

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/535D/93M/01

M/s Moil Limited

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

Reporting Date : 06/06/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/01	Sampling Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/05/2024
Sample Type:	Ground Water	Analysis Start Date:	29/05/2024
Sample Description:	Administrative Building Borewell (GW)	Analysis End Date:	05/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

						Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL	
1	Alkalinity as CaCO <sub>3</sub>	166.00	mg/L	APHA 23rd Edn 2320 B	200	600	
2	Calcium as Ca	65.73	mg/L	APHA 23rd Edn 3500 Ca B	75	200	
3	Chloride	85.97	mg/L	IS 3025- Part 32	250	1000	
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15	
5	Fluoride	0.25	mg/L	APHA 23rd Edn 4500 F D	1	1.5	
6	Magnesium as Mg	12.39	mg/L	APHA 23rd Edn 3500 Mg B	30	100	
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable	
8	pH at 25 °C	6.55	-	IS 3025- Part 11	6.5 to 8.5	No relaxation	
9	Sulphate	25.64	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400	
10	Total Dissolved Solids (TDS)	330.0	mg/L	APHA 23rd Edn 2540 C	500	2000	
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS	

AL & PL As Per IS 10500.

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

*Khushbu*  
Analyzed By  
Khushbu Suthar



*Manish*  
Authorized Signatory  
Manish Kumawat

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M/s Moil Limited

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

Reporting Date : 06/06/2024



### SAMPLE DETAILS

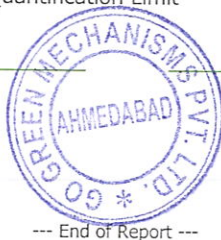
Lab ID:	Lab/PN/535D/93M/01	Sampling Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/05/2024
Sample Type:	Ground Water	Analysis Start Date:	29/05/2024
Sample Description:	Administrative Building Borewell (GW)	Analysis End Date:	05/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	214.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.69	mg/L	APHA 23rd Edn 4500 NO <sub>3</sub> B	45	No Relaxation

AL & PL As Per IS 10500.

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

*Khushbu*  
Analyzed By  
Khushbu Suthar



--- End of Report ---

*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

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### Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/535D/93M/02

M/s Moil Limited

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

Reporting Date : 06/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/02	Sampling Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/05/2024
Sample Type:	Waste Water	Analysis Start Date:	29/05/2024
Sample Description:	Mine Seepage Water Vertical Shaft (WW)	Analysis End Date:	05/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.53	-	IS 3025- Part 11	-
2	Total Suspended Solids	20.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	3.8	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	19	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By  
Khushbu Suthar



Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/535D/93M/03

M/s Moil Limited

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

Reporting Date : 06/06/2024




TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/03	Sampling Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/05/2024
Sample Type:	Waste Water	Analysis Start Date:	29/05/2024
Sample Description:	ETP Inlet (WW)	Analysis End Date:	05/06/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.72	-	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	290.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	3.9	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	93	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

  
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Khushbu Suthar



  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/535D/93M/04

M/s Moil Limited

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

Reporting Date : 06/06/2024



### SAMPLE DETAILS

Lab ID: Lab/PN/535D/93M/04  
Sample Drawn By: Laboratory Representative  
Sample Type: Waste Water  
Sample Description: ETP Outlet (WW)

Sampling Date: 26/05/2024  
Sample Receipt Date: 28/05/2024  
Analysis Start Date: 29/05/2024  
Analysis End Date: 05/06/2024


Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

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

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.25	-	IS 3025- Part 11	5.5 to 9.0
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	10
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	3.20	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	22	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms As Per CTO.

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

  
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Manish Kumawat

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M/s Moil Limited

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

Reporting Date : 06/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/05	Sampling Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/05/2024
Sample Type:	Waste Water	Analysis Start Date:	29/05/2024
Sample Description:	STP Inlet (WW)	Analysis End Date:	05/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.42	-	IS 3025- Part 11	-
2	Total Suspended Solids	61.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	130.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	2.7	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	41	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

*Khushbu*  
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*Manish Kumawat*  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/535D/93M/06

M/s Moil Limited

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

Reporting Date : 06/06/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/06	Sampling Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/05/2024
Sample Type:	Waste Water	Analysis Start Date:	29/05/2024
Sample Description:	STP Outlet(WW)	Analysis End Date:	05/06/2024
Sample Quantity:	2.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.58	-	IS 3025- Part 11	NS
2	Total Suspended Solids	25.00	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	80.00	mg/L	APHA 23rd Edn 5220 B	100
5	Dissolved Oxygen	3.6	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	24	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms As Per CTO.

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

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/535D/93M/07

Reporting Date: 06/06/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/07	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Administrative Building	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.43	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)	14.73	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.14	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.94	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)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Report Number : GGMPL/PN/535D/93M/07

Reporting Date: 06/06/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/07	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Administrative Building	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	39	%	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	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By  
Khushbu Suthar



--- End of Report ---

Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/535D/93M/08

M/s Moil Limited

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

Reporting Date: 06/06/2024



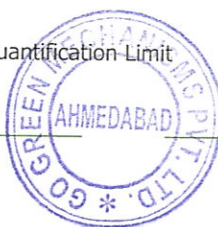
### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/08	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.98	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	19.20	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.94	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)	1.03	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

*Khushbu*  
Analyzed By  
Khushbu Suthar



*Manish*  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/535D/93M/08

Reporting Date: 06/06/2024

M/s Moil Limited

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

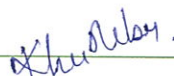


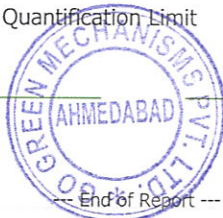
### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/08	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Vertical Shaft-1	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	41	%	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	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Khushbu Suthar



  
Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/535D/93M/09

Reporting Date: 06/06/2024

M/s Moil Limited

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



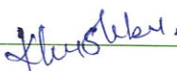
TC-7073

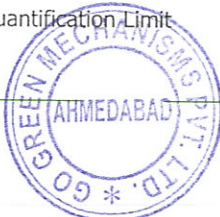
### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/09	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near DSU Plant	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.19	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)	16.70	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	24.21	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  
Khushbu Sutkar



  
Authorized Signatory  
Manish Kumawat

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Report Number : GGMPL/PN/535D/93M/09

Reporting Date: 06/06/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/09	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near DSU Plant	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	40	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/535D/93M/10

Reporting Date: 06/06/2024

M/s Moil Limited

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



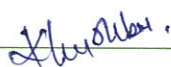
TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/535D/93M/10	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Compressor Room	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.58	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.80	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.03	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.58	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.37	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.51	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)	1.043	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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



Analyzed By  
Khushbu Sutthar



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/535D/93M/10

Reporting Date: 06/06/2024

M/s Moil Limited

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

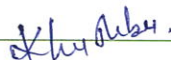


### SAMPLE DETAILS


Lab ID:	Lab/PN/535D/93M/10	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Compressor Room	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	43	%	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	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Khushbu Sutthar



  
Authorized Signatory  
Manish Kumawat

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**Head Office & Lab**

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

**CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/535D/93M/11

Reporting Date: 06/06/2024

M/s Moil Limited

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



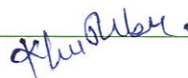
**SAMPLE DETAILS**

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 26/05/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/535D/93 M/11A	Near Ventilation	Day Time	dB(A)Leq	IS 4758	62.4	-
2	Lab/PN/535D/93 M/11B	Near Vertical Shaft-01	Day Time	dB(A)Leq	IS 4758	66.4	-
3	Lab/PN/535D/93 M/11C	Near DSU Plant	Day Time	dB(A)Leq	IS 4758	56.7	-
4	Lab/PN/535D/93 M/11D	Near Compressor Room	Day Time	dB(A)Leq	IS 4758	67.7	-

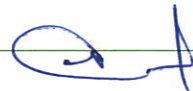
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By  
Khushbu Sutkar



--- End of Report ---



Authorized Signatory  
Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/538D/93M/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/538D/93M/01	Sampling Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/05/2024
Sample Type:	Ground Water	Analysis Start Date:	29/05/2024
Sample Description:	Administrative Building (Borewell) (GW)	Analysis End Date:	04/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

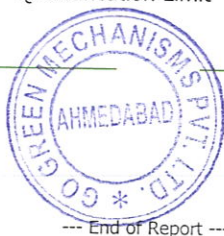
Specification:

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

AL & PL as per IS 10500.

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

*Nidhi*  
Analyzed By  
Nidhi Shah



--- End of Report ---

*HS*  
Authorized Signatory  
Dr. Haragobinda Srichandan

Page No : 1/1

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### Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/536D/93N/01

M/s Moil Limited

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

Reporting Date : 04/06/2024




### SAMPLE DETAILS

Lab ID:	Lab/PN/536D/93N/01	Sampling Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/05/2024
Sample Type:	Water	Analysis Start Date:	28/05/2024
Sample Description:	Mine Pit Water(Old Durga Pit Water) (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	160.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	34.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	29.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.41	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.15	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	35.10	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	250.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	12.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/536D/93N/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/536D/93N/01	Sampling Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/05/2024
Sample Type:	Water	Analysis Start Date:	28/05/2024
Sample Description:	Mine Pit Water(Old Durga Pit Water) (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

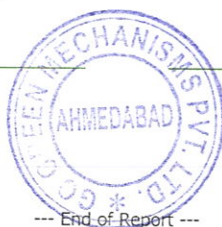
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	165.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.17	mg/L	APHA 23rd Edn 4500 NO <sub>3</sub> B	45	No Relaxation

AL & PL As Per IS 10500

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/536D/93N/02

Reporting Date: 04/06/2024

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/536D/93N/02	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Old OCF	Analysis start- End Date:	28/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.10	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	20.42	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.39	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/536D/93N/02

Reporting Date: 04/06/2024

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/536D/93N/02	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Old OCF	Analysis start- End Date:	28/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	37	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	29	%	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	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/536D/93N/03

Reporting Date: 04/06/2024

M/s Moil Limited

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




### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 26/05/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/536D/93 N/03A	Near Old OCF	Day Time	dB(A)Leq	IS 4758	59.7	-

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

  
Analyzed By  
Priyanka Shrimali



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/539D/93N/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/539D/93N/01	Sampling Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/05/2024
Sample Type:	Ground Water	Analysis Start Date:	29/05/2024
Sample Description:	Mine Pit Water(Old Durga Pit Water) (GW)	Analysis End Date:	04/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

*Nidhi*  
Analyzed By  
Nidhi Shah



*178*  
Authorized Signatory  
Dr. Haragobinda Srichandan

--- End of Report ---

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/537D/930/01

M/s Moil Limited

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

Reporting Date : 06/06/2024



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/537D/930/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Staff Colony Borewell (GW)

Sampling Date: 26/05/2024  
Sample Receipt Date: 28/05/2024  
Analysis Start Date: 29/05/2024  
Analysis End Date: 05/06/2024

Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

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

Sr.No	Parameters	Results	Unit	Test Method	Specification:	
					AL	PL
1	Alkalinity as CaCO <sub>3</sub>	130.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	48.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.54	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.39	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	39.78	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	276.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

*Pidhi*  
Analyzed By  
Nidhi Shah



*[Signature]*  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/537D/930/01

M/s Moil Limited

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

Reporting Date : 06/06/2024



### SAMPLE DETAILS

Lab ID: Lab/PN/537D/930/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Staff Colony Borewell (GW)  
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

Sampling Date: 26/05/2024  
Sample Receipt Date: 28/05/2024  
Analysis Start Date: 29/05/2024  
Analysis End Date: 05/06/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

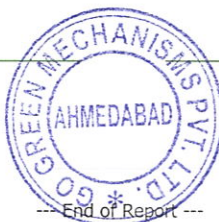
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	164.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.52	mg/L	APHA 23rd Edn 4500 NO <sub>3</sub> B	45	No Relaxation

AL & PL as per IS 10500.

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

*Nidhi*  
Analyzed By  
Nidhi Shah



*Manish*  
Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/537D/930/02

Reporting Date: 06/06/2024

M/s Moil Limited

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

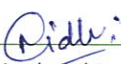


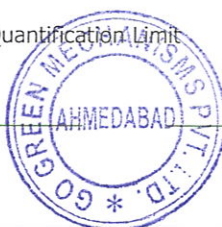
### SAMPLE DETAILS

Lab ID:	Lab/PN/537D/930/02	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Staff Colony	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.18	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)	9.55	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.05	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Nidhi Shah



  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/537D/930/02

Reporting Date: 06/06/2024

M/s Moil Limited

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



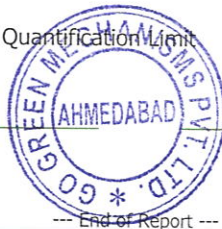
### SAMPLE DETAILS

Lab ID:	Lab/PN/537D/930/02	Sampling Start Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	28/05/2024
Sample Description:	Near Staff Colony	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	38	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	29	%	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	10.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Nidhi*  
Analyzed By  
Nidhi Shah



*Manish*  
Authorized Signatory  
Manish Kumawat

Page No : 2/2

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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/537D/930/03

Reporting Date: 06/06/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Laboratory Representative

Sampling Date:

26/05/2024

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/537D/93 O/03A	Near Staff Colony	Day Time	dB(A)Leq	IS 4758	55.8	-

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



Analyzed By  
Nidhi Shah



--- End of Report ---



Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/540D/930/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/540D/930/01	Sampling Date:	26/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	28/05/2024
Sample Type:	Ground Water	Analysis Start Date:	29/05/2024
Sample Description:	Staff Colony Borewell (GW)	Analysis End Date:	04/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

*Nidhi*  
Analyzed By  
Nidhi Shah



*H8*  
Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/562D/93P/01

M/s Moil Limited

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

Reporting Date : 05/06/2024



### SAMPLE DETAILS

Lab ID: Lab/PN/562D/93P/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: VT Center Borewell (G.W)

Sampling Date: 27/05/2024  
Sample Receipt Date: 29/05/2024  
Analysis Start Date: 29/05/2024  
Analysis End Date: 04/06/2024

Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

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

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	195.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	94.18	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	90.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.49	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.98	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	85.60	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	430.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/562D/93P/01

M/s Moil Limited

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

Reporting Date : 05/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/562D/93P/01	Sampling Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/05/2024
Sample Type:	Water	Analysis Start Date:	29/05/2024
Sample Description:	VT Center Borewell (G.W)	Analysis End Date:	04/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	325.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.88	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

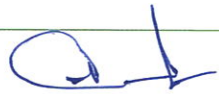
AL & PL As Per IS 10500

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

  
Analyzed By  
Priyanka Shrimali



--- End of Report ---

  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/562D/93P/02

Reporting Date: 05/06/2024

M/s Moil Limited

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

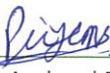


### SAMPLE DETAILS

Lab ID:	Lab/PN/562D/93P/02	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Near VT Center	Analysis start- End Date:	29/05/2024-04/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.09	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.32	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.28	µg/m3	IS 5182- Part 9	180
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)	1.01	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  
Priyanka Shrimali



  
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Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/562D/93P/02

Reporting Date: 05/06/2024

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/562D/93P/02	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Near VT Center	Analysis start- End Date:	29/05/2024-04/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	41	%	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	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

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Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/562D/93P/03

Reporting Date: 05/06/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 27/05/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/562D/93 P/03A	Near VT Center	Day Time	dB(A)Leq	IS 4758	58.4	-

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

  
Analyzed By  
Priyanka Shrimali



  
Authorized Signatory  
Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/565D/93P/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



### SAMPLE DETAILS


Lab ID:	Lab/PN/565D/93P/01	Sampling Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/05/2024
Sample Type:	Ground Water	Analysis Start Date:	30/05/2024
Sample Description:	VT Center Borewell (GW)	Analysis End Date:	04/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

  
Analyzed By  
Nidhi Shah



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Dr. Haragobinda Srichandan

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/563D/93Q/01

M/s Moil Limited

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

Reporting Date : 07/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/563D/93Q/01	Sampling Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/05/2024
Sample Type:	Water	Analysis Start Date:	30/05/2024
Sample Description:	End Point of Railway Siding (GW)	Analysis End Date:	06/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

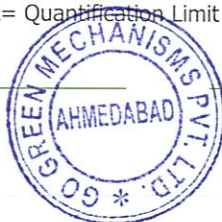
					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	146.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	58.52	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	68.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.43	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.71	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.29	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	56.36	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	600
10	Total Dissolved Solids (TDS)	342.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	11.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500

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

*[Signature]*

Analyzed By  
Jhanvi Chhasatiya



*[Signature]*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/563D/93Q/01

M/s Moil Limited

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

Reporting Date : 07/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/563D/93Q/01	Sampling Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/05/2024
Sample Type:	Water	Analysis Start Date:	30/05/2024
Sample Description:	End Point of Railway Siding (GW)	Analysis End Date:	06/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	223.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.26	mg/L	APHA 23rd Edn 4500 NO <sub>3</sub> B	45	No Relaxation

AL & PL as per IS 10500

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

*Jhanvi*

Analyzed By  
Jhanvi Chhasatiya



--- End of Report ---

*Manish*

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/563D/93Q/02

Reporting Date : 07/06/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/563D/93Q/02	Sampling Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/05/2024
Sample Type:	Water	Analysis Start Date:	30/05/2024
Sample Description:	Nr Weight Bridge (GW)	Analysis End Date:	06/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

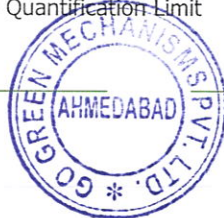
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	52.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	65.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.52	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.61	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	50.31	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	314.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL IS 10500

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

*Jhanvi*

Analyzed By  
Jhanvi Chhasatiya



*Manish*

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/563D/93Q/02

M/s Moil Limited

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

Reporting Date : 07/06/2024



### SAMPLE DETAILS

Lab ID: Lab/PN/563D/93Q/02  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Nr Weight Bridge (GW)

Sampling Date: 27/05/2024  
Sample Receipt Date: 29/05/2024  
Analysis Start Date: 30/05/2024  
Analysis End Date: 06/06/2024

Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

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

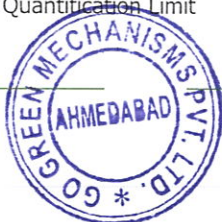
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	210.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.16	mg/L	APHA 23rd Edn 4500 NO <sub>3</sub> B	45	No Relaxation

AL & PL IS 10500

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

Analyzed By  
Jhanvi Chhasatiya



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/563D/93Q/03

Reporting Date: 07/06/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/563D/93Q/03	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	30/05/2024-06/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	79.63	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.11	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.23	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.40	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

*Jhanvi*  
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Jhanvi Chhasatiya



*Manish*  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/563D/93Q/03

Reporting Date: 07/06/2024

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/563D/93Q/03	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	End Point of Railway Siding	Analysis start- End Date:	30/05/2024-06/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	39	%	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	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Jhanvi Chhasatiya



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Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/563D/93Q/04

Reporting Date: 07/06/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/563D/93Q/04	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Nr Weigh Bridge	Analysis start- End Date:	30/05/2024-06/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	75.49	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.95	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.29	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.49	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.40	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)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*Jhanvi*

Analyzed By  
Jhanvi Chhasatiya



*Manish*

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/563D/93Q/04

Reporting Date: 07/06/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/563D/93Q/04	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Nr Weigh Bridge	Analysis start- End Date:	30/05/2024-06/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	46	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	38	%	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	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Jhanvi*  
Analyzed By  
Jhanvi Chhasatiya



*Manish*  
Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/563D/93Q/05

Reporting Date: 07/06/2024

M/s Moil Limited

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




### SAMPLE DETAILS

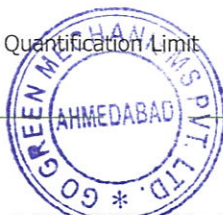
Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 27/05/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/563D/93Q/05A	End point of Railway Siding	Day Time	dB(A)Leq	IS 4758	62.4	-
2	Lab/PN/563D/93Q/05B	Near Weigh Bridge	Day Time	dB(A)Leq	IS 4758	68.9	-

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

  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/566D/93Q/01

M/s Moil Limited

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

Reporting Date : 05/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/566D/93Q/01	Sampling Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/05/2024
Sample Type:	Ground Water	Analysis Start Date:	30/05/2024
Sample Description:	End Point of Railway Siding (Borewell Water) (GW)	Analysis End Date:	05/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

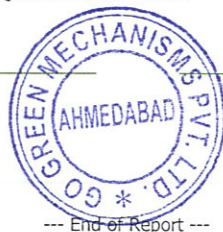
Specification:

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

AL & PL as per IS 10500.

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

*Nidhi*  
Analyzed By  
Nidhi Shah



*118*  
Authorized Signatory  
Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/566D/93Q/02

M/s Moil Limited

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

Reporting Date : 05/06/2024



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/566D/93Q/02	Sampling Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/05/2024
Sample Type:	Ground Water	Analysis Start Date:	30/05/2024
Sample Description:	Weigh Bridge (Borewell Water) (GW)	Analysis End Date:	05/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

*Nidhi*  
Analyzed By  
Nidhi Shah



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Dr. Haragobinda Srichandan

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/564D/95U/01

M/s Moil Limited

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

Reporting Date : 06/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/564D/95U/01	Sampling Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/05/2024
Sample Type:	Waste Water	Analysis Start Date:	29/05/2024
Sample Description:	Waste Water of Mine Pit Water	Analysis End Date:	05/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	6.91	-	IS 3025- Part 11	-
2	Total Suspended Solids	36.00	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	5.9	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	34.00	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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



Analyzed By  
Jadav Vishal



--- End of Report ---



Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/564D/95U/02

M/s Moil Limited

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

Reporting Date : 06/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/564D/95U/02	Sampling Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/05/2024
Sample Type:	Ground Water	Analysis Start Date:	29/05/2024
Sample Description:	Open Dugwell	Analysis End Date:	05/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	218.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	34.47	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	66.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.41	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.30	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.23	-	IS 3025- Part 11	6.5 to 8.5	No relaxation
9	Sulphate	51.87	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	352.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	186.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL as Per IS 10500

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

Analyzed By  
Jadav Vishal



Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/564D/95U/02

M/s Moil Limited

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

Reporting Date : 06/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/564D/95U/02	Sampling Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/05/2024
Sample Type:	Ground Water	Analysis Start Date:	29/05/2024
Sample Description:	Open Dugwell	Analysis End Date:	05/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

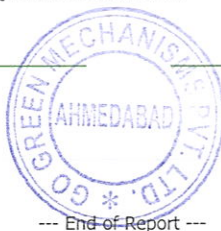
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	5.61	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  
Jadav Vishal



Authorized Signatory  
Manish Kumawat

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/564D/95U/03

Reporting Date: 06/06/2024

M/s Moil Limited

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



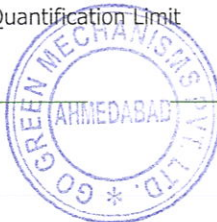
### SAMPLE DETAILS

Lab ID:	Lab/PN/564D/95U/03	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.52	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)	16.64	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.70	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	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)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/564D/95U/03

Reporting Date: 06/06/2024

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/564D/95U/03	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	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	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/564D/95U/04

Reporting Date: 06/06/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/564D/95U/04	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Waste Dump Side	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.69	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)	17.37	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.22	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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**Head Office & Lab**

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

**CERTIFICATE OF ANALYSIS**

Report Number : GGMPL/PN/564D/95U/04

Reporting Date: 06/06/2024

M/s Moil Limited

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



TC-7073

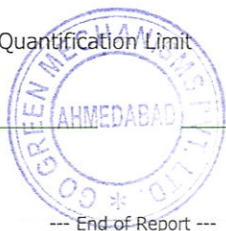
**SAMPLE DETAILS**

Lab ID:	Lab/PN/564D/95U/04	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Waste Dump Side	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	49	%	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	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Jadav Vishal



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Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/564D/95U/05

Reporting Date: 06/06/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/564D/95U/05	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.66	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.94	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.39	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.39	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.12	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Jadav Vishal



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M/s Moil Limited

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



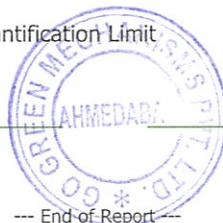
### SAMPLE DETAILS

Lab ID:	Lab/PN/564D/95U/05	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	41	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	50	%	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	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Jadav Vishal



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/564D/95U/06

Reporting Date: 06/06/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/564D/95U/06	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Mine Road (Near Khasra No.19)	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	77.85	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.33	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.87	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/564D/95U/06

Reporting Date: 06/06/2024

M/s Moil Limited

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



TC-7073

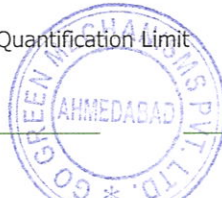
### SAMPLE DETAILS

Lab ID:	Lab/PN/564D/95U/06	Sampling Start Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/05/2024
Sample Description:	Mine Road (Near Khasra No.19)	Analysis start- End Date:	29/05/2024-05/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	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	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By  
Jadav Vishal



--- End of Report ---

Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/564D/95U/07

Reporting Date: 06/06/2024

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 27/05/2024  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/564D/95 U/07/A	Near Mine Office	Day Time	dB(A)Leq	IS 4758	54.1	-
2	Lab/PN/564D/95 U/07/B	Waste Dump Area	Day Time	dB(A)Leq	IS 4758	60.2	-
3	Lab/PN/564D/95 U/07/C	Near Mine Pit	Day Time	dB(A)Leq	IS 4758	59.8	-
4	Lab/PN/564D/95 U/07/D	Main Road Near Khasra No. 19	Day Time	dB(A)Leq	IS 4758	51.8	-

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Jadav Vishal



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/567D/95U/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/567D/95U/01	Sampling Date:	27/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/05/2024
Sample Type:	Ground Water	Analysis Start Date:	30/05/2024
Sample Description:	Open Dugwell (GW)	Analysis End Date:	04/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

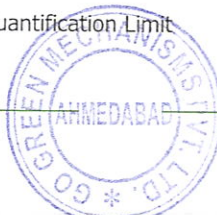
Specification:

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

AL & PL as per IS 10500.

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

*Nidhi*  
Analyzed By  
Nidhi Shah



*H8*  
Authorized Signatory  
Dr. Haragobinda Srichandan

--- End of Report ---

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