

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/1975D/93M/01

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1975D/93M/01 Laboratory Representative Ambient Air

Near Administrative Building

Ambient Temperature Satisfactory Sampling Start Date: 16/09/2024 Sampling End Date: 17/09/2024 Sample Receipt Date: 18/09/2024

Analysis start- End Date:

19/09/2024-26/09/2024

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

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

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

Analyzed By Kinjal Damor AHMEDABAD PV

Authorized Signatory Gyanvati Shukla

Page No: 1/2

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Reporting Date: 27/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1975D/93M/01 Laboratory Representative

Ambient Air

Near Administrative Building

Ambient Temperature Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

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

25±5°C

16/09/2024

17/09/2024

18/09/2024

19/09/2024-26/09/2024

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

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

Analyzed By Kinjal Damor Gy

Authorized Signatory Gyanvati Shukla

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1975D/93M/02

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1975D/93M/02 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:

17/09/2024 18/09/2024

16/09/2024

19/09/2024-26/09/2024

24 25±5°C

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

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

Analyzed By Kinjal Damor

Authorized Signatory Gyanvati Shukla

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1975D/93M/02 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: 16/09/2024 17/09/2024 18/09/2024

19/09/2024-26/09/2024

24 25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	32	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	57	%	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	3.2	m/s	GGMPL/SOP/MP/01:2020	NS
	Temperature Relative Humidity Rainfall Lead	Temperature 32 Relative Humidity 57 Rainfall 0.0 Lead BQL (QL=0.001)	Temperature32°CRelative Humidity57%Rainfall0.0mmLeadBQL (QL=0.001)μg/m3	Temperature 32 °C GGMPL/SOP/MP/01 Relative Humidity 57 % 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 Kinjal Damor HMEDABAD Photography

Authorized Signatory Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1975D/93M/03

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt. Lab/PN/1975D/93M/03

Laboratory Representative Ambient Air Near DSU Plant Ambient Temperature

Salisfactory

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

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

16/09/2024 17/09/2024 18/09/2024

19/09/2024-26/09/2024

24

25±5°C

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

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

Analyzed By Kinjal Damor

Authorized Signatory Gyanvati Shukla

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: 27/09/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1975D/93M/03 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:

Total Sampling hours: 24 Env. Cond.-Testing: 25

16/09/2024 17/09/2024 18/09/2024

19/09/2024-26/09/2024

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	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor \$

Authorized Signatory Gyanvati Shukla

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1975D/93M/04 Laboratory Representative

Ambient Air

Near Compressor Room Ambient Temperature

Sampling End Date: Sample Receipt Date:

Satisfactory

Sampling Start Date:

Analysis start- End Date:

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

16/09/2024 17/09/2024

18/09/2024 19/09/2024-26/09/2024

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

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

Analyzed By Kinjal Damor

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M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-707

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1975D/93M/04 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: Env. Cond.-Testing: 16/09/2024 17/09/2024 18/09/2024

19/09/2024-26/09/2024

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	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor Authorized Signatory Gyanvati Shukla

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1975D/93M/05

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

16/09/2024

Sample Description:

Source Noise

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

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

Analyzed By Kinjal Damor

Authorized Signatory Gyanvati Shukla

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1975D/93M/06

Sampling Date:

17/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

18/09/2024

Sample Type:

Ground Water

Analysis Start Date:

19/09/2024 26/09/2024

Sample Description:

Administrative Building Borewell (GW)

Analysis End Date: Sampling Method:

Sample Quantity: Sample Condition:

Satisfactory

Packing:

GGMPL/WI/27A

Sealed

				example of the second	Sı	pecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	180.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	56.91	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	75.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0,31	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.31	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.23		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	20.26	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	296.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Kinjal Damor

Authorized Signatory Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1975D/93M/06

Sampling Date: Sample Receipt Date: 17/09/2024 18/09/2024

Sample Drawn By: Sample Type: Laboratory Representative Ground Water

Analysis Start Date:

19/09/2024

Sample Description:

Administrative Building Borewell (GW)

Analysis End Date:

26/09/2024

Sample Quantity:

3 L

Sampling Method:

GGMPL/WI/27A

Sample Condition: Satisfactory

Packing: Se

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	205.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.04	mg/L	APHA 23rd Edn 4500 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 AHMEDABAD OF STORY OF

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Authorized Signatory Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1975D/93M/07

Sampling Date:

17/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

18/09/2024

Sample Type:

Waste Water

Analysis Start Date:

19/09/2024

Sample Description:

pH at 25 °C

Oil and Grease

Dissolved Oxygen

Manganese

Mine Seapage Water Vertical Shaft (WW)

Results

7.89

12.00

48.00

4.30

11.11

BQL (QL=2)

BQL (QL=0.1)

Unit

mg/L

mg/L

mg/L

mg/L

mg/L

mg/L

Analysis End Date:

26/09/2024

Sample Quantity:

Sr.No

1

4

5

3.5 L

Sampling Method:

GGMPL/WI/27A Sealed

Sample Condition: Satisfactory

Total Suspended Solids

Chemical Oxygen Demand

BOD at 27 o C for 3 days

Parameters

Packing:

IS 3025- Part 44

GGMPL/SOP/W & WW/46

Test Method Norm IS 3025- Part 11 APHA 23rd Edn 2540 D IS 3025- Part 39 APHA 23rd Edn 5220 B IS 3025- Part 38

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

Analyzed By Kinjal Damor End of Report -

Authorized Signatory Gyanvati Shukla

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1975D/93M/08

Sampling Date:

17/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

18/09/2024 19/09/2024

Sample Type: Sample Description: Waste Water ETP Inlet (WW) Analysis Start Date: Analysis End Date:

26/09/2024

Sample Quantity:

5 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

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

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

Analyzed By Kinjal Damor AHMEDABAD OF A COLUMN AND A COL

Authorized Signatory Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1975D/93M/09

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/1975D/93M/09

Sampling Date:

17/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

18/09/2024

Sample Type:

Waste Water

Analysis Start Date:

19/09/2024 26/09/2024

Sample Description:

ETP Outlet (WW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 5 L Satisfactory

Packing:

Sealed

r.No	Parameters	Results	Unit	Test Method	Norm
1 p	oH at 25 °C	7.58	-	IS 3025- Part 11	5.5 to 9.0
2 T	otal Suspended Solids	37.00	mg/L	APHA 23rd Edn 2540 D	100
3 0	Dil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4 C	Chemical Oxygen Demand	52.00	mg/L	APHA 23rd Edn 5220 B	250
5 D	Dissolved Oxygen	3.70	mg/L	IS 3025- Part 38	NS
6 B	OD at 27 o C for 3 days	13	mg/L	IS 3025- Part 44	30
7 M	1anganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms As Per CTO.

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

Kinjal Damor

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Authorized Signatory Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1975D/93M/10
Sample Drawn By: Laboratory Representative

Sample Type: Waste Water
Sample Description: STP Inlet (WW)

Sample Quantity: 5 L

Sample Condition: Satisfactory

Sampling Date: 17/09/2024 Sample Receipt Date: 18/09/2024

Analysis Start Date: 19/09/2024 Analysis End Date: 26/09/2024

Sampling Method: GGMPL/WI/27A

Packing: Sealed

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

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

Analyzed By Kinjal Damor AHMEDABAD PV

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Authorized Signatory Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1975D/93M/11

Laboratory Representative Waste Water

Sample Type: Sample Description: STP Outlet(WW)

Sample Quantity: Sample Condition: 5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

Sealed

17/09/2024

18/09/2024

19/09/2024

26/09/2024

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

Norms As Per CTO.

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

Kinjal Damor

End of Rep

Authorized Signatory Gyanvati Shukla

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 25/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1976D/93M/01

17/09/2024

Sample Drawn By:

Laboratory Representative

18/09/2024

Sample Type:

Ground Water

Sample Receipt Date: Analysis Start Date: 18/09/2024 Analysis End Date:

Sample Description: Sample Quantity:

Administrative Building (Borewell) (GW)

25/09/2024

Sample Condition:

500 ml Satisfactory Sampling Method:

Sampling Date:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

Find of Report

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 25/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1977D/93N/01

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:

16/09/2024

17/09/2024 18/09/2024

18/09/2024-24/09/2024

25±5°C

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

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

Analyzed By Priyanka Shrimali Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 25/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1977D/93N/01

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.-Testina:

16/09/2024 17/09/2024 18/09/2024

18/09/2024-24/09/2024

25±5°C

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

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 25/09/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

16/09/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1977D/9 3N/02A	Near Old OCF	Day Time	dB(A)Leq	IS 4758	59.1	41

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/1977D/93N/03

M/s Moil Limited

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

Reporting Date: 25/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/1977D/93N/03

Sampling Date:

17/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

18/09/2024 18/09/2024

Sample Type: Sample Description:

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

Satisfactory

Analysis End Date:

24/09/2024

Sample Quantity: Sample Condition:

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

					Scarca	
						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	120.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	29.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.55	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeab	le Agreeabl
8	pH at 25 °C	7.42	_	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	40.62	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	250.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 25/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1977D/93N/03

Sampling Date:

17/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

18/09/2024

Sample Type:

Water

Analysis Start Date:

18/09/2024

Sample Description:

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

Analysis End Date:

24/09/2024

Sample Quantity:

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

						lead whether the best artists of the
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	170.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.81	mg/L	APHA 23rd Edn 4500 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 ---

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Authorized Signatory Manish Kumawat

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1979D/93O/01

M/s Moil Limited

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

Reporting Date: 25/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1979D/93O/01

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:

Env. Cond.-Testing:

16/09/2024

16/09/2024 18/09/2024

18/09/2024-24/09/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.96	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.07	µg/m3	GGMPL/SOP/AA/G0 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.03	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.73	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.33	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1979D/93O/01

M/s Moil Limited

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

Reporting Date: 25/09/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1979D/93O/01 Laboratory Representative Ambient Air

Near Staff Colony Ambient Temperature

Satisfactory

Sampling Start Date: 16/09/2024 Sampling End Date: 16/09/2024 Sample Receipt Date: 18/09/2024

Analysis start- End Date: 18/09/2024-24/09/2024
Total Sampling hours: 24

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

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

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

Analyzed By Priyanka Shrimali

--- End of Report ---

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Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1979D/93O/03

M/s Moil Limited

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

Reporting Date: 25/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1979D/93O/03

Sampling Date:

17/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

18/09/2024

Sample Type:

Water

Analysis Start Date:

18/09/2024 24/09/2024

Sample Description:

Staff Colony Borewell (GW)

Analysis End Date:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Sampling Method: Packing:

Sealed

Specification

					Sp	ecification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	112.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	34.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	42.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.85	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.65	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.42	5	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.89	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	250.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1979D/93O/03

M/s Moil Limited

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

Reporting Date: 25/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/1979D/93O/03

Sampling Date:

17/09/2024

Sample Drawn By: Sample Type: Laboratory Representative

Sample Receipt Date: Analysis Start Date: 18/09/2024 18/09/2024

Sample Description:

Water Staff Colony Borewell (GW)

Analysis End Date:

24/09/2024

Sample Quantity: Sample Condition: 3 L

Satisfactory

Sampling Method: Packing: GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	170.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.73	mg/L	APHA 23rd Edn 4500 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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Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1979D/93O/02

M/s Moil Limited

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

Reporting Date: 25/09/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

16/09/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1979D/9 30/02A	Near Staff Colony	Day Time	dB(A)Leq	IS 4758	54.5	

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

Analyzed By Priyanka Shrimali *

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1981D/93P/01

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:

17/09/2024 18/09/2024

16/09/2024

18/09/2024-26/09/2024

24

Env. Cond.-Testing: 25±5°C

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

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

Analyzed By Khushbu Suthar Authorized Signatory Manish Kumawat

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M/s Moil Limited

Mansar Manganese Mines (M.S.) L4-0,94 Ha Tah-Ramtek Dist. Nagpur (M.S)

Reporting Date: 27/09/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond -Sample Receipt:

Lab/PN/1981D/93P/01 Laboratory Representative Ambient Air Near VT Center

Ambient Temperature Satisfactory

Sampling Start Date: 16/09/2024 Sampling End Date: 17/09/2024 Sample Receipt Date: 18/09/2024 18/09/2024-26/09/2024

Analysis start- End Date: Total Sampling hours: 24

25+5°C Env. Cond.-Testing:

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	96	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

16/09/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1981D/9 3P/02A	Near VT Center	Day Time	dB(A)Leq	IS 4758	58.6	ngi m

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

> Analyzed By Khushbu Suthar

> > --- End of Report ---

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Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 26/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1983D/93Q/01 Laboratory Representative

Ambient Air

End Point of Railway Siding Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

18/09/2024-25/09/2024 24

16/09/2024

17/09/2024

18/09/2024

Env. Cond.-Testing: 25 ± 5 °C

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

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

Analyzed By Khushbu Suthar Authorized Signatory Manish Kumawat

Page No: 1/2



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

M/s Moil Limited

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

Reporting Date: 26/09/2024



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1983D/93Q/01 Laboratory Representative Ambient Air End Point of Railway Siding

Ambient Temperature Satisfactory

Sampling Start Date: 16/09/2024 Sampling End Date: 17/09/2024 Sample Receipt Date: 18/09/2024

Analysis start- End Date:

18/09/2024-25/09/2024

Total Sampling hours: Env. Cond.-Testing:

25 ± 5 °C

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

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

Analyzed By Khushbu Suthar

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Authorized Signatory Manish Kumawat

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

M/s Moil Limited

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

Reporting Date: 26/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1983D/93Q/02

Laboratory Representative Ambient Air

Nr Weigh Bridge Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

16/09/2024

17/09/2024 18/09/2024

18/09/2024-25/09/2024

24

25 ± 5 °C

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

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

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

M/s Moil Limited

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

Reporting Date: 26/09/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1983D/93Q/02 Laboratory Representative

Ambient Air Nr Weigh Bridge Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date:

Sample Receipt Date: Analysis start- End Date: Total Sampling hours: 16/09/2024 17/09/2024 18/09/2024

18/09/2024-25/09/2024

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

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

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

Analyzed By Khushbu Suthar

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 26/09/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

16/09/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1983D/9 3Q/03A	End point of Railway Siding	Day Time	dB(A)Leq	IS 4758	63.1	-
2	Lab/PN/1983D/9 3Q/03A	Near Weigh Bridge	Day Time	dB(A)Leq	IS 4758	68.6	

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

Analyzed By Khushbu Suthar

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 26/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1983D/93Q/04

Sampling Date:

17/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

18/09/2024 18/09/2024

Sample Type:

Ground Water

Analysis Start Date: Analysis End Date:

25/09/2024

Sample Description:

End Point of Railway Siding (GW)

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

3 L

Packing:

Sealed

Specification:

					ارد	Decincation.
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	188.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	44.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	39.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.78	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.27	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.58		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.56	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	326.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	7.0	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Khushbu Suthar 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/1983D/93Q/04

M/s Moil Limited

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

Reporting Date: 26/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1983D/93Q/04

Sampling Date:

17/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

18/09/2024

Sample Type:

Ground Water

Analysis Start Date: Analysis End Date: 18/09/2024 25/09/2024

Sample Description:

End Point of Railway Siding (GW)

1W 1090

Sample Quantity: Sample Condition: 3 L

Sampling Method: Packing: GGMPL/WI/27A Sealed

Satisfactory Pack

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	216.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.35	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

Analyzed By Khushbu Suthar

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 26/09/2024

TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1983D/93Q/05

Sampling Date:

17/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

18/09/2024

Sample Type:

Ground Water

Analysis Start Date:

18/09/2024 25/09/2024

Sample Description:

Nr Weight Bridge (GW)

Analysis End Date: Sampling Method:

GGMPI /WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

					2	pecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	167.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	38.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.55	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.41	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.69		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.66	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	298.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Khushbu Suthar



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 26/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/1983D/93Q/05

Laboratory Representative Ground Water

Nr Weight Bridge (GW)

3 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

17/09/2024

18/09/2024 18/09/2024

25/09/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	186.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.14	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

Analyzed By Khushbu Suthar

--- End of Report ---

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2029D/95U/01

Laboratory Representative

Ambient Air Near Mine Office

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

25±5°C

19/09/2024

20/09/2024

21/09/2024

21/09/2024-27/09/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standard
1	Particulate Matter (PM10)	57.88	µу/ш3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.32	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.96	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.93	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.33	μg/m3	IS 5182- Part 9	180
6	Λmmonia (NH3)	11.39	µд/т3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µд/т3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2029D/95U/01

Laboratory Representative Ambient Air Near Mine Office

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

21/09/2024 21/09/2024-27/09/2024

19/09/2024

20/09/2024

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	62	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2029D/95U/02

Laboratory Representative Ambient Air

Waste Dump Side Ambient Temperature

Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing: 19/09/2024 20/09/2024 21/09/2024

21/09/2024-27/09/2024

24 25±5°C

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

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

Analyzed By Priyanka Shrimali AHMEDABAD P

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/09/2024



SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2029D/95U/02

Laboratory Representative Ambient Air

Waste Dump Side Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 19/09/2024

20/09/2024 21/09/2024

21/09/2024-27/09/2024

24 25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
l emperature	30	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	61	%	GGMPL/SOP/MP/01	NS
Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS
	emperature Relative Humidity Rainfall Lead	Relative Humidity 61 Rainfall 0 BQL (QL=0.001)	Relative Humidity 61 % Rainfall 0 mm Lead BQL (QL=0.001) μg/m3	emperature 30 °C GGMPL/SOP/MP/01 Relative Humidity 61 % GGMPL/SOP/MP/01 Rainfall 0 mm GGMPL/SOP/MP/01:2020 BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Analyzed By Priyanka Shrimali 出(AHMEDABAD)

--- End of Report ---

Authorized Signatory Payal Patel

P.B-Por

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2029D/95U/03

Laboratory Representative

Ambient Air Near Mine Pit

Ambient Temperature Satisfactory Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing: 19/09/2024 20/09/2024 21/09/2024

21/09/2024-27/09/2024

24 25±5°C

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

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

Analyzed By Priyanka Shrimali

Authorized Signatory Payal Patel

p. B. R.

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/09/2024



SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2029D/95U/03 Laboratory Representative

Ambient Air Near Mine Pit

Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 19/09/2024 20/09/2024 21/09/2024

21/09/2024-27/09/2024

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	62	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

Analyzed By Priyanka Shrimali

--- End of Report ---

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2029D/95U/04

Laboratory Representative

Ambient Air

Mine Road (Near 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: 19/09/2024 20/09/2024 21/09/2024

21/09/2024-27/09/2024

25±5°C

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

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

Analyzed By Priyanka Shrimali Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/09/2024



19/09/2024

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2029D/95U/04 Laboratory Representative Ambient Air Mine Road (Near Khasra No.19) Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date:

nd Date: 20/09/2024 eipt Date: 21/09/2024 rt- End Date: 21/09/2024-27/09/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
17	Relative Humidity	15	9%	CCML/EOL/MI/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/09/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

19/09/2024

Source Noise

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

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

Analyzed By Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/09/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2029D/95U/06

Sample Drawn By: Sample Type: Laboratory Representative

Waste Water

Sample Description:

Mine pit Water (WW)

Sample Quantity: 5

5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

20/09/2024 21/09/2024

21/09/2024 27/09/2024 GGMPL/WI/27A

Sealed

ractory	Packing:	Sealed		

Sr.No	Parameters	Results	Unit	Test Method	Norm
1 pH	at 25 °C	7.04	-	IS 3025- Part 11	
2 Tot	al Suspended Solids	22,00	mg/L	APHA 23rd Edn 2540 D	
3 Oil	and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	**
4 Che	emical Oxygen Demand	104.00	mg/L	APHA 23rd Edn 5220 B	
5 Dis	solved Oxygen	4.40	mg/L	IS 3025- Part 38	-
6 BO	O at 27 o C for 3 days	30.00	mg/L	IS 3025- Part 44	
7 Mai	nganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

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/2029D/95U/07

M/s Moil Limited

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

Reporting Date: 28/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2029D/95U/07

Sampling Date:

20/09/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

21/09/2024

Sample Type:

Water

Analysis Start Date: Analysis End Date:

21/09/2024 27/09/2024

Sample Description:

Open Dugwell (GW)

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

ampie	condition. Satisfactor	,		racking.	Sealed	
			EFET F			Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	66.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.45	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	31.59	mg/L	APHA 23rd Edn 3500 Mg E	3 30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeab	le Agreeabl
8	pH at 25 °C	7.85		IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	56.52	mg/L	APHA 23rd Edn 4500 SO4	E 200	400
10	Total Dissolved Solids (TDS)	330.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/09/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/2029D/95U/07

Laboratory Representative

Sample Description:

Open Dugwell (GW)

Sample Quantity: Sample Condition: 5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

27/09/2024 GGMPL/WI/27A

20/09/2024

21/09/2024

21/09/2024

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	l otal Hardness as CaCO3	220.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.22	mg/L	APHA 23rd Edn 4500 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 ---

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/09/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2030D/95U/01

Laboratory Representative Ground Water

Sample Type: Sample Description:

Sample Drawn By:

Open Dug well (GW)

Sample Quantity: Sample Condition: 500 ml

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

20/09/2024

21/09/2024

21/09/2024

27/09/2024

Sealed

Specification:

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

AL & PL as per IS 10500.

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





Authorized Signatory Dr. Haragobinda Srichandan

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