

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/V4/01

M/s Moil Limited

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

Reporting Date: 12/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2426C/93M/V4/01

Laboratory Representative

Water

Administrative Building (Borewell) (GW) 4.8 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Packing:

Sampling Method:

26/02/2024

01/03/2024 01/03/2024 11/03/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 ℃	6.68	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	362.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

Analyzed By

Jadav Vishal

Authorized Signatory Manish Kumawat

Page No: 1/2

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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:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2426C/93M/V4/01

Laboratory Representative Water

Administrative Building (Borewell) (GW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

26/02/2024

01/03/2024 01/03/2024 11/03/2024

GGMPL/WI/27A 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

Analyzed By Jadav Vishal

End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

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/V4/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Administrative Building (Borewell) (GW)

Sample Quantity:

Satisfactory

Sample Condition:

4.8 L

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

26/02/2024

01/03/2024 01/03/2024

11/03/2024 GGMPL/WI/27A

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

Analyzed By Jaday Vishal

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Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2426C/93M/V4/02

Laboratory Representative Waste Water

Mine Seapge water (Vertical Shaft) (WW) 4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

26/02/2024

01/03/2024 01/03/2024 11/03/2024 GGMPL/WI/27A

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 o 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

Analyzed By Jaday Vishal

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CERTIFICATE OF ANALYSIS

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



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2426C/93M/V4/03

Sample Drawn By: Sample Type:

Laboratory Representative

Waste Water

Sample Description: Sample Quantity:

ETP Inlet (WW)

Sample Condition:

4.5L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

26/02/2024 01/03/2024

01/03/2024 11/03/2024

GGMPL/WI/27A 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 o 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

Analyzed By Jadav Vishal

End of Report ---

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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:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2426C/93M/V4/04

Laboratory Representative Waste Water

4.5 L

ETP Outlet (WW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

26/02/2024 01/03/2024 01/03/2024

11/03/2024 GGMPL/WI/27A

Sealed

r.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 o 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

Analyzed By laday Vishal

End of Report

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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/V4/05

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

STP Inlet

Sample Quantity: Sample Condition: 4.5 L Satisfactory Sampling Date:

26/02/2024 Sample Receipt Date: 01/03/2024

Analysis Start Date:

Analysis End Date: Sampling Method:

01/03/2024 11/03/2024 GGMPL/WI/27A

Packing: Sealed

		Unit	Test Method	Norm
pH at 25 °C	6.64	-	IS 3025- Part 11	-
Total Suspended Solids	57.00	mg/L	APHA 23rd Edn 2540 D	
Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
Chemical Oxygen Demand	110.00	mg/L	APHA 23rd Edn 5220 B	
Dissolved Oxygen	3.0	mg/L	IS 3025- Part 38	-
BOD at 27 o C for 3 days	34	mg/L	IS 3025- Part 44	
Manganese as Mn	0.154	mg/L	APHA 23rd Edn 3120 B	_
	Oil and Grease Chemical Oxygen Demand Dissolved Oxygen BOD at 27 o C for 3 days	Oil and Grease BQL (QL=2) Chemical Oxygen Demand 110.00 Dissolved Oxygen 3.0 BOD at 27 o C for 3 days 34	Oil and Grease BQL (QL=2) mg/L Chemical Oxygen Demand 110.00 mg/L Dissolved Oxygen 3.0 mg/L BOD at 27 o C for 3 days 34 mg/L	Total Suspended Solids 57.00 mg/L APHA 23rd Edn 2540 D Oil and Grease BQL (QL=2) mg/L IS 3025- Part 39 Chemical Oxygen Demand 110.00 mg/L APHA 23rd Edn 5220 B Dissolved Oxygen 3.0 mg/L IS 3025- Part 38 BOD at 27 o C for 3 days 34 mg/L IS 3025- Part 44

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

Analyzed By Jadav Vishal

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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



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2426C/93M/V4/06

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description: Sample Quantity: STP Outlet 4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 26/02/2024

01/03/2024 01/03/2024 11/03/2024

GGMPL/WI/27A

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 o 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.

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

Analyzed By Jadav Vishal

--- End of Report ---

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

M/s Moil Limited

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

Reporting Date: 12/03/2024



25 ± 5 °C

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt:

Arsenic as As

Lab/PN/2426C/93M/V4/07 Laboratory Representative

Ambient Air

Administrative Building Ambient Temperature

Satisfactory

Sampling Start Date: 26/02/2024 Sampling End Date: 27/02/2024 Sample Receipt Date: 01/03/2024 01/03/2024-11/03/2024

Analysis start- End Date:

Total Sampling hours: 24 Env. Cond.-Testing:

Sr.No **Parameters** Results Unit Test Method NAAQ Standards 1 Particulate Matter (PM10) 66.23 IS 5182- Part 23 µg/m3 100 GGMPL/SOP/AA/60 Issue No.02

Particulate Matter (PM2.5) 32.91 µg/m3 60 August 01 3 Sulphur Dioxide (SO2) 10.82 µg/m3 IS 5182-Part 2 80 Nitrogen Dioxide (NO2) 18.54 µg/m3 IS 5182- Part 6 80 Ozone (O3) 11.77 µg/m3 IS 5182- Part 9 100 GGMPL/SOP/AA/62 Issue No.02 Ammonia (NH3) 17.24 µg/Nm3 400 August 01 Benzene BQL (QL=2.5) µg/m3 IS 5182- Part 11 5 8 Benzo(a) pyrene BQL (QL=0.5) Is 5182- Part 12 ng/m3 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

ng/m3

BQL (QL=1)

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

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USEPA Method IO 3.4

Page No: 1/2

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AHMEDABAD



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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2426C/93M/V4/07

Laboratory Representative

Ambient Air

Administrative Building Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

art- End Date: 01/03/2024-11/03/2024 bling hours: 24

25 ± 5 °C

26/02/2024

27/02/2024

01/03/2024

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

Analyzed By Jadav Vishal

End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2426C/93M/V4/08

Laboratory Representative

Ambient Air

Near Vertical Shaft-1 Ambient Temperature

Satisfactory

Sampling Start Date: 26/02/2024 Sampling End Date: 27/02/2024

Sample Receipt Date: Analysis start- End Date:

sis start- End Date: 01/03/2024-11/03/2024
Sampling hours: 24

Total Sampling hours: Env. Cond.-Testing:

25 ± 5 °C

01/03/2024

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

 ${\sf NS=Not\ Specified,\ BQL=Below\ Quantification\ Limit,QL=\ Quantification\ Limit}$

Analyzed By Jadav Vishal AHMEDABAD S

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Page No: 1/2

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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



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2426C/93M/V4/08 Laboratory Representative

Ambient Air

Near Vertical Shaft-1 Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

27/02/2024 01/03/2024

26/02/2024

01/03/2024-11/03/2024

25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	31
13 F	Relative Humidity	52	%	GGMPL/SOP/MP/01	NS
14 F	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 L	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16 V	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

End of Report ---

9 *

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2426C/93M/V4/09

Laboratory Representative

Ambient Temperature

Ambient Air Near DSU Plant

Satisfactory

Sampling Start Date: 26/02/2024 Sampling End Date: 27/02/2024

Sample Receipt Date: Analysis start- End Date:

Analysis start- End Date:

01/03/2024 01/03/2024-11/03/2024

Total Sampling hours: 24

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

Analyzed By Jadav Vishal

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2426C/93M/V4/09

Laboratory Representative

Ambient Air Near DSU Plant

Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

26/02/2024 27/02/2024

01/03/2024

01/03/2024-11/03/2024

24

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 Jaday Vishal

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2426C/93M/V4/10 Laboratory Representative Ambient Air

Near Compressor Room Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: 27/02/2024 01/03/2024 01/03/2024-1

26/02/2024

01/03/2024-11/03/2024 24

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

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

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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: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2426C/93M/V4/10 Laboratory Representative

Ambient Air

Near Compressor Room Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Total Sampling hours: Env. Cond.-Testing: 26/02/2024 27/02/2024 01/03/2024

01/03/2024-11/03/2024

24

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

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

Analyzed By Jadav Vishal

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 12/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

26/02/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2426C/9 3M/V4/11/01	Near Ventilation	Day Time	dB(A)Leq	IS 4758	63.6	-
2	Lab/PN/2426C/9 3M/V4/11/02	Near Vertical Shaft	Day Time	dB(A)Leq	IS 4758	66.2	
3	Lab/PN/2426C/9 3M/V4/11/03	Near DSU Plant	Day Time	dB(A)Leq	IS 4758	65.1	
4	Lab/PN/2426C/9 3M/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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 13/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2427C/93N/V4/01

Laboratory Representative

(GW) Mine Pit Water(Old Durga Pit Water) 4.7 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

26/02/2024 01/03/2024

02/03/2024 12/03/2024

GGMPL/WI/27A

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
					0.5-0.5	relaxation
2	Alkalinity as CaCO3	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	Ödour	Agreeable	- / -	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	29.63	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	260.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 13/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2427C/93N/V4/01

Sampling Date:

26/02/2024

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Receipt Date:

01/03/2024

Sample Description:

(GW) Mine Pit Water(Old Durga Pit Water)

Analysis Start Date: 02/03/2024 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

Analyzed By Kinjal Damor

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 13/03/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2427C/93N/V4/01 Laboratory Representative

(GW) Mine Pit Water(Old Durga Pit Water)

4.7 L Satisfactory Sampling Date:

26/02/2024 Sample Receipt Date: 01/03/2024 Analysis Start Date: 02/03/2024

Analysis End Date: Sampling Method:

12/03/2024 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

Kinjal Damor

End of Report -

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2427C/93N/V4/02

M/s Moil Limited

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

Reporting Date: 13/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2427C/93N/V4/02 Laboratory Representative

Ambient Air Near Old OCF Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

26/02/2024 26/02/2024 01/02/2024

02/03/2024-12/03/2024

24 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	GGMPL/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	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)	1.16	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

Analyzed By Kinjal Damor

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

M/s Moil Limited

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

Reporting Date: 13/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2427C/93N/V4/02

Laboratory Representative

Ambient Air Near Old OCF

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 26/02/2024 01/02/2024

26/02/2024

02/03/2024-12/03/2024

24 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

Analyzed By Kinjal Damor

--- End of Report --

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2427C/93N/V4/03

M/s Moil Limited

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

Reporting Date: 13/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

26/02/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2427C/9 3N/V4/03A	Near Old OCF	Day Time	dB(A)Leq	IS 4758	59.9	-

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

Analyzed By Kinjal Damor

End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2428C/93O/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:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/2428C/93O/V4 /01 Laboratory Representative

Water

Staff Colony Borewell (GW)

4.8 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

26/02/2024

01/03/2024 02/03/2024

09/03/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No						pecification:
31.140	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.12	-	IS 3025-Part 11	6.5-8.5	No
2	Alkalinity as CaCO3	135.00	mg/L	APHA 23rd Edn 2320 B	200	Relaxation 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	
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4		1000
6	Fluoride (F)	0.28	mg/L	APHA 23rd Edn 4500 F D	5	15
7	Magnesium as Mg	9.72			1.0	1.5
8	Odour		mg/L	APHA 23rd Edn 3500 Mg B	30	100
		Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	32.17	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	288.00	mg/L	APHA 23rd Edn 2540 C		2000
11	Total Hardness as CaCO3	172.00	mg/L	APHA 23rd Edn 2340 C		
12	Total Suspended Solids (TSS)	10.00		ADUA 22 LET 2512 5		600
			9/ -	AFTIA 23IU EUII 234U D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

AHMEDABAD

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Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2428C/93O/V4 /01

M/s Moil Limited

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

Lab/PN/2428C/93O/V4 /01

Laboratory Representative

Reporting Date: 11/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Staff Colony Borewell (GW) 4.8 L

Water

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

26/02/2024

01/03/2024 02/03/2024 09/03/2024 GGMPL/WI/27A

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

--- End of Report ---

AHMEDABAD

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2428C/93O/V4 /01A

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:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

4.8 L

Sample Condition:

Lab/PN/2428C/93O/V4 /01

Laboratory Representative Water

Staff Colony Borewell (GW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

26/02/2024

01/03/2024 02/03/2024 09/03/2024

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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Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2428C/93O/V4 /02

Laboratory Representative

Ambient Air

Near Staff Colony Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

26/02/2024 27/02/2024

01/03/2024 02/03/2024-09/03/2024

24 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

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2428C/93O/V4/02

M/s Moil Limited

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

Reporting Date: 11/03/2024



26/02/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2428C/93O/V4 /02

Laboratory Representative

Ambient Air

Near Staff Colony Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

27/02/2024 01/03/2024 02/03/2024-09/03/2024

24 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

End of Repo

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2428C/93O/V4 /03

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

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

26/02/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2428C/9 30/V4 /03A	Near Staff Colony	Day Time	dB(A)Leq	IS 4758	56.3	-
	30/V4 /03A	A RESERVE ME					

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

Analyzed By Nidhi Shah

End of Report

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Email Id: lab@gogreenmechanisms.com

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: Sample Type:

Laboratory Representative

Water

Sample Description: Sample Quantity:

VT Center Borewell (GW)

4.8 L Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

26/02/2024

01/03/2024

02/03/2024

08/03/2024

Sealed

Specification

6 11					5	pecification:
Sr.N	o Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.95	-	IS 3025-Part 11	6.5 to 8.5	No
2	Alkalinity as CaCO3	184.00	mg/L	APHA 23rd Edn 2320 B	200	Relaxation 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
9	Sulphate	50.09	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	385.00	mg/L	APHA 23rd Edn 2540 C	500	
11	Total Hardness as CaCO3	300.00	mg/L	APHA 23rd Edn 2340 C		2000
12	Total Suspended Solids (TSS)	6.00	mg/L		200	600
	(.55)	5.00	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

Authorized Signatory Manish Kumawat

Page No: 1/2

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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:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2429C/93P/V4/01 Laboratory Representative

Water

4.8 L

VT Center Borewell (GW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

GGMPL/WI/27A

26/02/2024

01/03/2024

02/03/2024

08/03/2024

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

--- End of Report ---

HAI

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CERTIFICATE OF ANALYSIS

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

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: Sample Condition: 4.8 L

Satisfactory

Sampling Date:

26/02/2024

Sample Receipt Date: Analysis Start Date:

01/03/2024 02/03/2024

Analysis End Date:

08/03/2024

Sampling Method: Packing:

GGMPL/WI/27A

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 Priyanka Shrimali

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2429C/93P/V4/02 Laboratory Representative Ambient Air Near VT Center Ambient Temperature

Satisfactory

Sampling Start Date: 26/02/2024 Sampling End Date: 27/02/2024 Sample Receipt Date: 01/03/2024

Analysis start- End Date: 02/03/2024-08/03/2024 Total Sampling hours: 24 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 CHAN

> Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 09/03/2024



TC 7072

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2429C/93P/V4/02

Laboratory Representative

Ambient Air Near VT Center

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 26/02/2024 27/02/2024

01/03/2024

02/03/2024-08/03/2024

24

ng: 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

--- End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

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

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

26/02/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2429C/9 3P/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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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 13/03/2024



26/02/2024

01/03/2024

02/03/2024

12/03/2024

GGMPL/WI/27A

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Quantity:

Sample Description:

Water

4.81

Sample Condition:

Lab/PN/2430C/93Q/V4/01

Laboratory Representative

G.W. of End Point of Railway Siding Borewell Analysis End Date:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Packing:

Sampling Method:

Sealed

						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.20		IS 3025-Part 11	6.5-8.5	No relaxatio
2	Alkalinity as CaCO3	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	Agreeabl	e Agreeabl
9	Sulphate	18.81	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	310.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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 Srcihandan

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2430C/93Q/V4/01

Laboratory Representative

G.W. of End Point of Railway Siding Borewell

Water 4.8L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

26/02/2024

01/03/2024 02/03/2024

12/03/2024

GGMPL/WI/27A 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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AHMEDABAT

Authorized Signatory

Manish Kumawat

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Water

Lab/PN/2430C/93Q/V4/01

Laboratory Representative Water

G.W. of End Point of Railway Siding Borewell

4.8L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

Sealed

26/02/2024

01/03/2024

02/03/2024

12/03/2024

Specification: Sr.No Parameters* Results Unit Test Method AL PI Total Coliform (MPN/100ml) Absent MPN/100ml IS 1622 Absent Absent 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 Dr. Haragobinda Srcihandan

End of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2430C/93Q/V4/02 Laboratory Representative

4.8L

Ground Water Near Weigh Bridge (Borewell Water)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

26/02/2024

01/03/2024

02/03/2024

12/03/2024

Sealed

10					S	pecification:
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 CaCO3	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 SO4 E	200	600
10	Total Dissolved Solids	308.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	150.00	mg/L	APHA 23rd Edn 2340 C		600

AL & PL as per IS 10500.

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

Analyzed By Dr. Haragobinda Srcihandan Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Lab/PN/2430C/93Q/V4/02

Reporting Date: 13/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Laboratory Representative Water

Ground Water Near Weigh Bridge (Borewell

Water) 4.8L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

12/03/2024 GGMPL/WI/27A

26/02/2024

01/03/2024

02/03/2024

Sealed

Specification:

						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
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	Relaxation
16	Nitrate	5.14	mg/L	APHA 23rd Edn 4500 NO3 B		0.3 No
			3, =	7 1 1 1 2 2 1 4 2 1 1 4 2 0 1 NO 3 B	45	Relaxation

AL & PL as per IS 10500.

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

Analyzed By Dr. Haragobinda Srcihandan CHAN

--- End of Report ---

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2430C/93Q/V4/02 Laboratory Representative

Ground Water Near Weigh Bridge (Borewell Water)

4.8L

Parameters*

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

Test Method

26/02/2024

01/03/2024 02/03/2024

12/03/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No Total Coliform (MPN/100ml)

Results

MPN/100ml IS 1622

Unit

Absent

Absent

PL

E.Coli (MPN/100ml)

Absent 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 Dr. Haragobinda Srcihandan

--- End of Report ---

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: 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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/2430C/93Q/V4/03 Laboratory Representative Ambient Air End Point of Railway Siding Ambient Temperature

Satisfactory

Sampling Start Date: 26/02/2024 Sampling End Date: 27/02/2024 Sample Receipt Date: 01/03/2024 Analysis start- End Date: 02/03/2024-12/03/2024

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters 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 Srcihandan

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/2430C/93Q/V4/03 Laboratory Representative Ambient Air End Point of Railway Siding Ambient Temperature Satisfactory

Sampling Start Date: 26/02/2024 Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours:

27/02/2024 01/03/2024 02/03/2024-12/03/2024

Env. Cond.-Testing: 25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	29	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	45	%	GGMPL/SOP/MP/01	NS
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS
	Temperature Relative Humidity Rainfall Lead	Temperature 29 Relative Humidity 45 Rainfall 0.0 Lead BQL (QL=0.001)	Temperature 29 °C Relative Humidity 45 % Rainfall 0.0 mm Lead BQL (QL=0.001) µg/m3	Temperature 29 °C GGMPL/SOP/MP/01 Relative Humidity 45 % GGMPL/SOP/MP/01 Rainfall 0.0 mm GGMPL/SOP/MP/01:2020 Lead BQL (QL=0.001) µg/m3 USEPA Method IO 3.4

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

Analyzed By Dr. Haragobinda Srcihandan Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By:

Env. Cond.-Sampling:

Sample Type: Sample Description:

Env. Cond.-Sample Receipt:

Lab/PN/2430C/93O/V4/04

Laboratory Representative

Ambient Air

Near Weigh Bridge Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

26/02/2024

27/02/2024 01/03/2024

02/03/2024-12/03/2024

24 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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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2430C/93Q/V4/04 Laboratory Representative

Ambient Air Near Weigh Bridge Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

26/02/2024 27/02/2024 01/03/2024

02/03/2024-12/03/2024

25±5°C

				NAAQ Standards
emperature	29	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	45	%	GGMPL/SOP/MP/01	NS
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
ead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
Vind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS
2	elative Humidity ainfall ead	elative Humidity 45 ainfall 0.0 ead BQL (QL=0.001)	elative Humidity 45 % ainfall 0.0 mm ead BQL (QL=0.001) µg/m3	elative Humidity 45 % GGMPL/SOP/MP/01 ainfall 0.0 mm GGMPL/SOP/MP/01:2020 ead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Analyzed By Dr. Haragobinda Srcihandan

- End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 13/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

26/02/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2430C/9 30/V4/05A	End Point of Railway Siding	Day Time	dB(A)Leq	IS 4758	67.9	-
2	Lab/PN/2430C/9 3Q/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 Dr. Haragobinda Srcihandan Authorized Signatory Manish Kumawat

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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



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:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

01/03/2024

04/03/2024

05/03/2024

14/03/2024

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 o 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

Analyzed By Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2467C/95U/V4/02

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/V4/02

Sampling Date:

01/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date: 04/03/2024 05/03/2024

Sample Type:

Water

4.5L

Analysis End Date:

14/03/2024

Sample Description:

GW Open Dugwell

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification: Sr.No Parameters Results Unit Test Method AL PL Alkalinity as CaCO3 205.00 APHA 23rd Edn 2320 B mg/L 200 600 1 Calcium as Ca 32.86 mg/L APHA 23rd Edn 3500 Ca B 75 200 Chloride 3 64.48 mg/L IS 3025- Part 32 250 1000 IS 3025- Part 4 Colour BQL (QL=1) CU 5 15 Fluoride 0.35 APHA 23rd Edn 4500 F D 5 mg/L 1.0 1.5 6 Magnesium as Mg 22.59 mg/L APHA 23rd Edn 3500 Mg B 30 100 Odour Agreeable IS 3025- Part 5 Agreeable Agreeable 8 pH at 25 °C 7.9 IS 3025- Part 11 6.5-8.5 Relaxation Sulphate 9 55.49 APHA 23rd Edn 4500 SO4 E 200 400 mg/L Total Dissolved Solids (TDS) 10 385.00 mg/L APHA 23rd Edn 2540 C 500 2000 Total Suspended Solids (TSS) 11.00 mg/L APHA 23rd Edn 2540 D NS NS 11

AL & PL as Per IS 10500

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

Analyzed By Priyanka Shrimali AHMEDABAD P

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2467C/95U/V4/02

M/s Moil Limited

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

Reporting Date: 15/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2467C/95U/V4/02

Sampling Date:

01/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

04/03/2024 05/03/2024

Sample Type: Sample Description: Water GW Open Dugwell

Analysis End Date:

14/03/2024

Sample Quantity:

4.5L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

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

Priyanka Shrimali

--- End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2467C/95U/V4/03

Laboratory Representative

Ambient Air Nr Mine Office

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Total Sampling hours:

04/03/2024 Analysis start- End Date:

Env. Cond.-Testing:

01/03/2024 02/03/2024

05/03/2024-14/03/2024

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

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: Sample Drawn By:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2467C/95U/V4/03

Laboratory Representative

Ambient Air Nr Mine Office

Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date:
Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 01/03/2024 02/03/2024 04/03/2024

05/03/2024-14/03/2024

:: 24 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

Analyzed By Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2467C/95U/V4/04

M/s Moil Limited

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

Reporting Date: 15/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2467C/95U/V4/04

Laboratory Representative

Ambient Air Waste Dump Area Ambient Temperature

Satisfactory

Sampling Start Date: 01/03/2024 Sampling End Date: 02/03/2024

Sample Receipt Date: Analysis start- End Date: Total Sampling hours:

04/03/2024 05/03/2024-14/03/2024

24 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

Analyzed By Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2467C/95U/V4/04

M/s Moil Limited

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

Reporting Date: 15/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.

Lab/PN/2467C/95U/V4/04

Laboratory Representative

Ambient Air

Waste Dump Area

Ambient Temperature

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

01/03/2024 02/03/2024

04/03/2024

05/03/2024-14/03/2024

dSample Receipt:	Satisfactory	Env. CondTesting:	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

Analyzed By Priyanka Shrimali

- End of Report ---

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 15/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2467C/95U/V4/05

Laboratory Representative Ambient Air Near Mine Pit

Ambient Temperature

Satisfactory

Sampling Start Date: 01/03/2024 Sampling End Date: 02/03/2024 Sample Receipt Date: 04/03/2024

Analysis start- End Date: 05/03/2024-14/03/2024

Total Sampling hours:

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

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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 15/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2467C/95U/V4/05

Laboratory Representative

Ambient Air Near Mine Pit

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Total Sampling hours:

Analysis start- End Date:

Env. Cond.-Testing:

02/03/2024 04/03/2024

01/03/2024

05/03/2024-14/03/2024

24 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

Analyzed By Priyanka Shrimali

End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2467C/95U/V4/06

M/s Moil Limited

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

Reporting Date: 15/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2467C/95U/V4/06

Laboratory Representative

Ambient Air

Main Road (Nr Khasra No 19)

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

01/03/2024

02/03/2024 04/03/2024

05/03/2024-14/03/2024

24

25±5°C

.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.10	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.66	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.48	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.05	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

Analyzed By Priyanka Shrimali Authorized Signatory Manish Kumawat

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2467C/95U/V4/06

M/s Moil Limited

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

Reporting Date: 15/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2467C/95U/V4/06

Laboratory Representative

Ambient Air

Main Road (Nr Khasra No 19)

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 01/03/2024

02/03/2024

04/03/2024

05/03/2024-14/03/2024

ours: 24

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

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

Analyzed By Priyanka Shrimali

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 15/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

01/03/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2467C/9 5U/V4/07A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	53.2	-
2	Lab/PN/2467C/9 5U/V4/07B	Waste Dump Area	Day Time	dB(A)Leq	IS 4758	60.9	
3	Lab/PN/2467C/9 5U/V4/07C	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	59.2	
4	1 ab/DN/2467C/0	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

--- End of Report ---

Authorized Signatory Manish Kumawat

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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)



SAMPLE DETAILS

Lab ID:

Lab/PN/2473C/97U/V4/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

GW of Open Dugwell

Sample Quantity: Sample Condition: 300 ml Satisfactory Sampling Date:

01/03/2024

02/03/2024

Sample Receipt Date: Analysis Start Date:

05/03/2024

Analysis End Date: Sampling Method:

09/03/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total o	coliform	Absent	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



--- End of Report ---

AHMEDAB

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Authorized Signatory Dr. Haragobinda Srcihandan

Page No: 1/1

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