

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/01

Reporting Date : 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/01	Sampling Date:	29/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	02/01/2024
Sample Type:	Waste Water	Analysis Start Date:	02/01/2024
Sample Description:	Mine Discharge Water (WW)	Analysis End Date:	10/01/2024
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	7.39	-	IS 3025- Part 11	-
2	Total Suspended Solids	30.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	65.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	20.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.57	mg/L	APHA 23rd Edn 3120 B	-

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



Analyzed By  
Ritu Shah



--- End of Report ---



Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/02

Reporting Date : 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/02	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:	Mine Office Open Dug Well(GW)	Analysis End Date:	10/01/2024
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	7.62	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	144.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	45.69	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	37.98	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	1.0	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	38.65	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	274.00	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)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

*Ritu Shah*

Analyzed By  
Ritu Shah



*P. B. Patel*

Authorized Signatory  
Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/02

Reporting Date : 11/01/2024

M/s Moil Limited

Sitapature Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/02	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:	Mine Office Open Dug Well(GW)	Analysis End Date:	10/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

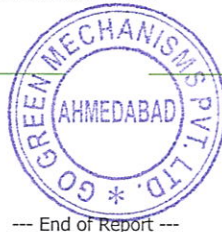
Specification:

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	3.24	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  
Ritu Shah



Authorized Signatory  
Payal Patel

--- End of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/02A

Reporting Date : 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID: Lab/PN/2011C/77A/V3/02  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Mine Office Open Dug Well(GW)  
Sample Quantity: 3.5L  
Sample Condition: Satisfactory


Sampling Date: 29/12/2023  
Sample Receipt Date: 02/01/2024  
Analysis Start Date: 02/01/2024  
Analysis End Date: 10/01/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

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

AL & PL As Per IS 10500.

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

  
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Report Number: GGMPL/PN/2011C/77A/V3/03

Reporting Date : 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/03	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:	Sitapatore Village Open Dugwell (GW)	Analysis End Date:	10/01/2024
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	7.68	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	40.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	37.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	26.22	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	240.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	112.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	12.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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Reporting Date : 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/03	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:	Sitapature Village Open Dugwell (GW)	Analysis End Date:	10/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

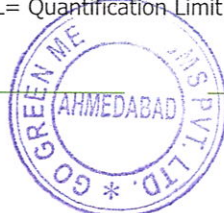
Specification:

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	2.88	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  
Ritu Shah



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Payal Patel

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Reporting Date : 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/03	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:	Sitapatare Village Open Dugwell (GW)	Analysis End Date:	10/01/2024
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/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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/04

Reporting Date : 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID: Lab/PN/2011C/77A/V3/04  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Mine Premises Borewell Water (GW)  
Sample Quantity: 3.5L  
Sample Condition: Satisfactory

Sampling Date: 29/12/2023  
Sample Receipt Date: 02/01/2024  
Analysis Start Date: 02/01/2024  
Analysis End Date: 10/01/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.92	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	150.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	43.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	42.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	13.36	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	27.60	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	227.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	164.00	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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Reporting Date : 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/04	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:	Mine Premises Borewell Water (GW)	Analysis End Date:	10/01/2024
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	2.96	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  
Ritu Shah



  
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Payal Patel

--- End of Report ---

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/04A

Reporting Date : 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/04	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:	Mine Premises Borewell Water (GW)	Analysis End Date:	10/01/2024
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/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

  
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Payal Patel

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2011C/77A/V3/05

Reporting Date: 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/05	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:	Near Mine Office	Analysis start- End Date:	02/01/2024-10/01/2024
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)	67.98	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)	11.27	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.18	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.82	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.88	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)	1.01	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By  
Ritu Shah



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Page No : 1/2

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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/2011C/77A/V3/05

Reporting Date: 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



TC-7073

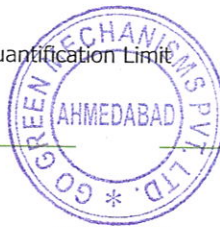
**SAMPLE DETAILS**

Lab ID:	Lab/PN/2011C/77A/V3/05	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:	Near Mine Office	Analysis start- End Date:	02/01/2024-10/01/2024
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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By  
Ritu Shah



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Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2011C/77A/V3/06

Reporting Date: 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)




TC-7073

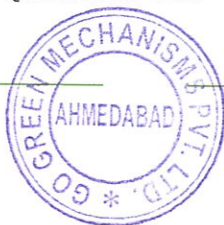
### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/06	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:	Near Mine Pit	Analysis start- End Date:	02/01/2024-10/01/2024
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)	70.33	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.40	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.82	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.30	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)	1.02	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Ritu Shah



  
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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2011C/77A/V3/06

Reporting Date: 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/06	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:	Near Mine Pit	Analysis start- End Date:	02/01/2024-10/01/2024
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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	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/2011C/77A/V3/07

Reporting Date: 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/07	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:	Near Mine Dump	Analysis start- End Date:	02/01/2024-10/01/2024
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)	71.23	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.04	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.20	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.30	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/2011C/77A/V3/07

Reporting Date: 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)




TC-7073

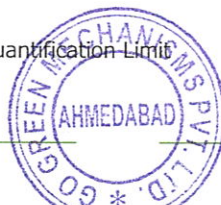
### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/07	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:	Near Mine Dump	Analysis start- End Date:	02/01/2024-10/01/2024
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	29	°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	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Ritu Shah



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2011C/77A/V3/08

Reporting Date: 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)




### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/08	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:	Near Sitapatore Village	Analysis start- End Date:	02/01/2024-10/01/2024
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)	66.41	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.53	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.45	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.30	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)	1.02	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Ritu Shah



  
Authorized Signatory  
Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2011C/77A/V3/08

Reporting Date: 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2011C/77A/V3/08	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:	Near Sitapatore Village	Analysis start- End Date:	02/01/2024-10/01/2024
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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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/2011C/77A/V3/09

Reporting Date: 11/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

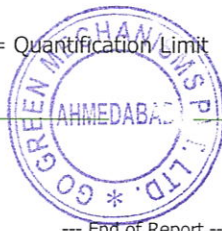
Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

Sampling Date: 29/11/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2011C/7 7A/V3/09A	Near Mine Premises	Day Time	dB(A)Leq	IS 4758	61.2	-
2	Lab/PN/2011C/7 7A/V3/09B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	64.3	-
3	Lab/PN/2011C/7 7A/V3/09C	Drill Machine	Day Time	dB(A)Leq	IS 4758	66.4	-
4	Lab/PN/2011C/7 7A/V3/09D	Near Excavatore	Day Time	dB(A)Leq	IS 4758	68.9	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012C/77B/V3/01

Reporting Date : 10/01/2024

M/s Moil Limited

Sitapature Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2012C/77B/V3/01	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:	Open Dugwell Water Supply (GW)	Analysis End Date:	09/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

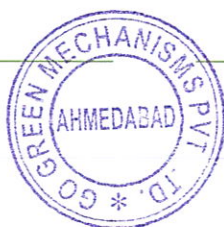
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.63	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	91.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	3	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.37	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	15.06	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	37.07	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	316.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	160.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	16.00	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

*RS*

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Ritu Shah



*P.B.P.*

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012C/77B/V3/01

Reporting Date : 10/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/2012C/77B/V3/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Open Dugwell Water Supply (GW)  
Sample Quantity: 4 L  
Sample Condition: Satisfactory

Sampling Date: 29/12/2023  
Sample Receipt Date: 02/01/2024  
Analysis Start Date: 02/01/2024  
Analysis End Date: 09/01/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

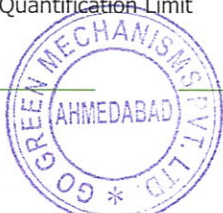
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	3.1	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	4.32	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/2012C/77B/V3/01A

Reporting Date : 10/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID:	Lab/PN/2012C/77B/V3/01	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:	Open Dugwell Water Supply (GW)	Analysis End Date:	09/01/2024
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

  
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Report Number : GGMP/ PN/2012C/77B/V3/02

Reporting Date: 10/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2012C/77B/V3/02	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:	Haul Road	Analysis start- End Date:	02/01/2024-09/01/2024
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)	65.43	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m3	GGMP/ SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.29	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.33	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.30	µg/Nm3	GGMP/ 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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Report Number : GGMPL/PN/2012C/77B/V3/02

Reporting Date: 10/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



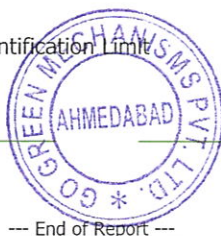
### SAMPLE DETAILS

Lab ID:	Lab/PN/2012C/77B/V3/02	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:	Haul Road	Analysis start- End Date:	02/01/2024-09/01/2024
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	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Ritu Shah



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012C/77B/V3/03

Reporting Date: 10/01/2024

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

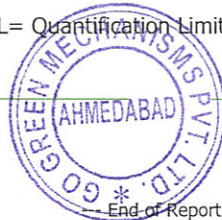
Sampling Instrument : Sound Level Meter  
Sample By Laboratory Representative

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

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2012C/77B/V3/03	Haul Road	Day Time	dB(A)Leq	IS 4758	62.1	75

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/01

Reporting Date : 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/2030C/78A/V3/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: GW Sukali Village Borewell  
Sample Quantity: 3 L  
Sample Condition: Satisfactory

Sampling Date: 30/12/2023  
Sample Receipt Date: 03/01/2024  
Analysis Start Date: 04/01/2024  
Analysis End Date: 12/01/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.24	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	118.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	22.44	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	47.99	mg/L	IS 3025 -Part 32	NaN	NaN
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	1.0	1.5
7	Magnesium as Mg	18.17	mg/L	APHA 23rd Edn 3500 Mg B	30	75
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	23.27	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	600
10	Total Dissolved Solids	222.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	132.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

Al & Pl as Per 10500

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

H8

Analyzed By  
Dr. Haragobinda Srichandan



P.B.A.

Authorized Signatory  
Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/01

Reporting Date : 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/2030C/78A/V3/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: GW Sukali Village Borewell  
Sample Quantity: 3 L  
Sample Condition: Satisfactory

Sampling Date: 30/12/2023  
Sample Receipt Date: 03/01/2024  
Analysis Start Date: 04/01/2024  
Analysis End Date: 12/01/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.70	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AI & PI as Per 10500

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

*H8*  
Analyzed By  
Dr. Haragobinda Srichandan



--- End of Report ---

*P. B. Patel*  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/01A

Reporting Date : 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID: Lab/PN/2030C/78A/V3/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: GW Sukali Village Borewell  
Sample Quantity: 3 L  
Sample Condition: Satisfactory

Sampling Date: 30/12/2023  
Sample Receipt Date: 03/01/2024  
Analysis Start Date: 04/01/2024  
Analysis End Date: 12/01/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

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

AI & PI as Per 10500

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

Analyzed By  
Dr. Haragobinda Srichandan



Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/02

Reporting Date : 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2030C/78A/V3/02	Sampling Date:	30/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/01/2024
Sample Type:	Water	Analysis Start Date:	04/01/2024
Sample Description:	GW Near Pit No. 5 Water Supply	Analysis End Date:	12/01/2024
Sample Quantity:	3 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	7.28	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	124.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	43.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.34	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	13.61	mg/L	APHA 23rd Edn 3500 Mg B	30	75
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	19.33	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	236.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	138.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

Al & Pl as Per 10500

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

  
Analyzed By  
Dr. Haragobinda Srcihandan



  
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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/02

Reporting Date : 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2030C/78A/V3/02	Sampling Date:	30/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/01/2024
Sample Type:	Water	Analysis Start Date:	04/01/2024
Sample Description:	GW Near Pit No. 5 Water Supply	Analysis End Date:	12/01/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	4.84	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

Al & Pl as Per 10500

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

  
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Dr. Haragobinda Srichandan



  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/02A

Reporting Date : 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

### SAMPLE DETAILS

Lab ID:	Lab/PN/2030C/78A/V3/02	Sampling Date:	30/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	03/01/2024
Sample Type:	Water	Analysis Start Date:	04/01/2024
Sample Description:	GW Near Pit No. 5 Water Supply	Analysis End Date:	12/01/2024
Sample Quantity:	3 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/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

Al & Pl as Per 10500

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

  
Analyzed By  
Dr. Haragobinda Srichandan



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/03

Reporting Date : 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/2030C/78A/V3/03  
Sample Drawn By: Laboratory Representative  
Sample Type: Waste Water  
Sample Description: WW Mine Discharge Water  
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

Sampling Date: 30/12/2023  
Sample Receipt Date: 03/01/2024  
Analysis Start Date: 04/01/2024  
Analysis End Date: 12/01/2024  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.28	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	42.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	100.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	3.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	28.67	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	2

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

  
Analyzed By  
Dr. Haragobinda Srichandan



  
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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2030C/78A/V3/04

Reporting Date: 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/2030C/78A/V3/04	Sampling Start Date:	30/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	03/01/2024
Sample Description:	Near Pit No. 2	Analysis start- End Date:	04/01/2024-12/01/2024
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)	60.90	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.50	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	14.96	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.65	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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2030C/78A/V3/04

Reporting Date: 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

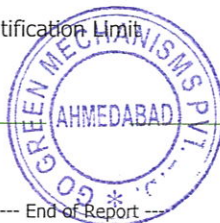
Lab ID:	Lab/PN/2030C/78A/V3/04	Sampling Start Date:	30/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	03/01/2024
Sample Description:	Near Pit No. 2	Analysis start- End Date:	04/01/2024-12/01/2024
Env. Cond.-Sampling:	Ambient 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	29	°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	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

H8

Analyzed By  
Dr. Haragobinda Srichandan



P.Bp

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2030C/78A/V3/05

Reporting Date: 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2030C/78A/V3/05	Sampling Start Date:	30/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	03/01/2024
Sample Description:	Near Sukala Village	Analysis start- End Date:	04/01/2024-12/01/2024
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)	62.23	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.52	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.83	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.65	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)	1.08	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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Analyzed By  
Dr. Haragobinda Srichandan



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2030C/78A/V3/05

Reporting Date: 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)




### SAMPLE DETAILS

Lab ID:	Lab/PN/2030C/78A/V3/05	Sampling Start Date:	30/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	03/01/2024
Sample Description:	Near Sukala Village	Analysis start- End Date:	04/01/2024-12/01/2024
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	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	43	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	0.0
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
Analyzed By  
Dr. Haragobinda Srichandan



  
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--- End Of Report ---

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/07

Reporting Date: 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

30/12/2023

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2030C/78A/V3/08A	Nr. Pit No.02	Day Time	dB(A)Leq	IS 4758	65.9	75
2	Lab/PN/2030C/78A/V3/08B	Near Sukali Village	Day Time	dB(A)Leq	IS 4758	61.2	75
3	Lab/PN/2030C/78A/V3/08C	Haul Road	Day Time	dB(A)Leq	IS 4758	64.6	75

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2030C/78A/V3/06

Reporting Date: 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)




### SAMPLE DETAILS

Lab ID:	Lab/PN/2030C/78A/V3/06	Sampling Start Date:	30/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/01/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/01/2024
Sample Description:	Haul Road	Analysis start- End Date:	04/01/2024-12/01/2024
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)	62.17	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.66	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.37	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.65	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

  
Analyzed By  
Dr. Haragobinda Srichandan



  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2030C/78A/V3/06

Reporting Date: 13/01/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



### SAMPLE DETAILS

Lab ID:	Lab/PN/2030C/78A/V3/06	Sampling Start Date:	30/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	31/01/2024
Sample Type:	Ambient Air	Sample Receipt Date:	03/01/2024
Sample Description:	Haul Road	Analysis start- End Date:	04/01/2024-12/01/2024
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	42	%	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	0.00000
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

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