

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/01

Reporting Date : 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID: Lab/PN/1990C/79A/V3/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Open Dugwell No.3 (GW)  
Sample Quantity: 4 L  
Sample Condition: Satisfactory

Sampling Date: 28/12/2023  
Sample Receipt Date: 01/01/2024  
Analysis Start Date: 02/01/2024  
Analysis End Date: 08/01/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

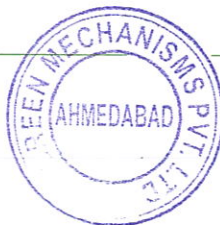
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.28	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	172.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	48.89	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	54.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (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	17.01	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	35.51	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	318.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	192.00	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

*Nidhi*

Analyzed By  
Nidhi Shah



*P. B. Patel*

Authorized Signatory  
Payal Patel

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Report Number: GGMPL/PN/1990C/79A/V3/01

Reporting Date : 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/1990C/79A/V3/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Open Dugwell No.3 (GW)  
Sample Quantity: 4 L  
Sample Condition: Satisfactory

Sampling Date: 28/12/2023  
Sample Receipt Date: 01/01/2024  
Analysis Start Date: 02/01/2024  
Analysis End Date: 08/01/2024  
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	3.84	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

*Nidhi*

Analyzed By  
Nidhi Shah



--- End of Report ---

*P. B. Patel*

Authorized Signatory  
Payal Patel

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#### Head Office & Lab

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/01A

Reporting Date : 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS


Lab ID:	Lab/PN/1990C/79A/V3/01	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Open Dugwell No.3 (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

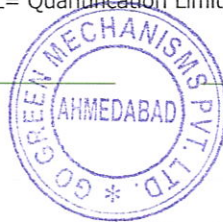
Specification:

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

AL & PL As Per IS 10500.

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

  
Analyzed By  
Nidhi Shah



--- End of Report ---

  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/02

Reporting Date : 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1990C/79A/V3/02	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Mine Discharge Water Block No. A-B Pit (WW)	Analysis End Date:	08/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.42	-	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	80.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	28	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

*Nidhi*

Analyzed By  
Nidhi Shah



--- End of Report ---

*P. B. Patel*

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/03

Reporting Date : 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1990C/79A/V3/03	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.36	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	168.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	58.52	mg/L	APHA 23rd Edn 3500 Ca B	250	1000
4	Chloride	56.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.30	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	12.63	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	38.25	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	328.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	194.00	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.

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*Nidhi*  
Analyzed By  
Nidhi Shah



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Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/03

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

Reporting Date : 09/01/2024



### SAMPLE DETAILS


Lab ID:	Lab/PN/1990C/79A/V3/03	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

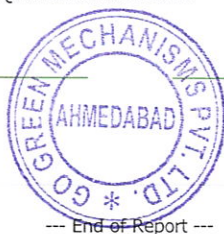
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	5.28	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

  
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Nidhi Shah



  
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Reporting Date : 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID:	Lab/PN/1990C/79A/V3/03	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	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

*Pidhi*

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--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/04

Reporting Date : 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1990C/79A/V3/04	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.36	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	155.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	52.90	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	59.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.36	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	13.12	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	36.49	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	313.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	186.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

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Report Number: GGMPL/PN/1990C/79A/V3/04

Reporting Date : 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1990C/79A/V3/04	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.50	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

*Nidhi*

Analyzed By  
Nidhi Shah



*P.B.P.*

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/04A

Reporting Date : 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID:	Lab/PN/1990C/79A/V3/04	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	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

*Nidhi*  
Analyzed By  
Nidhi Shah



--- End of Report ---

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1990C/79A/V3/05

Reporting Date: 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1990C/79A/V3/05	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	02/01/2024-08/01/2024
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)	71.46	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.39	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.49	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)	0.99	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*Pidhi*

Analyzed By  
Nidhi Shah



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1990C/79A/V3/05

Reporting Date: 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1990C/79A/V3/05	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	02/01/2024-08/01/2024
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	29	°C	GGMPL/SOP/MP/01	-
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	-
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.7	m/s	GGMPL/SOP/MP/01:2020	-

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

*Nidhi Shah*

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1990C/79A/V3/06

Reporting Date: 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

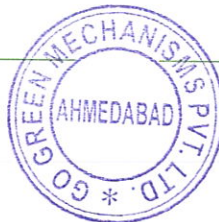
Lab ID:	Lab/PN/1990C/79A/V3/06	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Guest House	Analysis start- End Date:	02/01/2024-08/01/2024
Env. Cond.-Sampling:	Ambient 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)	70.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.29	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.31	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.49	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)	0.98	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

*Nidhi*

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Nidhi Shah



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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1990C/79A/V3/06

Reporting Date: 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

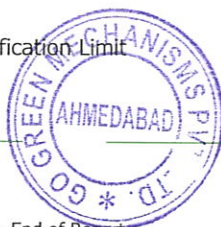
Lab ID:	Lab/PN/1990C/79A/V3/06	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Guest House	Analysis start- End Date:	02/01/2024-08/01/2024
Env. Cond.-Sampling:	Ambient 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	28	°C	GGMP/L/SOP/MP/01	-
13	Relative Humidity	56	%	GGMP/L/SOP/MP/01	-
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.7	m/s	GGMP/L/SOP/MP/01:2020	-

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



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1990C/79A/V3/07

Reporting Date: 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1990C/79A/V3/07	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Tirodi Village	Analysis start- End Date:	02/01/2024-08/01/2024
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)	66.98	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)	15.34	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.26	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.33	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	13.88	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.99	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1990C/79A/V3/07

Reporting Date: 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1990C/79A/V3/07	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Tirodi Village	Analysis start- End Date:	02/01/2024-08/01/2024
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	29	°C	GGMPL/SOP/MP/01	
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.8	m/s	GGMPL/SOP/MP/01:2020	

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

*Nidhi*

Analyzed By  
Nidhi Shah



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1990C/79A/V3/08

Reporting Date: 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1990C/79A/V3/08	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Officer Colony	Analysis start- End Date:	02/01/2024-08/01/2024
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)	69.60	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)	14.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.36	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.41	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.49	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)	0.98	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

*Nidhi*  
Analyzed By  
Nidhi Shah



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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1990C/79A/V3/08

Reporting Date: 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

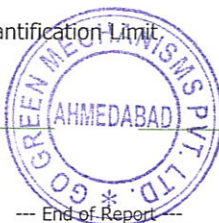
Lab ID:	Lab/PN/1990C/79A/V3/08	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Officer Colony	Analysis start- End Date:	02/01/2024-08/01/2024
Env. Cond.-Sampling:	Ambient 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	30	°C	GGMPL/SOP/MP/01	
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.9	m/s	GGMPL/SOP/MP/01:2020	

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



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Nidhi Shah





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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1990C/79A/V3/09

Reporting Date: 09/01/2024

M/s Moil Limited

Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

28/12/2023

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1990C/7 9A/V3/09A	Nr office Permisses	Day Time	dB(A)Leq	IS 4758	61.5	
2	Lab/PN/1990C/7 9A/V3/09B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	68.5	
3	Lab/PN/1990C/7 9A/V3/09C	Jack Hammer drill Machine	Day Time	dB(A)Leq	IS 4758	70.2	
4	Lab/PN/1990C/7 9A/V3/09D	Near Excavator	Day Time	dB(A)Leq	IS 4758	71.9	

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*Nidhi*

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Nidhi Shah



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1991C/79A/V3/01

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date : 13/01/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/01	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	12/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.46	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	120.00	mg/L	APHA 23rd Edn 2320 B	200	6000
3	Calcium as Ca	26.05	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	41.98	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	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	27.86	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	220.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	145.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

Al & PL As Per IS 10500

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

Analyzed By  
Dishant Patel



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1991C/79A/V3/01

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date : 13/01/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/01	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	12/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.84	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AI & PL As Per IS 10500

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1991C/79A/V3/01A

Reporting Date : 13/01/2024

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/01	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	12/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

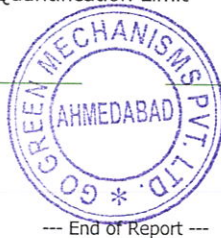
Specification:

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

AI & PL As Per IS 10500

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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/1991C/79A/V3/02

Reporting Date : 13/01/2024

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/02	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	12/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.15	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	117.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	27.25	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)	0.30	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	29.23	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	245.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	148.00	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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1991C/79A/V3/02

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date : 13/01/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/02	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	12/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.19	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1991C/79A/V3/02A

Reporting Date : 13/01/2024

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/02	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	12/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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

Analyzed By  
Dishant Patel



Authorized Signatory  
Payal Patel

--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1991C/79A/V3/03

Reporting Date: 13/01/2024

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/03	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Sampling Room	Analysis start- End Date:	02/01/2024-12/01/2024
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)	74.39	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)	21.90	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	32.36	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.80	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.72	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.099	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  
Dishant Patel




Authorized Signatory  
Payal Patel

Page No : 1/2

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#### Head Office & Lab

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1991C/79A/V3/03

Reporting Date: 13/01/2024

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/03	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Sampling Room	Analysis start- End Date:	02/01/2024-12/01/2024
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	752	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.9	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Dishant Patel



--- End of Report ---

  
Authorized Signatory  
Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1991C/79A/V3/04

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)

Reporting Date: 13/01/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/04	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Dumping Area	Analysis start- End Date:	02/01/2024-12/01/2024
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)	73.52	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)	19.14	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.19	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.72	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.72	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By  
Dishant Patel



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Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1991C/79A/V3/04

Reporting Date: 13/01/2024

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1991C/79A/V3/04	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Dumping Area	Analysis start- End Date:	02/01/2024-12/01/2024
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	753	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.8	m/s	GGMPL/SOP/MP/01:2020	NS

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



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Report Number: GGMPL/PN/1991C/79A/V3/05

Reporting Date: 13/01/2024

M/s Moil Limited

Tirodi Manganese Mines L2=37.090 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 28/12/2023

Sample By Laboratory Representative

Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1991C/7 9A/V3/05A	Near Sampling Room	Day Time	dB(A)Leq	IS 4758	60.8	-
2	Lab/PN/1991C/7 9A/V3/05B	Near Dumping Area	Day Time	dB(A)Leq	IS 4758	64.6	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992C/79A/V3/01

Reporting Date : 11/01/2024

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/1992C/79A/V3/01	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	01/01/2024
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	10/01/2024
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	pH at 25 °C	7.42	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	143	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.5	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	51.5	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.30	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	23.56	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	279	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	171.0	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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



Analyzed By  
Rajat Chauhan



Authorized Signatory  
Payal Patel

Page No : 1/2

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#### Head Office & Lab

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992C/79A/V3/01

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)

Reporting Date : 11/01/2024



### SAMPLE DETAILS

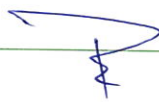
Lab ID:	Lab/PN/1992C/79A/V3/01	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	01/01/2024
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	10/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.5	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	2.84	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  
Rajat Chauhan



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Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1992C/79A/V3/01A

Reporting Date : 11/01/2024

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS


Lab ID:	Lab/PN/1992C/79A/V3/01	Sampling Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	01/01/2024
Sample Type:	Water	Analysis Start Date:	01/01/2024
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	10/01/2024
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
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	-	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	-	Absent

AL & PL as per IS 10500.

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

  
Analyzed By  
Rajat Chauhan



  
Authorized Signatory  
Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1992C/79A/V3/02

Reporting Date: 11/01/2024

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)



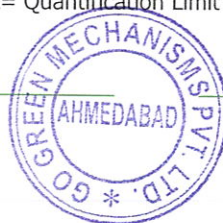
### SAMPLE DETAILS

Lab ID:	Lab/PN/1992C/79A/V3/02	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/01/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	01/01/2024-10/01/2024
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)	70.66	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.35	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.75	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.06	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1992C/79A/V3/02

Reporting Date: 11/01/2024

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)



TC-7073

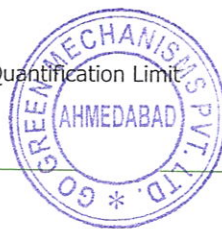
### SAMPLE DETAILS

Lab ID:	Lab/PN/1992C/79A/V3/02	Sampling Start Date:	28/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	01/01/2024
Sample Type:	Ambient Air	Sample Receipt Date:	01/01/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	01/01/2024-10/01/2024
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	47	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By  
Rajat Chauhan



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Payal Patel

Page No : 2/2

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### Head Office & Lab

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1992C/79A/V3/03

Reporting Date: 11/01/2024

M/s Moil Limited

Tirodi Manganese Mines L3=4.419 Ha Site Dist. Balaghat (M.P)




### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative


Sampling Date: 28/12/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1992C/79A/V3/03A	Near Pit Office	Day Time	dB(A)Leq	IS 4758	60.3	-

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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009C/06D/V2/01

Reporting Date : 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2009C/06D/V2/01	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	South Railway siding office (G.W)	Analysis End Date:	11/01/2024
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	pH at 25 °C	7.35	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	126	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	28.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	35.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.25	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	15.55	mg/l	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	22.88	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	201	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	135	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

Analyzed By  
Rajat Chauhan



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009C/06D/V2/01

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

Reporting Date : 12/01/2024



### SAMPLE DETAILS

Lab ID: Lab/PN/2009C/06D/V2/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: South Railway siding office (G.W)  
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

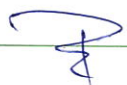
Sampling Date: 29/12/2023  
Sample Receipt Date: 02/01/2024  
Analysis Start Date: 02/01/2024  
Analysis End Date: 11/01/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.6	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.51	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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

  
Analyzed By  
Rajat Chauhan



  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009C/06D/V2/01A

Reporting Date : 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

### SAMPLE DETAILS

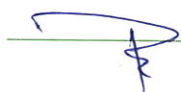
Lab ID:	Lab/PN/2009C/06D/V2/01	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	South Railway siding office (G.W)	Analysis End Date:	11/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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



Analyzed By  
Rajat Chauhan



--- End of Report ---



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Payal Patel

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M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

Reporting Date : 12/01/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/2009C/06D/V2/02	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	End of South Railway Siding ((G.W)	Analysis End Date:	11/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

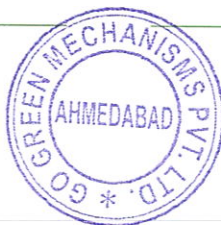
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.32	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	145	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	35.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	61.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.38	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	28.6	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	252	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	168	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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



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Rajat Chauhan




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Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009C/06D/V2/02

Reporting Date : 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2009C/06D/V2/02	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	End of South Railway Siding ((G.W)	Analysis End Date:	11/01/2024
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	0.8	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.82	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  
Rajat Chauhan



--- End of Report ---



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Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009C/06D/V2/02A

Reporting Date : 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)

### SAMPLE DETAILS

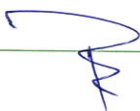
Lab ID:	Lab/PN/2009C/06D/V2/02	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	End of South Railway Siding ((G.W)	Analysis End Date:	11/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

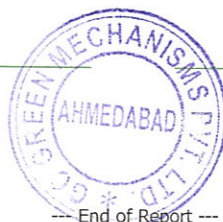
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	-	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	-	Absent

AL & PL as per IS 10500.

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



Analyzed By  
Rajat Chauhan



--- End of Report ---



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Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2009C/06D/V2/03

Reporting Date: 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2009C/06D/V2/03	Sampling Start Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/01/2024
Sample Description:	South Railway Siding Office	Analysis start- End Date:	02/01/2024-11/01/2024
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)	66.41	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)	13.83	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.51	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.06	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2009C/06D/V2/03

Reporting Date: 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2009C/06D/V2/03	Sampling Start Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/01/2024
Sample Description:	South Railway Siding Office	Analysis start- End Date:	02/01/2024-11/01/2024
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.2	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/2009C/06D/V2/04

Reporting Date: 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



TC-7073

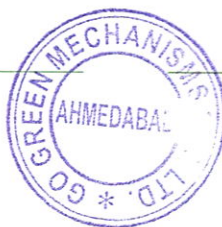
### SAMPLE DETAILS

Lab ID:	Lab/PN/2009C/06D/V2/04	Sampling Start Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/01/2024
Sample Description:	End of South Railway Siding	Analysis start- End Date:	02/01/2024-11/01/2024
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)	65.16	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)	14.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.54	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.47	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By  
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### Head Office & Lab

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2009C/06D/V2/04

Reporting Date: 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2009C/06D/V2/04	Sampling Start Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/01/2024
Sample Description:	End of South Railway Siding	Analysis start- End Date:	02/01/2024-11/01/2024
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By  
Rajat Chauhan



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2009C/06D/V2/05

Reporting Date: 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines South Railway Siding Dist. Balaghat (M.P)



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 29/12/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2009C/06D/V2/05A	South Railway Siding Office	9:20	dB(A)Leq	IS 4758	62.3	-
2	Lab/PN/2009C/06D/V2/05B	End of south railway siding	9:50	dB(A)Leq	IS 4758	58.9	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010C/06S/V2/01

Reporting Date : 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2010C/06S/V2/01	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	North Railway siding office (GW)	Analysis End Date:	11/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.23	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	135.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	38.1	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	81.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.32	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	23.57	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	29.97	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	292	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	192	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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



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Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010C/06S/V2/01

Reporting Date : 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2010C/06S/V2/01	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	North Railway siding office (GW)	Analysis End Date:	11/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.6	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.59	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  
Rajat Chauhan



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Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010C/06S/V2/01A

Reporting Date : 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID:	Lab/PN/2010C/06S/V2/01	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	North Railway siding office (GW)	Analysis End Date:	11/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

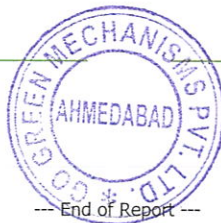
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	-	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	-	Absent

AL & PL as per IS 10500.

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



Analyzed By  
Rajat Chauhan



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Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010C/06S/V2/02

Reporting Date : 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2010C/06S/V2/02	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	End of North Railway Siding	Analysis End Date:	11/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.35	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	144	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	49.7	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	106.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.26	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	27.7	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	38.45	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	345	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	238	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

Analyzed By  
Rajat Chauhan



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010C/06S/V2/02

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

Reporting Date : 12/01/2024



### SAMPLE DETAILS

Lab ID:	Lab/PN/2010C/06S/V2/02	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	End of North Railway Siding	Analysis End Date:	11/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

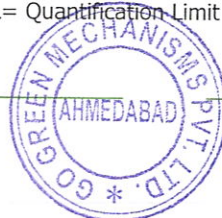
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.2	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.53	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  
Rajat Chauhan



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2010C/06S/V2/02A

Reporting Date : 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID:	Lab/PN/2010C/06S/V2/02	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	End of North Railway Siding	Analysis End Date:	11/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

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Report Number : GGMPL/PN/2010C/06S/V2/03

Reporting Date: 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2010C/06S/V2/03	Sampling Start Date:	29/12/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/01/2024
Sample Description:	North Railway Siding Office	Analysis start- End Date:	02/01/2024-11/01/2024
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)	63.08	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)	11.90	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	BQL (QL=5)	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.031	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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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2010C/06S/V2/03

Reporting Date: 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)




### SAMPLE DETAILS

Lab ID:	Lab/PN/2010C/06S/V2/03	Sampling Start Date:	29/12/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/01/2024
Sample Description:	North Railway Siding Office	Analysis start- End Date:	02/01/2024-11/01/2024
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	28	°C	GGMPL/SOP/MP/01	NS
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	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2010C/06S/V2/04

Reporting Date: 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)




### SAMPLE DETAILS

Lab ID:	Lab/PN/2010C/06S/V2/04	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/01/2024
Sample Description:	End of North Railway Siding	Analysis start- End Date:	02/01/2024-11/01/2024
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)	67.58	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)	12.37	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.55	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.06	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.00	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2010C/06S/V2/04

Reporting Date: 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2010C/06S/V2/04	Sampling Start Date:	29/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	30/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	02/01/2024
Sample Description:	End of North Railway Siding	Analysis start- End Date:	02/01/2024-11/01/2024
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	29	°C	GGMPL/SOP/MP/01	NS
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	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By  
Rajat Chauhan



Authorized Signatory  
Payal Patel

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Reporting Date: 12/01/2024

M/s Moil Limited

Tirodi Manganese Mines North Railway Siding Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

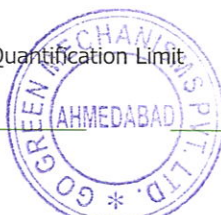
Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 29/12/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2010C/06S/V2/05A	North Railway Siding Office	10:05	dB(A)Leq	IS 4758	59.6	-
2	Lab/PN/2010C/06S/V2/05B	End of North railway siding	10:40	dB(A)Leq	IS 4758	61.1	-

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

Analyzed By  
Rajat Chauhan



--- End of Report ---

Authorized Signatory  
Payal Patel

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