

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/1807C/93M/01/V3/01

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93M/01/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity:

Administrative Building (Borewell) (GW)

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

11/12/2023

14/12/2023 14/12/2023

26/12/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.32	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO3	170.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	50.50	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	82.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.69	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	21.38	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	26.48	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	344.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	214.00	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

AL & PL As Per IS 10500.

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



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Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1807C/93M/01/V3/01

Laboratory Representative

Water

Sample Type: Sample Description:

Administrative Building (Borewell) (GW)

Sample Quantity:

5 L

Sample Condition:

Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

11/12/2023

14/12/2023 14/12/2023 26/12/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.96	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	1.56	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

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M/s Moil Limited

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

Reporting Date: 27/12/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93M/01/V3/01

Sample Drawn By:

Sample Type:

Water

Sample Description:

Sample Quantity:

Sample Condition:

Laboratory Representative

Administrative Building (Borewell) (GW)

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

11/12/2023

14/12/2023 14/12/2023

26/12/2023 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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/02

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/1807C/93M/01/V3/02

Laboratory Representative Waste Water

Mine Seapge water (Vertical Shaft) (WW)

Satisfactory

Sampling Date:

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

Sampling Method:

Packing:

11/12/2023

14/12/2023 14/12/2023 26/12/2023

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.22	-	IS 3025- Part 11	-
2	Total Suspended Solids	24.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.1	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	22.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.23	mg/L	APHA 23rd Edn 3120 B	-

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

Ritu Shah

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Report Number: GGMPL/PN/1807C/93M/01/V3/03

M/s Moil Limited

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

Reporting Date: 27/12/2023



TC-7073

11/12/2023

14/12/2023

14/12/2023

26/12/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93M/01/V3/03

Sample Drawn By:

Laboratory Representative

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

Sample Quantity:

61

Sample Condition:

Satisfactory

Sampling Date:

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

Sampling Method: Packing:

ethod: GGMPL/WI/27A

g: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.71	-	IS 3025- Part 11	-
2	Total Suspended Solids	48.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	340.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	108	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.12	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By Ritu Shah

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M/s Moil Limited

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

Reporting Date: 27/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93M/01/V3/04

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Waste Water ETP Outlet (WW)

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

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

Sampling Method:

Sealed

Packing:

11/12/2023

14/12/2023

14/12/2023

26/12/2023

GGMPL/WI/27A

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.34	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	32.00	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	90.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	3.90	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	28	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.10	mg/L	APHA 23rd Edn 3120 B	NS

Norms as per CCA.

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

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M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93M/01/V3/05

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Waste Water STP Inlet

Sample Quantity: Sample Condition: 4.5 L

Satisfactory

Sampling Date:

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

Sampling Method:

Packing:

11/12/2023

14/12/2023 14/12/2023 26/12/2023

GGMPL/WI/27A Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm	
1	pH at 25 °C	6.78	-	IS 3025- Part 11	-	
2	Total Suspended Solids	50.00	mg/L	APHA 23rd Edn 2540 D		
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-	
4	Chemical Oxygen Demand	105.00	mg/L	APHA 23rd Edn 5220 B		
5	Dissolved Oxygen	2.60	mg/L	IS 3025- Part 38	-	
6	BOD at 27 o C for 3 days	38	mg/L	IS 3025- Part 44		
7	Manganese as Mn	0.164	mg/L	APHA 23rd Edn 3120 B	-	

Norms as per CCA.

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

Ritu Shah

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Page No: 1/1

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M/s Moil Limited

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

Reporting Date: 27/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93M/01/V3/06

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:

11/12/2023

14/12/2023 14/12/2023

26/12/2023

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.21	-	IS 3025- Part 11	NS
2	Total Suspended Solids	24.00	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	70.00	mg/L	APHA 23rd Edn 5220 B	100
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	24	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	NS

Norms as per CCA.

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

End of Report

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Report Number: GGMPL/PN/1807C/93M/01/V3/07

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

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

Lab/PN/1807C/93M/01/V3/07 Laboratory Representative Ambient Air Administrative Building Ambient Temperature Sampling Start Date: 11/12/2023
Sampling End Date: 12/12/2023
Sample Receipt Date: 14/12/2023
Analysis start- End Date: 14/12/2023

14/12/2023 14/12/2023-26/12/2023

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Ambient Temperature Total Sampling hours: 24
Satisfactory Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.93	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.10	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.10	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.27	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)	1.01	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 Ritu Shah Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/07

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1807C/93M/01/V3/07 Laboratory Representative Ambient Air

Administrative Building **Ambient Temperature** Satisfactory

Sampling Start Date: 11/12/2023 Sampling End Date: 12/12/2023 Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

14/12/2023 14/12/2023-26/12/2023

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	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	2.7	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/08

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

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

Lab/PN/1807C/93M/01/V3/08 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: 11/12/2023 12/12/2023 14/12/2023

14/12/2023-26/12/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.51	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)	12.15	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.42	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.25	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.27	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)	1.04	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 Ritu Shah Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/08

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1807C/93M/01/V3/08 Laboratory Representative Ambient Air Near Vertical Shaft-1

Ambient Temperature Satisfactory

Sampling Start Date: 11/12/2023 Sampling End Date: 12/12/2023 Sample Receipt Date: 14/12/2023

Analysis start- End Date: Total Sampling hours: 24 Env. Cond.-Testing:

14/12/2023-26/12/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	62	%	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	2.7	m/s	GGMPL/SOP/MP/01:2020	NS
10	Willia Speed	2.17	,0		

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

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09 * End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/09

M/s Moil Limited

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

Reporting Date: 27/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:
Sample Drawn By:
Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1807C/93M/01/V3/09 Laboratory Representative

Ambient Air Near DSU Plant Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

nd Date: 14/12/2023-26/12/2023 nours: 24

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

24	
25±5°C	

11/12/2023

12/12/2023

14/12/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.95	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.36	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.47	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.95	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	18.05	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)	1.04	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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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/09

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

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

Lab/PN/1807C/93M/01/V3/09 Laboratory Representative Ambient Air Near DSU Plant Ambient Temperature Satisfactory

 Sampling Start Date:
 11/12/2023

 Sampling End Date:
 12/12/2023

 Sample Receipt Date:
 14/12/2023

 Analysis start- End Date:
 14/12/2023-26/12/2023

 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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.7	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Ritu Shah

--- End of Report ---

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/10

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1807C/93M/01/V3/10

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:

Env. Cond.-Testing:

11/12/2023

12/12/2023 14/12/2023

14/12/2023-26/12/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.70	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)	8.22	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.86	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.8	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.72	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)	1.04	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

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Analyzed By

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93M/01/V3/10

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1807C/93M/01/V3/10 Laboratory Representative Ambient Air Near Compressor Room Ambient Temperature Satisfactory

 Sampling Start Date:
 11/12/2023

 Sampling End Date:
 12/12/2023

 Sample Receipt Date:
 14/12/2023

 Analysis start- End Date:
 14/12/2023-26/12/2023

 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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	61	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.7	m/s	GGMPL/SOP/MP/01:2020	NS
13	willia opeca	2.7	/5	33. 11 2/33. / 1. 1. / 01/2020	1.0

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

Analyzed By Ritu Shah

--- End of Report ---

CHAN

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Page No: 2/2

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Report Number: GGMPL/PN/1807C/93M/01/V3/11

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

11/12/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1807C/9 3M/01/V3/11A	Near Ventilation Fan	Day Time	dB(A)Leq	IS 4758	61.6	-
2	Lab/PN/1807C/9 3M/01/V3/11B	Near Vertical Shaft-1	Day Time	dB(A)Leq	IS 4758	64.6	-
3	Lab/PN/1807C/9 3M/01/V3/11C	Near DSU Plant	Day Time	dB(A)Leq	IS 4758	63.2	-
4	Lab/PN/1807C/9 3M/01/V3/11D	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	65.1	-

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

--- End of Report ---

AHMEDABAD

Authorized Signatory Payal Patel

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93N/02/V3/01

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93N/02/V3/01

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description: Sample Quantity: Mine Pit Water(Old Durga Pit Water) (GW)

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

26/12/2023 GGMPL/WI/27A

Sealed

11/12/2023

14/12/2023

15/12/2023

Specification:

				t and the second		
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.42	-	IS 3025-Part 11	6.5To 8.5	No Relaxation
2	Alkalinity as CaCO3	168.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	41.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	53.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.32	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	21.38	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	24.13	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	191.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	8.00	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

Mispay)

Analyzed By Aarmi Patel AHMEDABAD P

Authorized Signatory Manish Kumawat

Page No: 1/2

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Report Number: GGMPL/PN/1807C/93N/02/V3/01

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/1807C/93N/02/V3/01

Laboratory Representative

Sample Description: Sample Quantity:

3.5L

Sample Condition:

Water

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

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

14/12/2023 15/12/2023 26/12/2023

11/12/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13 Turb	idity	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 Man	ganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16 Nitra	ite	1.81	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 Aarmi Patel

9 * End of Report --- Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93N/02/V3/01A

M/s Moil Limited

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

Reporting Date: 27/12/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93N/02/V3/01

Sample Drawn By: Sample Type: Laboratory Representative

Water

Sample Description:

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

Sample Quantity: 3

Sample Condition:

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

Method:

11/12/2023

14/12/2023 15/12/2023

26/12/2023 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 Aarmi Patel

--- End of Report ---

AHMEDABAD

Authorized Signatory Manish Kumawat

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M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1807C/93N/02/V3/02

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:

11/12/2023 12/12/2023

14/12/2023 15/12/2023-26/12/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.60	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.16	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.89	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.69	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.95	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.72	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

Aarmi Patel

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M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1807C/93N/02/V3/02 Laboratory Representative

Ambient Air Near Old OCF

Ambient Temperature Satisfactory

Sampling Start Date: 11/12/2023 Sampling End Date: 12/12/2023 Sample Receipt Date: 14/12/2023

Analysis start- End Date:

15/12/2023-26/12/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°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	3.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel

End of Report --

Authorized Signatory Aarmi Patel

Page No: 2/2

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M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

11/12/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1807C/9 3N/02/V3/03A	Near Old OCF	Day Time	dB(A)Leq	IS 4758	61.1	-
	311/02/13/03/1						

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

Analyzed By Aarmi Patel

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Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/1807C/93O/03/V3/01

M/s Moil Limited

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

Reporting Date: 27/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93O/03/V3/01

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Sample Condition:

Staff Colony Borewell (GW)

Sample Quantity:

3.5L

Satisfactory

Sampling Date:

11/12/2023

Sample Receipt Date: Analysis Start Date: 14/12/2023 15/12/2023

Analysis End Date:

26/12/2023 GGMPL/WI/27A

Sampling Method: Packing:

Sealed

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.53	12,	IS 3025-Part 11	6.5To 8.5	No Relaxation
2	Alkalinity as CaCO3	144.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	35.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	50.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.19	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	18.47	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	28.25	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	245.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	164.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL& PL As Per IS 10500.

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

Analyzed By Aarmi Patel AHMEDABAD PV

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M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93O/03/V3/01

Sampling Date:

11/12/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/12/2023 15/12/2023

Sample Type:

Water

Analysis Start Date:

26/12/2023

Sample Description:

Staff Colony Borewell (GW)

Satisfactory

Analysis End Date:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5L

Sampling Method:

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.66	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 Aarmi Patel

-- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93O/03/V3/01A

M/s Moil Limited

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

Reporting Date: 27/12/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93O/03/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Staff Colony Borewell (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

11/12/2023

Sample Receipt Date:

14/12/2023

Analysis Start Date:

15/12/2023

Analysis End Date: Sampling Method:

26/12/2023 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

Analyzed By Aarmi Patel

End of Report -

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93O/03/V3/02

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1807C/93O/03/V3/02 Laboratory Representative

Ambient Air Near Staff Colony Ambient Temperature

Satisfactory

Sampling Start Date: 11/12/2023 Sampling End Date: 12/12/2023 Sample Receipt Date: 14/12/2023

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 14/12/2023 15/12/2023-26/12/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.24	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.08	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.65	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.46	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.10	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.33	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)	1.13	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

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

Analyzed By Aarmi Patel AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93O/03/V3/02

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID: Sample Drawn B

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1807C/93O/03/V3/02

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: Env. Cond.-Testing: 11/12/2023 12/12/2023 14/12/2023

15/12/2023-26/12/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall		mm	GGMPL/SOP/MP/01:2020	
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93O/03/V3/03

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

11/12/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1807C/9 30/03/V3/03A	Near Staff Colony	Day Time	dB(A)Leq	IS 4758	58.8	-
	50,00,10,00,1						

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

Analyzed By Aarmi Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93P/04/V3/01

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93P/04/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity:

Sample Condition:

VT Center Borewell (GW)

3.5 L Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

11/12/2023

14/12/2023 15/12/2023

26/12/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	parameters Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.53	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	152.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	48.90	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	52.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.42	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	29.65	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	- 1	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	19.03	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	294.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	244.00	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

AL & PL as per IS 10500

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

Analyzed By Sachi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93P/04/V3/01

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1807C/93P/04/V3/01

Laboratory Representative Water

Sample Type: Sample Description:

VT Center Borewell (GW)

Sample Quantity: Sample Condition: 3.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

15/12/2023 26/12/2023 GGMPL/WI/27A

11/12/2023

14/12/2023

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	2.87	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

Sachi Patel

--- End of Report ---

C.HAN

AHMEDABAD

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93P/04/V3/01A

M/s Moil Limited

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

Reporting Date: 27/12/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93P/04/V3/01

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

VT Center Borewell (GW)

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

11/12/2023 14/12/2023

Analysis Start Date:

15/12/2023

Analysis End Date:

26/12/2023

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500

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

Sachi Patel

:HAN nd of Report

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93P/04/V3/02

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

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

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

Lab/PN/1807C/93P/04/V3/02

Laboratory Representative Ambient Air Near VT Center Ambient Temperature

Satisfactory

Sampling Start Date: 11/12/2023 Sampling End Date: 12/12/2023 Sample Receipt Date: 14/12/2023

Analysis start- End Date: 15/ Total Sampling hours: 24

15/12/2023-26/12/2023

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.29	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.91	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.21	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.86	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.79	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.56	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)	1.03	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 Sachi Patel HAHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93P/04/V3/02

M/s Moil Limited

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

Reporting Date: 27/12/2023



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/1807C/93P/04/V3/02

Laboratory Representative Ambient Air Near VT Center

Ambient Temperature Satisfactory Sampling Start Date: 11/12/2023 Sampling End Date: 12/12/2023

Sample Receipt Date: Analysis start- End Date:

14/12/2023 15/12/2023-26/12/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°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	2.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

--- End of Report --

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93P/04/V3/03

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

11/12/2023

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1807C/9 3P/04/V3/03	Nr. VT Center	Day Time	dB(A)Leq	IS 4758	53.2	-
	31 /04/ \$3/03						

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

Analyzed By

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93Q/05/V3/01

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93Q/05/V3/01

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description: Sample Quantity:

Railway Siding (Borewell Water) (GW)

3.5 L

Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

11/12/2023

14/12/2023

15/12/2023

26/12/2023

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.64	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	146.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	46.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	52.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.39	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	18.15	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	288.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	196.00	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

AL & PL as per IS 10500

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

Analyzed By

Sachi Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93Q/05/V3/01

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/1807C/93Q/05/V3/01

Laboratory Representative

Water

Sample Description: Sample Quantity:

Sample Condition:

Railway Siding (Borewell Water) (GW)

Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

11/12/2023

14/12/2023 15/12/2023 26/12/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.8	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	3.28	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 Sachi Patel

Sach

End of Report --

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93Q/05/V3/01A

M/s Moil Limited

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

Reporting Date: 27/12/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93Q/05/V3/01

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Railway Siding (Borewell Water) (GW)

Sample Quantity:

3.5 L

Satisfactory

Sample Condition:

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

GGMPL/WI/27A

Sealed

11/12/2023

14/12/2023

15/12/2023

26/12/2023

Packing:

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 Sachi Patel

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Page No: 1/1

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Report Number: GGMPL/PN/1807C/93Q/05/V3/02

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93Q/05/V3/02

Sampling Date:

11/12/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

14/12/2023

Sample Type:

Analysis Start Date:

15/12/2023

Sample Description:

Weigh Bridge (Borewell Water) (GW)

Analysis End Date: Sampling Method:

26/12/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5 L Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.36	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	161.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	48.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	57.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.64	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	26.73	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	20.11	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	327.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	230.00	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

Analyzed By Sachi Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93Q/05/V3/02

M/s Moil Limited

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

Reporting Date: 27/12/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93Q/05/V3/02 Laboratory Representative

Weigh Bridge (Borewell Water) (GW)

Sampling Date: Sample Receipt Date: 11/12/2023

Sample Drawn By: Sample Type: Sample Description:

Water

14/12/2023 Analysis Start Date: 15/12/2023

Analysis End Date: Sampling Method:

26/12/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

3.5 L

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.3	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	4.62	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 Sachi Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93Q/05/V3/02A

M/s Moil Limited

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

Reporting Date: 27/12/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1807C/93Q/05/V3/02

Sample Drawn By:

Sample Type:

Water

Sample Description:

Weigh Bridge (Borewell Water) (GW)

Sample Quantity:

Sample Condition:

Laboratory Representative

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

11/12/2023

14/12/2023 15/12/2023

26/12/2023 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 Sachi Patel

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/1807C/93Q/05/V3/03

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1807C/93Q/05/V3/03 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: Env. Cond.-Testing:

11/12/2023 12/12/2023 14/12/2023

15/12/2023-26/12/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.88	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.51	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.76	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	6.94	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 Sachi Patel

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93Q/05/V3/03

M/s Moil Limited

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

Reporting Date: 27/12/2023



TC-707

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1807C/93Q/05/V3/03 Laboratory Representative Ambient Air End Point of Railway Siding

Ambient Temperature
Satisfactory

Sampling Start Date: 11/12/2023 Sampling End Date: 12/12/2023 Sample Receipt Date: 14/12/2023

Analysis start- End Date: Total Sampling hours: 15/12/2023-26/12/2023

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall		mm	GGMPL/SOP/MP/01:2020	
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Sachi Patel

End of Report -

AHMEDABA

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93Q/05/V3/04

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1807C/93Q/05/V3/04 Laboratory Representative

Ambient Air Near Weigh Bridge Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: 12/12/2023 Sample Receipt Date:

Analysis start- End Date:

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

11/12/2023

14/12/2023 15/12/2023-26/12/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.56	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)	13.96	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.23	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.48	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.33	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)	1.11	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, BOL=Below Quantification Limit,QL= Quantification Limit

Analyzed By Sachi Patel

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93Q/05/V3/04

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1807C/93Q/05/V3/04 Laboratory Representative

Ambient Air

Near Weigh Bridge Ambient Temperature Satisfactory Sampling Start Date:

Sampling End Date: 12/12/2023 Sample Receipt Date: 14/12/2023

Analysis start- End Date: Total Sampling hours: 15/12/2023-26/12/2023

11/12/2023

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall		mm	GGMPL/SOP/MP/01:2020	
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Sachi Patel AHMEDABAD 2

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1807C/93Q/05/V3/05

M/s Moil Limited

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

Reporting Date: 27/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

11/12/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1807C/9 3Q/05/V3/05A	End Point of Railway Siding	Day Time	dB(A)Leq	IS 4758	68.5	-
2	Lab/PN/1807C/9 3Q/05/V3/05B	Nr Weigh Bridge	Day Time	dB(A)Leq	IS 4758	58.9	

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

Analyzed By Sachi Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/01

M/s Moil Limited

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

Reporting Date: 12/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

4.5L Sample Condition:

Salisfactory

Waste Water

Lab/PN/1723C/95U/V3/01

Laboratory Representative

Mine pit Water (WW)

Sampling Date:

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

Sampling Method: Packing:

05/12/2023 06/12/2023

01/12/2023

11/12/2023 GGMPL/WI/27A

Sealed

Sr.Nr	n Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.42	-	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	100.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.60	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	27	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.137	mg/L	APHA 23rd Edn 3120 B	2

Norms As Per CCA

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

- End of Report ---

AHMEDABAD

Authorized Signatory Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/02

M/s Moil Limited

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

Reporting Date: 12/12/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1723C/95U/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Open Dugwell (GW)

Sample Quantity: Sample Condition:

Satisfactory

7.5L

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

06/12/2023 11/12/2023 GGMPL/WI/27A

01/12/2023

05/12/2023

Sealed

Specification:

				p.		
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.45	-	IS 3025-Part 11	6.5 - 8.5	No Relaxation
2	Alkalinity as CaCO3	142.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	48.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.54	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	18.71	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	28.64	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	354.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	162.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	14.00	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





P.B. Pu **Authorized Signatory** Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/02

M/s Moil Limited

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

Reporting Date: 12/12/2023

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1723C/95U/V3/02

Sampling Date: Sample Receipt Date: 01/12/2023 05/12/2023

Sample Type:

Laboratory Representative

Analysis Start Date:

06/12/2023 11/12/2023

Sample Description: Sample Quantity:

Open Dugwell (GW) 7.5L

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.2	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	6.17	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as Per IS 10500.

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

Analyzed By Nidhi Shah

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Authorized Signatory Payal Patel

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/02A

M/s Moil Limited

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

Reporting Date: 12/12/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1723C/95U/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

7.5L

Sample Description:

Open Dugwell (GW)

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

01/12/2023

Sample Receipt Date: Analysis Start Date: 05/12/2023 06/12/2023

Analysis End Date:

1/12/2023

Sampling Method:

11/12/2023 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/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL as Per IS 10500.

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

Analyzed By Nidhi Shah AHMEDABAD PO

Authorized Signatory Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/03

M/s Moil Limited

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

Reporting Date: 12/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1723C/95U/V3/03 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:

01/12/2023 02/12/2023 05/12/2023

06/12/2023-11/12/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.13	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.15	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.12	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.54	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)	0.99	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 Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/03

M/s Moil Limited

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

Reporting Date: 12/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1723C/95U/V3/03 Laboratory Representative

Ambient Air Near Mine Office Ambient Temperature

Satisfactory

Sampling Start Date: 01/12/2023 02/12/2023 Sampling End Date: Sample Receipt Date: 05/12/2023

Analysis start- End Date: 06/12/2023-11/12/2023 Total Sampling hours: Env. Cond.-Testing:

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	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	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

AHMEDABA *

--- End of Report ---

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/04

M/s Moil Limited

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

Reporting Date: 12/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1723C/95U/V3/04

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: 01/12/2023 02/12/2023

25±5°C

05/12/2023 06/12/2023-11/12/2023

24

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.54	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.83	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.43	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.97	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)	1.05	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 Nidhi Shah Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/04

M/s Moil Limited

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

Reporting Date: 12/12/2023



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1723C/95U/V3/04 Laboratory Representative

Ambient Air Waste Dump Side

Ambient Temperature Satisfactory

Sampling Start Date: 01/12/2023 02/12/2023 Sampling End Date: Sample Receipt Date: 05/12/2023

Analysis start- End Date: Total Sampling hours:

06/12/2023-11/12/2023

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	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	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Nidhi Shah

Authorized Signatory

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/05

M/s Moil Limited

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

Reporting Date: 12/12/2023



01/12/2023

02/12/2023 05/12/2023

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1723C/95U/V3/05

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:

06/12/2023-11/12/2023 24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.51	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.22	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.19	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.40	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)	1.05	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 Nidhi Shah

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/05

M/s Moil Limited

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

Reporting Date: 12/12/2023



TC-7073

SAMPLE DETAILS

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

Ambient Air Near Mine Pit Ambient Temperature

Env. Cond.-Sample Receipt:

Lab/PN/1723C/95U/V3/05 Sampling Start Date: 01/12/2023 Laboratory Representative Sampling End Date: 02/12/2023 Sample Receipt Date: 05/12/2023 Analysis start- End Date: 06/12/2023-11/12/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	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	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Nidhi Shah



Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/06

M/s Moil Limited

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

Reporting Date: 12/12/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1723C/95U/V3/06

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:

01/12/2023 02/12/2023

25±5°C

05/12/2023 06/12/2023-11/12/2023

06/12/2023-11/12/2023 24

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.29	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.67	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.81	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.54	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)	1.05	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 Nidhi Shah AHMEDABAD PV

Authorized Signatory Payal Patel

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/06

M/s Moil Limited

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

Reporting Date: 12/12/2023



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1723C/95U/V3/06 Laboratory Representative Ambient Air Mine Road (Near Khasra No.19) Ambient Temperature

Satisfactory

Sampling Start Date: 01/12/2023
Sampling End Date: 02/12/2023
Sample Receipt Date: 05/12/2023
Analysis start- End Date: 06/12/2023
Total Sampling hours: 24

05/12/2023 06/12/2023-11/12/2023 24

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Rainfall	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

Analyzed By Nidhi Shah AHMEDABAD ON A CONTROL OF STREET

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1723C/95U/V3/07

M/s Moil Limited

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

Reporting Date: 12/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

01/12/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1723C/9 5U/V3/07A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	56.3	-
2	Lab/PN/1723C/9 5U/V3/07B	Waste Dump Area	Day Time	dB(A)Leq	IS 4758	58.9	
3	Lab/PN/1723C/9 5U/V3/07C	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	61.3	-
4	Lab/PN/1723C/9 5U/V3/07D	Main Road Near Khasra No. 19	Day Time	dB(A)Leq	IS 4758	59.1	

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

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