq	IS 4758	57.2	-

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2473C/97U/V4/01

M/s Moil Limited

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

Reporting Date : 11/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2473C/97U/V4/01	Sampling Date:	01/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/03/2024
Sample Type:	Water	Analysis Start Date:	05/03/2024
Sample Description:	GW of Open Dugwell	Analysis End Date:	09/03/2024
Sample Quantity:	300 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	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

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

Nidhi

Analyzed By
Nidhi Shah



--- End of Report ---

118

Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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