

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2650C/79A/V4/01

Reporting Date : 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/01	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	Open Dugwell No-3 (GW)	Analysis End Date:	28/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	145.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	48.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	52.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.30	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	16.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.24	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	35.08	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	302.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	185.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By
Dishant Patel



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2650C/79A/V4/01

M/s Moil Limited

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

Reporting Date : 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2650C/79A/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Open Dugwell No-3 (GW)
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 15/03/2024
Sample Receipt Date: 17/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 28/03/2024
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	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.22	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
Dishant Patel



--- End of Report ---

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2655C/79A/V4/01

Reporting Date : 21/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2655C/79A/V4/01	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	GW Open Dugwell No-3	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL as per IS 10500.

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

Nidhi

Analyzed By
Nidhi Shah



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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2650C/79A/V4/02

M/s Moil Limited

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

Reporting Date : 29/03/2024



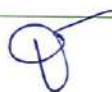
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Waste Water	Analysis Start Date:	18/03/2024
Sample Description:	W.W. Mine Discharge Water Block No A-B Pit	Analysis End Date:	28/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.42	-	IS 3025- Part 11	-
2	Total Suspended Solids	21.80	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	22	mg/L	IS 3025- Part 44	-
7	Manganese	0.122	mg/L	GGMPL/SOP/W & WW/46	-

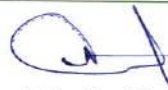
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Dishant Patel



--- End of Report ---



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Manish Kumawat

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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

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M/s Moil Limited

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

Reporting Date : 29/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/03	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	Office Colony Water Supply (GW)	Analysis End Date:	28/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	160.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	54.11	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	57.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.30	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	13.12	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.28	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	34.09	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	315.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	189.00	mg/L	APHA 23rd Edn 2340 C	200	600

Al & PL As Per IS 10500

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

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M/s Moil Limited

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

Reporting Date : 29/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2650C/79A/V4/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Office Colony Water Supply (GW)
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 15/03/2024
Sample Receipt Date: 17/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 28/03/2024
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	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.50	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AI & PL As Per IS 10500

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M/s Moil Limited

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

Reporting Date : 21/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2655C/79A/V4/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	GW Officer Colony Water Supply	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

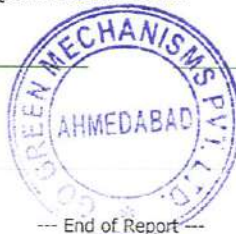
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi

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CERTIFICATE OF ANALYSIS

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M/s Moil Limited

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

Reporting Date : 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/04	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	28/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	145.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	48.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	53.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.31	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.34	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.40	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	32.90	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	293.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	186.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

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Reporting Date : 29/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2650C/79A/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Staff Quarter Water Supply (GW)
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 15/03/2024
Sample Receipt Date: 17/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 28/03/2024
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	1.5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.07	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
Dishant Patel



Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2655C/79A/V4/03

Reporting Date : 21/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2655C/79A/V4/03	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	GW Staff Quarter Water Supply	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	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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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2650C/79A/V4/05

Reporting Date: 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/05	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	18/03/2024-28/03/2024
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)	63.94	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.66	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.82	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.01	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.18	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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



Analyzed By
Dishant Patel



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2650C/79A/V4/05

Reporting Date: 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/05	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	18/03/2024-28/03/2024
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	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.9	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2650C/79A/V4/06

Reporting Date: 29/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/06	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Near Guest House	Analysis start- End Date:	18/03/2024-28/03/2024
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)	61.19	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.30	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.63	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.24	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.06	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)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2650C/79A/V4/06

M/s Moil Limited

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

Reporting Date: 29/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/06	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Near Guest House	Analysis start- End Date:	18/03/2024-28/03/2024
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	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.9	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2650C/79A/V4/07

Reporting Date: 29/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/07	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Near Tirodi Village	Analysis start- End Date:	18/03/2024-28/03/2024
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)	62.89	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)	12.83	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.15	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.94	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.18	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2650C/79A/V4/07

Reporting Date: 29/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/07	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Near Tirodi Village	Analysis start- End Date:	18/03/2024-28/03/2024
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	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.9	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/2650C/79A/V4/08

Reporting Date: 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/08	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Officer Colony	Analysis start- End Date:	18/03/2024-28/03/2024
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)	63.46	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.06	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.49	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.86	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.62	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
Dishant Patel



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2650C/79A/V4/08

Reporting Date: 29/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2650C/79A/V4/08	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Officer Colony	Analysis start- End Date:	18/03/2024-28/03/2024
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	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.9	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: GGMP/L/PN/2650C/79A/V4/09

Reporting Date: 29/03/2024

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
Sample By : Laboratory Representative

Sampling Date: 15/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2650C/7 9A/V4/09A	Near Office Premises	Day Time	dB(A)Leq	IS 4758	67.1	-
2	Lab/PN/2650C/7 9A/V4/09B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	66.3	-
3	Lab/PN/2650C/7 9A/V4/09C	Jack Hammer drill Machine	Day Time	dB(A)Leq	IS 4758	65.4	-
4	Lab/PN/2650C/7 9A/V4/09D	Near Excavator	Day Time	dB(A)Leq	IS 4758	68.3	-
5	Lab/PN/2650C/7 9A/V4/09A	Near Office Premises	Night Time	dB(A)Leq	IS 4758	57.2	-
6	Lab/PN/2650C/7 9A/V4/09B	Dumper Loaded	Night Time	dB(A)Leq	IS 4758	56.3	-
7	Lab/PN/2650C/7 9A/V4/09C	Jack Hammer drill Machine	Night Time	dB(A)Leq	IS 4758	57.4	-
8	Lab/PN/2650C/7 9A/V4/09D	Near Excavator	Night Time	dB(A)Leq	IS 4758	55.2	-

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

Analyzed By
Dishant Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2651C/79A/V4/01

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2651C/79A/V4/01	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	114.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	32.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	52.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.34	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	17.01	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.34	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	26.56	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	236.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	152.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Sachi

Analyzed By
Sachi Patel



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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2651C/79A/V4/01

M/s Moil Limited

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

Reporting Date : 27/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2651C/79A/V4/01	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.41	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Sachi

Analyzed By
Sachi Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2656C/79A/V4/01

M/s Moil Limited

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

Reporting Date : 21/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2656C/79A/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: GW Sampling Water Supply

Sampling Date: 15/03/2024
Sample Receipt Date: 17/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 21/03/2024

Sample Quantity: 300 ml
Sample Condition: Satisfactory


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

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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


Analyzed By
Nidhi Shah



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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2651C/79A/V4/02

Reporting Date : 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2651C/79A/V4/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	126.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	30.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	58.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.42	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.68	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	25.27	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	262.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	166.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Sachi

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Sachi Patel



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Report Number: GGMP/L/PN/2651C/79A/V4/02

M/s Moil Limited

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

Reporting Date : 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2651C/79A/V4/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.83	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Sachi

Analyzed By
Sachi Patel



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/LPN/2656C/79A/V4/02

M/s Moil Limited

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

Reporting Date : 21/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2656C/79A/V4/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	GW Near Dumping Area Water Supply	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMP/LWI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

						Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL	
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent	
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2651C/79A/V4/03

Reporting Date: 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2651C/79A/V4/03	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Near Sampling Room	Analysis start- End Date:	18/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	77.85	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	22.60	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	29.50	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	19.51	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.37	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.81	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

Sachi
Analyzed By
Sachi Patel



Manish Kumawat
Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2651C/79A/V4/03

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2651C/79A/V4/03	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Near Sampling Room	Analysis start- End Date:	18/03/2024-26/03/2024
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	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	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/2651C/79A/V4/04

Reporting Date: 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2651C/79A/V4/04	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Near Dumping Area	Analysis start- End Date:	18/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	75.48	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.80	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.85	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	20.44	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.93	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2651C/79A/V4/04

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2651C/79A/V4/04	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	Near Dumping Area	Analysis start- End Date:	18/03/2024-26/03/2024
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	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	47	%	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

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Report Number: GGMPL/PN/2651C/79A/V4/05

Reporting Date: 27/03/2024

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
Sample By Laboratory Representative

Sampling Date: 15/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2651C/7 9A/V4/05A	Nr Sampling Room	Day Time	dB(A)Leq	IS 4758	67.3	-
2	Lab/PN/2651C/7 9A/V4/05B	Nr Dumping Area	Day Time	dB(A)Leq	IS 4758	69.3	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2652C/79A/V4/01

M/s Moil Limited

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

Reporting Date : 27/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2652C/79A/V4/01	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	124.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	32.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	44.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.26	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	16.03	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.37	-	IS 3025- Part 11	6.5 to 8.5	No relaxation
9	Sulphate	19.42	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	254.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	146.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

Ritu

Analyzed By
Ritu Shah



Manish

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2652C/79A/V4/01

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2652C/79A/V4/01	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/W1/27A
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	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.47	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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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2657C/79A/V4/01

Reporting Date : 21/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2657C/79A/V4/01	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	GW Near Pit Office Water Supply	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

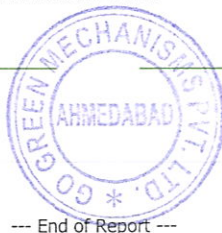
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	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
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2652C/79A/V4/02

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2652C/79A/V4/02	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/03/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	19/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.80	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)	14.49	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.58	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.21	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.18	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



Analyzed By
Ritu Shah



Authorized Signatory
Manish Kumawat

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/2652C/79A/V4/02

Reporting Date: 27/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/2652C/79A/V4/02	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/03/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	19/03/2024-26/03/2024
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	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	38	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	7.8	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Ritu Shah




Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2652C/79A/V4/03

Reporting Date: 27/03/2024

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: 15/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2652C/79A/V4/03	Near Pit Office	Day Time	dB(A)Leq	IS 4758	57.7	-

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


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Manish Kumawat

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2654C/06S/V3/01

Reporting Date : 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2654C/06S/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: North Railway siding office (GW)

Sampling Date: 15/03/2024
Sample Receipt Date: 17/03/2024
Analysis Start Date: 19/03/2024
Analysis End Date: 26/03/2024

Sample Quantity: 4.5 L
Sample Condition: Satisfactory

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

						Specification:	
Sr.No	Parameters	Results	Unit	Test Method		AL	PL
1	Alkalinity as CaCO ₃	125.00	mg/L	APHA 23rd Edn 2320 B		200	600
2	Calcium as Ca	36.87	mg/L	APHA 23rd Edn 3500 Ca B		75	200
3	Chloride	78.47	mg/L	IS 3025- Part 32		250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4		5	15
5	Fluoride	0.35	mg/L	APHA 23rd Edn 4500 F D		1.0	1.5
6	Magnesium as Mg	22.59	mg/L	APHA 23rd Edn 3500 Mg B		30	100
7	Odour	Agreeable	-	IS 3025- Part 5		Agreeable	Agreeable
8	pH at 25 °C	7.15	-	IS 3025- Part 11		6.5 to 8.5	No relaxation
9	Sulphate	25.07	mg/L	APHA 23rd Edn 4500 SO ₄ E		200	400
10	Total Dissolved Solids (TDS)	286.00	mg/L	APHA 23rd Edn 2540 C		500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D		NS	NS

AL & PL As Per Is 10500.

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

Khushbu
Analyzed By
Khushbu Suthar



Manish
Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2654C/06S/V3/01

M/s Moil Limited

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

Reporting Date : 27/03/2024



SAMPLE DETAILS

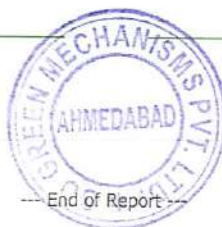
Lab ID:	Lab/PN/2654C/06S/V3/01	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	19/03/2024
Sample Description:	North Railway siding office (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

						Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL	
12	Total Hardness as CaCO ₃	185.00	mg/L	APHA 23rd Edn 2340 C	200	600	
13	Turbidity	0.4	NTU	APHA 23rd Edn 2130 B	1	5	
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation	
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3	
16	Nitrate	1.75	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation	

AL & PL As Per Is 10500.

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

Khushbu
Analyzed By
Khushbu Suthar



Manish Kumawat
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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2659C/06S/V3/01

M/s Moil Limited

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

Reporting Date : 21/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2659C/06S/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: GW North Railway Siding Office

Sampling Date: 15/03/2024
Sample Receipt Date: 17/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 21/03/2024

Sample Quantity: 300 ml
Sample Condition: Satisfactory

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

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	E.coli	Absent	Present or Absent/100 ml	APHA 9222H 24th Edition 2021	Absent	Absent
2	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



HR
Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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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/2654C/06S/V3/02

M/s Moil Limited

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

Reporting Date : 27/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2654C/06S/V3/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	19/03/2024
Sample Description:	End of North Railway Siding	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	138.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	50.50	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	103.46	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.27	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.75	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.45	-	IS 3025- Part 11	6.5 to 8.5	No relaxation
9	Sulphate	35.27	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	336.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per Is 10500.

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Khushbu Suthar



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Manish Kumawat

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Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/2654C/06S/V3/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	19/03/2024
Sample Description:	End of North Railway Siding	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	232.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	1.0	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.52	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No Relaxation

AL & PL As Per Is 10500.

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Analyzed By
Khushbu Suthar




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Page No : 2/2

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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMLP/PN/2659C/06S/V3/02

M/s Moil Limited

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

Reporting Date : 21/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2659C/06S/V3/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Ground Water	Analysis Start Date:	18/03/2024
Sample Description:	GW End of North Railway Siding Office	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMLP/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	E.coli	Absent	Present or Absent/100 ml	APHA 9222H 24th Edition 2021	Absent	Absent
2	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

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Analyzed By
Nidhi Shah



--- End of Report ---

Haragobinda
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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2654C/06S/V3/03

Reporting Date: 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2654C/06S/V3/03	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	North Railway Siding Office	Analysis start- End Date:	19/03/2024-26/03/2024
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)	62.69	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.08	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.82	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.74	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Khushbu Suthar



Authorized Signatory
Manish Kumawat

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/2654C/06S/V3/03

Reporting Date: 27/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/2654C/06S/V3/03	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	North Railway Siding Office	Analysis start- End Date:	19/03/2024-26/03/2024
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	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Khushbu Suthar




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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2654C/06S/V3/04

Reporting Date: 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2654C/06S/V3/04	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	End of North Railway Siding	Analysis start- End Date:	19/03/2024-26/03/2024
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)	61.05	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.72	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.81	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)	1.05	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

Khushbu

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Khushbu Suthar



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2654C/06S/V3/04

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2654C/06S/V3/04	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	End of North Railway Siding	Analysis start- End Date:	19/03/2024-26/03/2024
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	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	5	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2654C/06S/V3/05

Reporting Date: 27/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 15/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2654C/06S/V3/05A	North Railway Siding Office	Day Time	dB(A)Leq	IS 4758	67.8	-
2	Lab/PN/2654C/06S/V3/05B	End Of North Railway Siding	Day Time	dB(A)Leq	IS 4758	68.9	-
3	Lab/PN/2654C/06S/V3/05A	North Railway Siding Office	Night Time	dB(A)Leq	IS 4758	54.1	-
4	Lab/PN/2654C/06S/V3/05B	End Of North Railway Siding	Night Time	dB(A)Leq	IS 4758	55.8	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2653C/06D/V3/01

M/s Moil Limited

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

Reporting Date : 29/03/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/2653C/06D/V3/01	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Ground Water	Analysis Start Date:	18/03/2024
Sample Description:	South railway Siding Office (GW)	Analysis End Date:	28/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

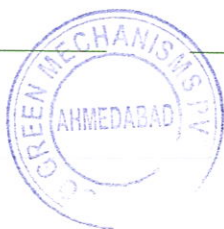
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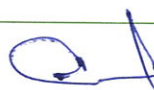
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	141.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	34.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	45.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.30	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	14.58	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.55	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	25.46	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	234.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	145.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL as Per IS 10500

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


Analyzed By
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2653C/06D/V3/01

M/s Moil Limited

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

Reporting Date : 29/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2653C/06D/V3/01	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Ground Water	Analysis Start Date:	18/03/2024
Sample Description:	South railway Siding Office (GW)	Analysis End Date:	28/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

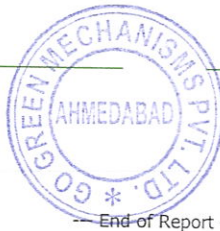
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.80	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as Per IS 10500

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


Analyzed By
Priyanka Shrimali



--- End of Report ---


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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2658C/06D/V3/01

M/s Moil Limited

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

Reporting Date : 22/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2658C/06D/V3/01	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	GW South Railway Siding Office	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	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 ---

Dr. Haragobinda Srichandan

Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2653C/06D/V3/02

M/s Moil Limited

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

Reporting Date : 29/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2653C/06D/V3/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	End Of South railway Siding(GW)	Analysis End Date:	28/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	158.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	38.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	65.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.35	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.85	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	30.52	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	286.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	185.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL as Per IS 10500

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Manish Kumawat

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/2653C/06D/V3/02

M/s Moil Limited

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

Reporting Date : 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2653C/06D/V3/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	End Of South railway Siding(GW)	Analysis End Date:	28/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

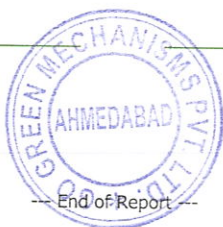
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.50	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

Analyzed By
Priyanka Shrimali



Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2658C/06D/V3/02

M/s Moil Limited

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

Reporting Date : 22/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2658C/06D/V3/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	17/03/2024
Sample Type:	Water	Analysis Start Date:	01/01/0001
Sample Description:	GW end of South Railway Siding	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

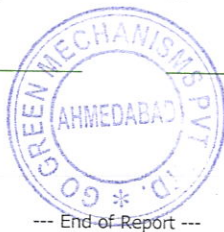
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



Manish
Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2653C/06D/V3/03

M/s Moil Limited

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

Reporting Date: 29/03/2024




SAMPLE DETAILS

Lab ID:	Lab/PN/2653C/06D/V3/03	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	South railway Siding Office	Analysis start- End Date:	18/03/2024-28/03/2024
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)	69.59	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.85	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.03	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.24	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.49	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Priyanka Shrimali




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Manish Kumawat

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M/s Moil Limited

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

Reporting Date: 29/03/2024




TC-7073

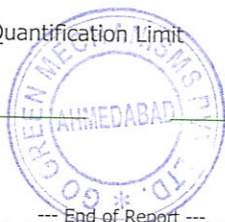
SAMPLE DETAILS


Lab ID:	Lab/PN/2653C/06D/V3/03	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	South railway Siding Office	Analysis start- End Date:	18/03/2024-28/03/2024
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	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	4.5	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2653C/06D/V3/04

Reporting Date: 29/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2653C/06D/V3/04	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	End Of South railway Siding	Analysis start- End Date:	18/03/2024-28/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	75.85	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)	16.28	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.58	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.96	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.63	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Reporting Date: 29/03/2024

M/s Moil Limited

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

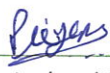


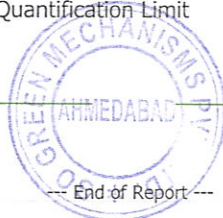
SAMPLE DETAILS

Lab ID:	Lab/PN/2653C/06D/V3/04	Sampling Start Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	17/03/2024
Sample Description:	End Of South railway Siding	Analysis start- End Date:	18/03/2024-28/03/2024
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	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	4.5	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Manish Kumawat

Page No : 2/2

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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2653C/06D/V3/05

Reporting Date: 29/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 15/03/2024


Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2653C/06D/V3/05A	South Railway Siding Office	Day Time	dB(A)Leq	IS 4758	66.1	-
2	Lab/PN/2653C/06D/V3/05B	End of south railway siding	Day Time	dB(A)Leq	IS 4758	64.3	-
3	Lab/PN/2653C/06D/V3/05A	South Railway Siding Office	Night Time	dB(A)Leq	IS 4758	55.1	-
4	Lab/PN/2653C/06D/V3/05B	End of south railway siding	Night Time	dB(A)Leq	IS 4758	56.4	-

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


Analyzed By
Priyanka Shirmali



--- End of Report ---


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Manish Kumawat

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