

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/1130C/93M/V2/01

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:

Lab/PN/1130C/93M/V2/01

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

Administrative Building(Borewell) (GW)

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

01/09/2023

04/09/2023 05/09/2023

11/09/2023 GGMPL/WI/27A

Sealed

Specification:

6 11						
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.40	Ξ.	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	138.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	45.69	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)	0.57	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.01	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	18.28	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	362.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	184.00	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

Proceed

Analyzed By Pooja Parekh



**Authorized Signatory** Manish Kumawat

Page No: 1/2

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M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:

Lab/PN/1130C/93M/V2/01

Sampling Date:

01/09/2023

Sample Drawn By:

Laboratory Representative Water

Sample Receipt Date: 05/09/2023

04/09/2023

Sample Type: Sample Description:

Administrative Building(Borewell) (GW)

Analysis Start Date: Analysis End Date:

11/09/2023

Sample Quantity:

4.5L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.84	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	30	100
16	Nitrate	3.80	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

Polanel

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Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/01A

M/s Moil Limited

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

Reporting Date: 12/09/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/1130C/93M/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Administrative Building(Borewell) (GW)

Sample Quantity:

4.5L

Satisfactory

Sample Condition:

Sampling Date:

01/09/2023

Sample Receipt Date:

04/09/2023 05/09/2023

Analysis Start Date:

11/09/2023

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.I	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

Blance

Analyzed By Pooja Parekh



Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/02

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1130C/93M/V2/02 Laboratory Representative

Sample Type:

Waste Water

Sample Description:

Mine Seapage water (Vertical Shaft)

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

01/09/2023

04/09/2023 05/09/2023

11/09/2023 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.36	-	IS 3025- Part 11	-
2	Total Suspended Solids	27.00	mg/L	APHA 23rd Edn 2540 D	- 1
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	72
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	3.9	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	21	mg/L	IS 3025- Part 44	
7	Manganese as Mn	0.256	mg/L	APHA 23rd Edn 3120 B	-

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

Produced

Analyzed By Pooja Parekh



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/03

M/s Moil Limited

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



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1130C/93M/V2/03

Sample Drawn By:

Laboratory Representative

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

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

01/09/2023

04/09/2023 05/09/2023

11/09/2023 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.95	-	IS 3025- Part 11	-
2	Total Suspended Solids	42.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	360.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.3	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	116	mg/L	IS 3025- Part 44	
7	Manganese as Mn	0.124	mg/L	APHA 23rd Edn 3120 B	-

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

Prounds

Analyzed By Pooja Parekh



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/04

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1130C/93M/V2/04

Sample Drawn By:

Laboratory Representative

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

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

01/09/2023

04/09/2023 05/09/2023

11/09/2023 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.19	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	29.00	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	70.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.5	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	20	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.143	mg/L	APHA 23rd Edn 3120 B	NS

Norms As Per CCA

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

Premos

Analyzed By Pooja Parekh



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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/05

M/s Moil Limited

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



## SAMPLE DETAILS

Lab ID:

Lab/PN/1130C/93M/V2/05

Sample Drawn By:

Laboratory Representative

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

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

01/09/2023

04/09/2023

05/09/2023 11/09/2023

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.14	-	IS 3025- Part 11	=
2	Total Suspended Solids	58.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	120.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	2.1	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	48	mg/L	IS 3025- Part 44	
7	Manganese as Mn	0.188	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By Pooja Parekh



Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/06

M/s Moil Limited

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



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1130C/93M/V2/06

Sample Drawn By:

Laboratory Representative

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

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

01/09/2023

04/09/2023 05/09/2023 11/09/2023

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.44	-	IS 3025- Part 11	NS
2	Total Suspended Solids	26.00	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	90.00	mg/L	APHA 23rd Edn 5220 B	100
5	Dissolved Oxygen	4.2	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	26	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.123	mg/L	APHA 23rd Edn 3120 B	NS

Norms As Per CCA

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

Blances

Pooja Parekh



Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/07

M/s Moil Limited

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

Reporting Date: 12/09/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1130C/93M/V2/07

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:

01/09/2023

02/09/2023 04/09/2023

05/09/2023-11/09/2023

25±5°C

C. N					
Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.67	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.61	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.79	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.68	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.11	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
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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/1130C/93M/V2/07

M/s Moil Limited

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

Reporting Date: 12/09/2023



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1130C/93M/V2/07 Laboratory Representative Ambient Air Near Administrative Building Ambient Temperature Satisfactory Sampling Start Date: 01/09/2023
Sampling End Date: 02/09/2023
Sample Receipt Date: 04/09/2023
Analysis start- End Date: 05/09/2023-11/09/2023
Total Sampling hours: 24
Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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	4	m/s	GGMPL/SOP/MP/01:2020	NS
15	Time Speed		,-		

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

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Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/08

M/s Moil Limited

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

Reporting Date: 12/09/2023



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1130C/93M/V2/08

Laboratory Representative Ambient Air

Ambient Air

Satisfactory

Near Vertical Shaft 1 Ambient Temperature Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 01/09/2023

02/09/2023 04/09/2023

05/09/2023-11/09/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.33	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.49	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.31	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.94	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.37	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/08

M/s Moil Limited

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

Reporting Date: 12/09/2023



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1130C/93M/V2/08 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:

Total Sampling hours: Env. Cond.-Testing: 01/09/2023

02/09/2023 04/09/2023

05/09/2023-11/09/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13 Re	elative Humidity	58	%	GGMPL/SOP/MP/01	NS
14 Le	ad	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15 Wi	ind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Prairies

Analyzed By Pooja Parekh



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/09

M/s Moil Limited

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

Reporting Date: 12/09/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1130C/93M/V2/09 Laboratory Representative

Ambient Air Near DSU Plant

Ambient Temperature

Satisfactory

Sampling Start Date: 01/09/2023 Sampling End Date: 02/09/2023

Sample Receipt Date: 04/09/2023

Analysis start- End Date: 05/09/2023-11/09/2023 Total Sampling hours:

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.52	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.75	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.27	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.14	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.81	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

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M/s Moil Limited

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

Reporting Date: 12/09/2023



### SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1130C/93M/V2/09 Laboratory Representative

Ambient Air Near DSU Plant

Ambient Temperature

Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing:

01/09/2023 02/09/2023

04/09/2023 05/09/2023-11/09/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/10

M/s Moil Limited

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

Reporting Date: 12/09/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1130C/93M/V2/10

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: 01/09/2023 02/09/2023 04/09/2023

05/09/2023-11/09/2023

05/09/2023-11/09/20 24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.95	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.93	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.71	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.31	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/10

M/s Moil Limited

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

Reporting Date: 12/09/2023



TC-7073

### SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1130C/93M/V2/10 Laboratory Representative Ambient Air Near Compressor Room Ambient Temperature Satisfactory 

 Sampling Start Date:
 01/09/2023

 Sampling End Date:
 02/09/2023

 Sample Receipt Date:
 04/09/2023

 Analysis start- End Date:
 05/09/2023-11/09/2023

 Total Sampling hours:
 24

 Env. Cond.-Testing:
 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Proceed

Analyzed By Pooja Parekh



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1130C/93M/V2/11

M/s Moil Limited

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

Reporting Date: 12/09/2023



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory representative

Sampling Date:

Sample Description:

01/09/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1130C/9 3M/V2/11A	Near Administrative Building	Day Time	dB(A)Leq	IS 4758	66.5	75
2	Lab/PN/1130C/9 3M/V2/11B	Near Vertical Shaft-1	Day Time	dB(A)Leq	IS 4758	69.1	75
3	Lab/PN/1130C/9 3M/V2/11C	Near DSU Plant	Day Time	dB(A)Leq	IS 4758	67.8	75
4	Lab/PN/1130C/9 3M/V2/11D	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	69.5	75

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

dand

Analyzed By Pooja Parekh



Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1131C/93N/V2/01

M/s Moil Limited

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

Reporting Date: 12/09/2023



### SAMPLE DETAILS

Lab ID:

Lab/PN/1131C/93N/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

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

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

01/09/2023

04/09/2023 04/09/2023

11/09/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.38	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	19.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.46	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	21.14	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	9	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	37.62	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	250.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	169.00	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

ABPUTS

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1131C/93N/V2/01

M/s Moil Limited

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

Reporting Date: 12/09/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/1131C/93N/V2/01

Laboratory Representative

Mine Pit Water(Old Durga Pit Water) (GW) 4.51

Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

01/09/2023

04/09/2023 04/09/2023 11/09/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.27	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

Asputs

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1131C/93N/V2/01A

M/s Moil Limited

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

Reporting Date: 12/09/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/1131C/93N/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

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

4.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

01/09/2023

Sample Receipt Date:

04/09/2023 04/09/2023

Analysis Start Date: Analysis End Date:

11/09/2023

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/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 Aarmi Patel



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1131C/93N/V2/02

M/s Moil Limited

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

Reporting Date: 12/09/2023



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1131C/93N/V2/02

Laboratory Representative

Ambient Air Near Old OCF

Satisfactory

Ambient temperature

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

01/09/2023

02/09/2023 04/09/2023

04/09/2023-11/09/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.49	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.01	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.65	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.23	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.59	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)	1.1	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

Aarmi Patel

**Authorized Signatory** Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1131C/93N/V2/02

M/s Moil Limited

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

Reporting Date: 12/09/2023



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1131C/93N/V2/02

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: 01/09/2023 02/09/2023

04/09/2023

04/09/2023-11/09/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead -	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Asputa

Analyzed By Aarmi Patel AHMEDABAD P

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1131C/93N/V2/03

M/s Moil Limited

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

Reporting Date: 12/09/2023



### SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

01/09/2023 Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1131C/9 3N/V2/03	Near Old OCF	Day Time	dB(A)Leq	IS 4758	61.9	75

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

Aarmi Patel

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1132C/93O/V2/01

M/s Moil Limited

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

Reporting Date: 12/09/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1132C/93O/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Staff Colony Borewell (GW)

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

Sample Receipt Date:

2:

Analysis Start Date:

04/09/2023 04/09/2023

01/09/2023

Analysis End Date: Sampling Method: 11/09/2023 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.32	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	179.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	57.71	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)	0.23	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	24.75	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	347.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	218.00	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

PHarues

Analyzed By Pooja Parekh



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1132C/93O/V2/01

M/s Moil Limited

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

Reporting Date: 12/09/2023



### SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/1132C/93O/V2/01 Laboratory Representative Sampling Date: Sample Receipt Date: 01/09/2023 04/09/2023 04/09/2023

Sample Type: Sample Description:

Staff Colony Borewell (GW)

Analysis Start Date: Analysis End Date:

11/09/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition:

4.5 L Satisfactory 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	2.93	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

Proceeds

Analyzed By Pooja Parekh



Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1132C/93O/V2/01A

M/s Moil Limited

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

Reporting Date: 12/09/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/1132C/93O/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Staff Colony Borewell (GW)

Sample Quantity:

4.5 L

Sample Condition:

Lati Colotty B

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

piling Method: GGi

Packing:

01/09/2023

04/09/2023

04/09/2023

11/09/2023 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/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 Pooja Parekh

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Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1132C/93O/V2/02

M/s Moil Limited

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

Reporting Date: 12/09/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1132C/93O/V2/02

Laboratory Representative

Ambient Air Near Staff Colony Ambient Temperature

Satisfactory

Sampling Start Date: 01/09/2023 Sampling End Date: 02/09/2023

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

04/09/2023-11/09/2023

04/09/2023

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.85	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.43	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.22	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.30	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.49	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
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Pooja Parekh

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Report Number: GGMPL/PN/1132C/93O/V2/02

M/s Moil Limited

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

Reporting Date: 12/09/2023



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1132C/93O/V2/02 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: 01/09/2023 02/09/2023

04/09/2023

04/09/2023-11/09/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15	Wind Speed	7	m/s	GGMPL/SOP/MP/01:2020	NS

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

Polares

Analyzed By Pooja Parekh AHMEDABAD PYT

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Report Number: GGMPL/PN/1132C/93O/V2/03

M/s Moil Limited

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

Reporting Date: 12/09/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

01/09/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1132C/9 3O/V2/03	Nr Staff Colony	Day Time	dB(A)Leq	IS 4758	54.6	75

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

Analyzed By Pooja Parekh

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1133C/93P/V2/01

M/s Moil Limited

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

Reporting Date: 12/09/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1133C/93P/V2/01

Laboratory Representative

Sampling Date: Sample Receipt Date: 01/09/2023 04/09/2023

Sample Drawn By: Sample Type:

Water

Analysis Start Date:

04/09/2023 11/09/2023

Sample Description:

VT Center Borewell (GW) 4.5 L

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.42	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	161.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	50.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	42.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.38	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	36.45	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	29.74	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	275.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	8.0	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



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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: 12/09/2023



### SAMPLE DETAILS

Lab ID:

Lab/PN/1133C/93P/V2/01

Sampling Date:

01/09/2023

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

04/09/2023 04/09/2023 11/09/2023

Sample Description: Sample Quantity:

Sample Condition:

VT Center Borewell (GW) 4.5 L Satisfactory

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.0	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

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/1133C/93P/V2/01A

M/s Moil Limited

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

Reporting Date: 12/09/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/1133C/93P/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

VT Center Borewell (GW)

Sample Quantity:

4.5 L Satisfactory

Sample Condition:

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

01/09/2023

04/09/2023 04/09/2023

11/09/2023 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/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 Sachi Patel AHMEDABAD P

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1133C/93P/V2/02

M/s Moil Limited

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

Reporting Date: 12/09/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1133C/93P/V2/02

Laboratory Representative

Ambient Air Near VT Center

Ambient Temperature Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

02/09/2023 04/09/2023

01/09/2023

04/09/2023-11/09/2023

24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.30	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)	10.88	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.33	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.97	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	13.33	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)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

Sachi

Analyzed By Sachi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1133C/93P/V2/02

M/s Moil Limited

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

Reporting Date: 12/09/2023



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1133C/93P/V2/02 Laboratory Representative

Ambient Air Near VT Center Ambient Temperature

Satisfactory

Sampling Start Date: 01/09/2023 Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

02/09/2023 04/09/2023

04/09/2023-11/09/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS
				The state of the s	

NS=Not Specified, BQL=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/1133C/93P/V2/03

M/s Moil Limited

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

Reporting Date: 12/09/2023



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

01/09/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1133C/9 3P/V2/03	Nr. VT Center	Day Time	dB(A)Leq	IS 4758	56.7	75

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

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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1134C/93Q/V2/01

M/s Moil Limited

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

Reporting Date: 16/09/2023



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1134C/93Q/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Railway Siding (Borewell Water) (GW)

4.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

01/09/2023

04/09/2023 05/09/2023

15/09/2023 GGMPL/WI/27A

Sealed

Specification:

3 Calcium as Ca 42.48 mg/L APHA 23rd Edn 3500 Ca B 75 4 Chloride 33.98 mg/L IS 3025 -Part 32 250 5 Colour BQL (QL=1) CU IS 3025 Part-4 5 6 Fluoride (F) 0.50 mg/L APHA 23rd Edn 4500 F D 1.0 7 Magnesium as Mg 24.54 mg/L APHA 23rd Edn 3500 Mg B 30 8 Odour Agreeble - IS 3025 Part-5 Agreeble 9 Sulphate 20.95 mg/L APHA 23rd Edn 4500 SO4 E 200 10 Total Dissolved Solids 330 mg/L APHA 23rd Edn 2540 C 500	PL			Test Method	Unit	Results	Parameters Parameters	Sr.No
3       Calcium as Ca       42.48       mg/L       APHA 23rd Edn 3500 Ca B       75         4       Chloride       33.98       mg/L       IS 3025 -Part 32       250         5       Colour       BQL (QL=1)       CU       IS 3025 Part-4       5         6       Fluoride (F)       0.50       mg/L       APHA 23rd Edn 4500 F D       1.0         7       Magnesium as Mg       24.54       mg/L       APHA 23rd Edn 3500 Mg B       30         8       Odour       Agreeble       -       IS 3025 Part-5       Agreeble         9       Sulphate       20.95       mg/L       APHA 23rd Edn 4500 SO4 E       200         10       Total Dissolved Solids       330       mg/L       APHA 23rd Edn 2540 C       500	No relaxation	-8.5		IS 3025-Part 11	-	7.54	pH at 25 °C	1
4       Chloride       33.98       mg/L       IS 3025 -Part 32       250         5       Colour       BQL (QL=1)       CU       IS 3025 Part-4       5         6       Fluoride (F)       0.50       mg/L       APHA 23rd Edn 4500 F D       1.0         7       Magnesium as Mg       24.54       mg/L       APHA 23rd Edn 3500 Mg B       30         8       Odour       Agreeble       -       IS 3025 Part-5       Agreeble         9       Sulphate       20.95       mg/L       APHA 23rd Edn 4500 SO4 E       200         10       Total Dissolved Solids       330       mg/L       APHA 23rd Edn 2540 C       500	600		2320 B	APHA 23rd Edn 23	mg/L	142	Alkalinity as CaCO3	2
5       Colour       BQL (QL=1)       CU       IS 3025 Part-4       5         6       Fluoride (F)       0.50       mg/L       APHA 23rd Edn 4500 F D       1.0         7       Magnesium as Mg       24.54       mg/L       APHA 23rd Edn 3500 Mg B       30         8       Odour       Agreeble       -       IS 3025 Part-5       Agreeble         9       Sulphate       20.95       mg/L       APHA 23rd Edn 4500 SO4 E       200         10       Total Dissolved Solids       330       mg/L       APHA 23rd Edn 2540 C       500	200		3500 Ca B	APHA 23rd Edn 35	mg/L	42.48	Calcium as Ca	3
6       Fluoride (F)       0.50       mg/L       APHA 23rd Edn 4500 F D       1.0         7       Magnesium as Mg       24.54       mg/L       APHA 23rd Edn 3500 Mg B       30         8       Odour       Agreeble       -       IS 3025 Part-5       Agreeble         9       Sulphate       20.95       mg/L       APHA 23rd Edn 4500 SO4 E       200         10       Total Dissolved Solids       330       mg/L       APHA 23rd Edn 2540 C       500	1000			IS 3025 -Part 32	mg/L	33.98	Chloride	4
7       Magnesium as Mg       24.54       mg/L       APHA 23rd Edn 3500 Mg B       30         8       Odour       Agreeble       -       IS 3025 Part-5       Agreeble         9       Sulphate       20.95       mg/L       APHA 23rd Edn 4500 SO4 E       200         10       Total Dissolved Solids       330       mg/L       APHA 23rd Edn 2540 C       500	15			IS 3025 Part-4	CU	BQL (QL=1)	Colour	5
8       Odour       Agreeble       -       IS 3025 Part-5       Agreeble         9       Sulphate       20.95       mg/L       APHA 23rd Edn 4500 SO4 E       200         10       Total Dissolved Solids       330       mg/L       APHA 23rd Edn 2540 C       500	1.5		4500 F D	APHA 23rd Edn 45	mg/L	0.50	Fluoride (F)	6
9 Sulphate       20.95       mg/L       APHA 23rd Edn 4500 SO4 E       200         10 Total Dissolved Solids       330       mg/L       APHA 23rd Edn 2540 C       500	100		3500 Mg B	APHA 23rd Edn 35	mg/L	24.54	Magnesium as Mg	7
10 Total Dissolved Solids 330 mg/L APHA 23rd Edn 2540 C 500	Agreeble	eeble		IS 3025 Part-5	= =	Agreeble	Odour	8
	400	)	4500 SO4 E	APHA 23rd Edn 45	mg/L	20.95	Sulphate	9
	2000		2540 C	APHA 23rd Edn 25	mg/L	330	Total Dissolved Solids	10
11 Total Hardness as CaCO3 220 mg/L APHA 23rd Edn 2340 C 200	600	)	2340 C	APHA 23rd Edn 23	mg/L	220	Total Hardness as CaCO3	11
12 Total Suspended Solids (TSS) 10.00 mg/L APHA 23rd Edn 2540 D NS	NS		2540 D	APHA 23rd Edn 25	mg/L	10.00	Total Suspended Solids (TSS)	12

AL & PL as per IS 10500.

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1134C/93Q/V2/01

M/s Moil Limited

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

Reporting Date: 16/09/2023



### SAMPLE DETAILS

Lab ID:

Lab/PN/1134C/93Q/V2/01

Sampling Date:

01/09/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

04/09/2023

Sample Type:

Water

Analysis Start Date: 05/09/2023

15/09/2023

Sample Description: Sample Quantity:

Railway Siding (Borewell Water) (GW) 4.5 L

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	3.0	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.75	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as per IS 10500.

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

Kinjal Damor

**Authorized Signatory** Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1134C/93Q/V2/01A

M/s Moil Limited

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

Reporting Date: 16/09/2023

# SAMPLE DETAILS

Lab ID:

Lab/PN/1134C/93Q/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Railway Siding (Borewell Water) (GW)

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

01/09/2023

Sample Receipt Date: Analysis Start Date:

04/09/2023 05/09/2023

Analysis End Date:

15/09/2023

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No Para	meters* Results	Unit	Test Method	AL	PL
1 Total Coliform (N	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

Kinjal Damor

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1134C/93Q/V2/02

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Lab/PN/1134C/93Q/V2/02

Laboratory Representative

Sample Drawn By: Sample Type:

Sample Description:

Weigh Bridge (Borewell Water) (GW)

Sample Quantity: Sample Condition:

Satisfactory

4.5 L

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

05/09/2023 15/09/2023 GGMPL/WI/27A

01/09/2023

04/09/2023

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.25	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	126	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	41.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	34.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.58	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	14.09	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	e Agreeable
9	Sulphate	26.46	mg/L	APHA 23rd Edn 4500 SO4 E	2	400
10	Total Dissolved Solids	294	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	170	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	8	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

Analyzed By Kinjal Damor



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1134C/93Q/V2/02

M/s Moil Limited

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

ATTENDED TO THE PROPERTY OF TH

Reporting Date: 16/09/2023

TC-707

# SAMPLE DETAILS

Lab ID:

Lab/PN/1134C/93Q/V2/02

Sampling Date:

01/09/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

04/09/2023 05/09/2023

Sample Type: Sample Description:

Weigh Bridge (Borewell Water) (GW)

Analysis Start Date: Analysis End Date:

15/09/2023

Sample Quantity:

4.5 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	6.74	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



Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1134C/93Q/V2/02A

M/s Moil Limited

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

Reporting Date: 16/09/2023

## SAMPLE DETAILS

Lab ID:

Lab/PN/1134C/93Q/V2/02

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Weigh Bridge (Borewell Water) (GW)

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

01/09/2023 04/09/2023

Analysis Start Date:

05/09/2023

Analysis End Date: Sampling Method:

15/09/2023 GGMPL/WI/27A

Sealed

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/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

Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1134C/93Q/V2/03

M/s Moil Limited

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

Reporting Date: 16/09/2023



## SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1134C/93Q/V2/03 Laboratory Representative

Ambient Air

End Point of Railway Siding Ambient Temperature Laboratory Representative Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 01/09/2023 02/09/2023 04/09/2023

05/09/2023-15/09/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.36	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)	15.26	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.77	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.97	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)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Analyzed by Kinjal Damor

AHMEDABAD PV

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1134C/93Q/V2/03

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1134C/93Q/V2/03 Laboratory Representative Ambient Air End Point of Railway Siding Ambient Temperature

Laboratory Representative

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

Env. Cond.-Testing:

01/09/2023 02/09/2023 04/09/2023 05/09/2023-

05/09/2023-15/09/2023 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

AHMEDABAD PV

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1134C/93Q/V2/04

M/s Moil Limited

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

Reporting Date: 16/09/2023



TC-7073

# SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1134C/93Q/V2/04 Laboratory Representative

Ambient Air Near Weigh Bridge

Ambient Temperature Laboratory Representative Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 01/09/2023 02/09/2023

04/09/2023

05/09/2023-15/09/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
. 1	Particulate Matter (PM10)	57.30	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.68	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.07	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	6.08	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	301	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Kinjal Damor AHMEDABAD PW

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/1134C/93Q/V2/04

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1134C/93Q/V2/04 Laboratory Representative Ambient Air Near Weigh Bridge Ambient Temperature Laboratory Representative Sampling Start Date: Sampling End Date: Sample Receipt Date:

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

01/09/2023 02/09/2023 04/09/2023

05/09/2023-15/09/2023

9		
esting:	25±5°C	

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	0.00061	μg/m3	USEPA Method IO 3.4	1
15	Wind Speed	1.9	m/s	GGMPL/SOP/MP/01:2020	NS

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

Kinjal Damor

Authorized Signatory Manish Kumawat

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M/s Moil Limited

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

Reporting Date: 16/09/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

01/09/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1134C/9 3Q/V2/05A	End Point of Railway Siding	Day Time	dB(A)Leq	IS 4758	59.6	75
2	Lab/PN/1134C/9 3Q/V2/05B	Near Weight Bridge	Day Time	dB(A)Leq	IS 4758	58.2	75

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

Kinjal Damor

**Authorized Signatory** Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1145C/95U/V2/01

M/s Moil Limited

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

Reporting Date: 16/09/2023



03/09/2023

06/09/2023

07/09/2023

15/09/2023

## SAMPLE DETAILS

Lab ID:

Lab/PN/1145C/95U/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

Mine Pit Water (WW)

Sample Quantity:

4.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

GGMPL/WI/27A Sealed

Packing:

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.48	-	IS 3025- Part 11	-
2	Total Suspended Solids	28.00	mg/L	APHA 23rd Edn 2540 D	*
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	110.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	1.22	mg/L	15 3025: Part 38	
O	DOD at 27 a C for 3 days	31	mg/L	IS 3025 Part 44	
7	Manganese as Mn	0.8	mg/L	APHA 23rd Edn 3120 B	

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

Appet

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1145C/95U/V2/02

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Lab/PN/1145C/95U/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Open Dugwell (GW)

Sample Quantity:

4.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

15/09/2023 GGMPL/WI/27A

03/09/2023

06/09/2023

07/09/2023

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.31	-	IS 3025-Part 11	6.5 To 8.5	No Relaxation
2	Alkalinity as CaCO3	129.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	30.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	38.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.46	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	22.95	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	332.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	152.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	11.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Analyzed By Aarmi Patel



**Authorized Signatory** Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1145C/95U/V2/02

M/s Moil Limited

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

Reporting Date: 16/09/2023



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1145C/95U/V2/02

Sample Drawn By: Sample Type: Laboratory Representative

Water

Sample Description:

Sample Condition:

Open Dugwell (GW)

Sample Quantity:

4.5L Satisfactory Sampling Date: Sample Receipt Date: 03/09/2023 06/09/2023

Analysis Start Date: Analysis End Date: 07/09/2023

Sampling Method:

15/09/2023 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	2.27	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 AHMEDABAD W

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1145C/95U/V2/02A

M/s Moil Limited

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

Reporting Date: 16/09/2023

# SAMPLE DETAILS

Lab ID:

Lab/PN/1145C/95U/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Open Dugwell (GW)

Sample Quantity:

4.5L

Sample Condition:

Satisfactory

Sampling Date:

03/09/2023

Sample Receipt Date:

06/09/2023 07/09/2023

Analysis Start Date: Analysis End Date:

15/09/2023

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/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 Aarmi Patel

**Authorized Signatory** Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1145C/95U/V2/03

M/s Moil Limited

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

Reporting Date: 16/09/2023



03/09/2023

04/09/2023

06/09/2023

# SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1145C/95U/V2/03 Laboratory Representative Ambient Air

Near Mine Office Ambient Temperature

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

07/09/2023-15/09/2023 Total Sampling hours: Satisfactory Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.04	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	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)	20.77	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.70	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
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/1145C/95U/V2/03

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1145C/95U/V2/03

Laboratory Representative Ambient Air Near Mine Office Ambient Temperature

Satisfactory

Sampling Start Date: 03/09/2023 Sampling End Date: 04/09/2023 Sample Receipt Date: 06/09/2023

Analysis start- End Date: 07,

07/09/2023-15/09/2023

Total Sampling hours: 24 Env. Cond.-Testing:  $25\pm5^{\circ}$ C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	.58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel AHMEDABAD PV

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1145C/95U/V2/04

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1145C/95U/V2/04

Laboratory Representative Ambient Air

Waste Dump Side **Ambient Temperature** 

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Total Sampling hours:

Analysis start- End Date:

Env. Cond.-Testing:

03/09/2023

04/09/2023 06/09/2023

07/09/2023-15/09/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.57	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.19	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.75	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.15	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/1145C/95U/V2/04

M/s Moil Limited

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

Reporting Date: 16/09/2023



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1145C/95U/V2/04

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: 03/09/2023 04/09/2023

04/09/2023 06/09/2023

07/09/2023-15/09/2023

24 25±5°C

Sr Nn	Parameters	Results	Unit	Test Method	NΔΔQ Standards
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/mЈ	USLI'A Method IU J.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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/1145C/95U/V2/05

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1145C/95U/V2/05 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:

Env. Cond.-Testing: 25±5°C

03/09/2023 04/09/2023

06/09/2023 07/09/2023-15/09/2023

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)	37.91	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.12	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.95	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.92	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.25	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1145C/95U/V2/05

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1145C/95U/V2/05 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: Env. Cond.-Testing: 03/09/2023 04/09/2023 06/09/2023

06/09/2023 07/09/2023-15/09/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Analyzed By Aarmi Patel AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1145C/95U/V2/06

M/s Moil Limited

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

Reporting Date: 16/09/2023



# SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1145C/95U/V2/06 Laboratory Representative

Ambient Air

Mine Road (Near Khasra No.19)

Ambient Temperature Satisfactory

Sampling Start Date: 03/09/2023 Sampling End Date: 04/09/2023

Sample Receipt Date: Analysis start- End Date:

07/09/2023-15/09/2023

Total Sampling hours: Env. Cond.-Testing:

25±5°C

06/09/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.31	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.91	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.09	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.59	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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/1145C/95U/V2/06

M/s Moil Limited

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

Reporting Date: 16/09/2023



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1145C/95U/V2/06

Laboratory Representative

Ambient Air

Mine Road (Near Khasra No.19)

Ambient Temperature

Satisfactory

Sampling Start Date: 03/09/2023 Sampling End Date: 04/09/2023

Sample Receipt Date: 06/09/2023

Analysis start- End Date: 07/09/2023-15/09/2023Total Sampling hours: 24 Env. Cond.-Testing:  $25\pm5^{\circ}$ C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel AHMEDABAD P

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1145C/95U/V2/07

M/s Moil Limited

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

Reporting Date: 16/09/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

03/09/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1145C/9 5U/V2/07A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	65.5	75
2	Lab/PN/1145C/9 5U/V2/07B	Waste Dump Side	Day Time	dB(A)Leq	IS 4758	69.9	75
3	Lab/PN/1145C/9 5U/V2/07C	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	67.8	75
4	Lab/PN/1145C/9 5U/V2/07D	Mine Road (Near Khasra No.19)	Day Time	dB(A)Leq	IS 4758	65.8	75

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

Analyzed By Aarmi Patel

**Authorized Signatory** Manish Kumawat

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