

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/851D/79/01

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/851D/79/01

21/06/2024

Sample Drawn By:

Laboratory Representative

23/06/2024 24/06/2024

Sample Type: Sample Description:

Sample Condition:

Water Open Dugwell No-3 (GW)

02/07/2024

Sample Quantity:

3 L Satisfactory Analysis End Date: Sampling Method:

Sample Receipt Date:

Analysis Start Date:

Sampling Date:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	185.00	mg/L	APHA 23rd Edii 2320 B	200	600
2	Calcium as Ca	54.11	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	55.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.31	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	: - 2	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.32	• 156	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	38.97	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	350.00	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 CaCO3	198.00	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 Manoj Kumar

Authorized Signatory Manish Kumawat

Page No: 1/2

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Open Dugwell No-3 (GW) 3 L

Lab/PN/851D/79/01

Laboratory Representative

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

21/06/2024

23/06/2024 24/06/2024 02/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	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	3.25	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

Manoi Kumar

rid of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/851D/79/02

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/851D/79/02

Laboratory Representative

BQL (QL=0.1)

Sample Quantity: Satisfactory

Sample Condition:

Manganese

Sample Description:

Sample Drawn By:

Sample Type:

Waste Water

5 L

Sampling Date:

Sample Receipt Date: Analysis Start Date: W.W. Mine Discharge Water Block No A-B Pit Analysis End Date:

Sampling Method:

Packing:

GGMPL/SOP/W & WW/46

21/06/2024

23/06/2024 24/06/2024 02/07/2024

GGMPL/WI/27A Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.51	-	IS 3025- Part 11	13
2	Total Suspended Solids	19.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	: <u>-</u>
4	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	20	mg/L	IS 3025- Part 44	

mg/L

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

Manoj Kumar

AHMEDABAD End of Report --

Authorized Signatory Manish Kumawat

Page No: 1/1

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M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/851D/79/03

Sampling Date:

21/06/2024

Sample Drawn By:

Laboratory Representative

Office Colony Water Supply (GW)

Sample Receipt Date:

23/06/2024

Sample Type:

Satisfactory

Analysis Start Date: Analysis End Date:

24/06/2024 02/07/2024

Sample Description: Sample Quantity:

Sample Condition:

3 L

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	175.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	58.12	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	65.98	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	1.0	1.5
6	Magnesium as Mg	14.58	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	4	IS 3025- Part 5	Agreeabl	le Agreeable
8	pH at 25 °C	7.34	4	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	38.77	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	345.00	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 CaCO3	205,00	mg/L	APHA 23rd Edn 2340 C	200	600

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

Manoj Kumar

Authorized Signatory Manish Kumawat

Page No: 1/2

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M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-707

SAMPLE DETAILS

Lab ID:

Lab/PN/851D/79/03

Sampling Date:

21/06/2024

Sample Drawn By: Sample Type: Laboratory Representative

Sample Receipt Date: 23 Analysis Start Date: 24

23/06/2024 24/06/2024

Sample Description:

Office Colony Water Supply (GW)

Analysis End Date: Sampling Method: 02/07/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 3 L 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	3.85	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

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

Analyzed By Manoj Kumar

--- End of Report ---

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/851D/79/04

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/851D/79/04

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Staff Quarter Water Supply (GW)

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/06/2024

23/06/2024 24/06/2024

02/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	145.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	54.51	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	65.9	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.38	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.31	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 ℃	7.37		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	36.41	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	305.00	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 CaCO3	198.00	mg/L	APHA 23rd Edn 2340 C	200	600

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

Manoj Kumar

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M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/851D/79/04 Laboratory Representative Sampling Date: 21/06/2024 23/06/2024 Sample Receipt Date: Analysis Start Date:

Sample Drawn By: Sample Type:

Staff Quarter Water Supply (GW)

24/06/2024 02/07/2024

Sample Description:

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
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	3.35	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

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

Analyzed By Manoj Kumar -- End of Report ---

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AHMEDABAD

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Page No: 2/2

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Arsenic as As

Lab/PN/851D/79/05

Laboratory Representative

Ambient Air

Near Mine Office

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 21/06/2024

22/06/2024 23/06/2024

23/06/2024 24/06/2024-02/07/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.67	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.81	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.09	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.68	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.00	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20

BQL (QL=1)

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

Analyzed By Manoj Kumar

Authorized Signatory Manish Kumawat

ng/m3 USEPA Method IO 3.4

Page No: 1/2

Terms & Conditions



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/851D/79/05

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/851D/79/05

Laboratory Representative

Ambient Air Near Mine Office Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

21/06/2024 22/06/2024 23/06/2024

24/06/2024-02/07/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	36	%	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	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Manoj Kumar

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/851D/79/06

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

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

Lab/PN/851D/79/06

Laboratory Representative Ambient Air

Near Guest House

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

23/06/2024 24/06/2024-02/07/2024

21/06/2024

22/06/2024

				ah eko Ka
Env. CondSample Receipt:	Satisfactory		Env. CondTesting:	25±5°C
Env. CondSampling:	Ambient Tempratur	e	Total Sampling hours	s: 24

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.12	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)	12.37	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.38	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.20	µg/m3	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	Í
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Manoj Kumar

Authorized Signatory Manish Kumawat

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/851D/79/06

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

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

Lab/PN/851D/79/06 Laboratory Representative Ambient Air Near Guest House Ambient Temprature Env. Cond.-Sample Receipt: Satisfactory

21/06/2024 Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

22/06/2024 23/06/2024 24/06/2024-02/07/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	36	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Manoj Kumar Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/851D/79/07

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/851D/79/07

Laboratory Representative

Ambient Air Near Tirodi Village

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

21/06/2024

22/06/2024 23/06/2024

24/06/2024-02/07/2024

24

25±5°C

ir.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.68	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.34	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.93	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.68	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.40	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Manoj Kumar

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/851D/79/07

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/851D/79/07

Laboratory Representative

Ambient Air

Near Tirodi Village Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

21/06/2024 22/06/2024 23/06/2024

24/06/2024-02/07/2024

24 25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
perature	32	°C	GGMPL/SOP/MP/01	NS
tive Humidity	56	%	GGMPL/SOP/MP/01	NS
fall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
d Speed	3.0	m/s	GGMPL/SOP/MP/01:2020	NS
	perature tive Humidity fall I	perature 32 tive Humidity 56 fall 0.0 BQL (QL=0.001)	perature 32 °C tive Humidity 56 % fall 0.0 mm BQL (QL=0.001) μg/m3	perature 32 °C GGMPL/SOP/MP/01 tive Humidity 56 % GGMPL/SOP/MP/01 fall 0.0 mm GGMPL/SOP/MP/01:2020 BQL (QL=0.001) µg/m3 USEPA Method IO 3.4

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

Analyzed By Manoj Kumar

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/851D/79/08

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/851D/79/08

Laboratory Representative

Ambient Air Officer Colony

Ambient Temperature Satisfactory

Sampling Start Date: 21/06/2024 Sampling End Date: 22/06/2024 Sample Receipt Date: 23/06/2024

Analysis start- End Date: Total Sampling hours:

24/06/2024-02/07/2024

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.44	μ g/m 3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.34	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.54	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.00	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/851D/79/08

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/851D/79/08

Laboratory Representative Ambient Air

Officer Colony Ambient Temperature

Satisfactory

Sampling Start Date: 21/06/2024 Sampling End Date: 22/06/2024 Sample Receipt Date: 23/06/2024

Analysis start- End Date: Total Sampling hours:

24/06/2024-02/07/2024

24 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 F	Relative Humidity	36	%	GGMPL/SOP/MP/01	NS
14 F	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 L	_ead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16 V	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Manoj Kumar

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Authorized Signatory Manish Kumawat

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/851D/79/09

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

21/06/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/851/79/0 9A	Near Office Premises	Day Time	dB(A)Leq	IS 4758	64.2	*
2	Lab/PN/851/79/0 9B	Dumper Loaded	Day Time	db(A)Leq	IS 4758	68.9	
3	Lab/PN/851/79/0 9C	Jack Hammer drill Machine	Day Time	db(A)Leq	IS 4758	67.3	
4	Lab/PN/851/79/0 9D	Near Excavator	Day Time	db(A)Leq	IS 4758	65.9	-

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

Analyzed By Manoj Kumar

End of Report ---

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Authorized Signatory Manish Kumawat

Page No: 1/1

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

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/852D/79/01

M/s Moil Limited

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

Reporting Date: 29/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/852D/79/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Open Dugwell No.3 (GW)

Sample Quantity: Sample Condition: 500 ml

Satisfactory

Sampling Date:

21/06/2024

Sample Receipt Date: Analysis Start Date:

23/06/2024 24/06/2024

Analysis End Date:

29/06/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

End of Report ---

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Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/852D/79/02

M/s Moil Limited

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

Reporting Date: 29/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/852D/79/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Officer Colony Water Supply (GW)

Sample Quantity: Sample Condition: 500 ml

Satisfactory

Sampling Date:

21/06/2024

Sample Receipt Date: Analysis Start Date:

23/06/2024 24/06/2024

Analysis End Date:

29/06/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

End of Report ---

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Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/852D/79/03

M/s Moil Limited

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

Reporting Date: 29/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/852D/79/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Staff Quarter Water Supply (GW)

Sample Quantity:

500 ml

Sample Condition:

Satisfactory

Sampling Date:

21/06/2024

Sample Receipt Date: Analysis Start Date:

23/06/2024 24/06/2024

Analysis End Date:

29/06/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Nidhi Shah

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/853D/79/01

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/853D/79/01

Sample Drawn By: Sample Type: Laboratory Representative

Water

Sample Description:

Sampling Room Water Supply (GW)

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/06/2024

23/06/2024 24/06/2024

02/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.52	-	IS 3025-Part 11	6.5 -8.5	No relexation
2	Alkalinity as CaCO3	120.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	55.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.40	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	23.57	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	e Agreeable
9	Sulphate	30.89	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	250.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	189.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

Al & PL As Per IS 10500

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

Analyzed By Manoj Kumar Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/853D/79/01

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/853D/79/01

Laboratory Representative

Sample Description:

Sample Type:

Sampling Room Water Supply (GW)

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

02/07/2024 GGMPL/WI/27A

21/06/2024

23/06/2024

24/06/2024

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	3.63	mg/L	APHA 23rd Edn 4500 NO3 B		

Al & PL As Per IS 10500

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

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/853D/79/02

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/853D/79/02

21/06/2024

Sample Drawn By:

Laboratory Representative

Sampling Date: Sample Receipt Date: 23/06/2024 Analysis Start Date:

Sample Type: Sample Description:

Water Near Dumping Area Water Supply (GW) Analysis End Date: 24/06/2024 02/07/2024

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	7.20	10	IS 3025-Part 11	6.5 -8.5	No relaxation
2	Alkalinity as CaCO3	137.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	65.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.49	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	23.81	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	e Agreeable
9	Sulphate	30.20	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	285.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	178.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

Al & PL As Per IS 10500

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

Manoj Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/853D/79/02

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Lab/PN/853D/79/02

Laboratory Representative

Sample Type: Sample Description:

Near Dumping Area Water Supply (GW)

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

21/06/2024

23/06/2024

24/06/2024

02/07/2024

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	3.96	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

Manoj Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/853D/79/03

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/853D/79/03

Laboratory Representative Ambient Air

Near Sampling Room Ambient Temperature

Satisfactory

Sampling Start Date: 21/06/2024 Sampling End Date: 22/06/2024 Sample Receipt Date: 23/06/2024

Sample Receipt Date: Analysis start- End Date:

d Date: 24/06/2024-02/07/2024 ours: 24

Total Sampling hours: 24 Env. Cond.-Testing: 25±

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.87	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.61	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	19.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	31.75	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.95	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.40	µg/m3	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

Analyzed By Manoj Kumar

Authorized Signatory Manish Kumawat

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/853D/79/03

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

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

Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/853D/79/03 Laboratory Representative

Ambient Air Near Sampling Room

Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 22/06/2024 23/06/2024 24/06/2024-0

21/06/2024

24/06/2024-02/07/2024 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	35	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	61	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Manoj Kumar

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/853D/79/04

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/853D/79/04

Laboratory Representative Ambient Air

Near Dumping Area Ambient Temprature

Satisfactory

Sampling Start Date: 21/06/2024 Sampling End Date: 22/06/2024 Sample Receipt Date: 23/06/2024

Analysis start- End Date: 24

24/06/2024-02/07/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.58	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	18.09	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.69	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.91	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.40	µg/m3	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

Analyzed By Manoj Kumar Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/853D/79/04

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/853D/79/04 Laboratory Representative Ambient Air Near Dumping Area Ambient Temprature Satisfactory

 Sampling Start Date:
 21/06/2024

 Sampling End Date:
 22/06/2024

 Sample Receipt Date:
 23/06/2024

 Analysis start- End Date:
 24/06/2024-02/07/2024

 Total Sampling hours:
 24

Total Sampling hours: 24 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	62	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Manoj Kumar Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/853D/79/05

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Sampling Date:

Sample Description:

21/06/2024 Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/853D/79 /05/A	Near Sampling Room	Day Time	dB(A)Leq	IS 4758	62.4	-
2	Lab/PN/853D/79 /05/b	Near Dumping Area	Day Time	dB(A)Leq	IS 4758	68.3	

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

Analyzed By Manoj Kumar Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/854D/79/01

M/s Moil Limited

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

Reporting Date: 29/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/854D/79/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Sampling Room Water Supply (GW)

Sample Quantity: Sample Condition:

Satisfactory

500 ml

Sampling Date:

21/06/2024

Sample Receipt Date:

23/06/2024

Analysis Start Date: Analysis End Date:

24/06/2024

Sampling Method:

29/06/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By

--- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/854D/79/02

M/s Moil Limited

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

Reporting Date: 29/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/854D/79/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Satisfactory

Sample Description:

Near Dumping Area Water Supply (GW)

Sample Quantity:

500 ml

Sample Condition:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Packing:

Sampling Method:

Sampling Date:

29/06/2024 GGMPL/WI/27A

21/06/2024

23/06/2024

24/06/2024

Sealed

Specification:

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

AL & PL as per IS 10500.

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

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Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/855D/79/01

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/855D/79/01

Laboratory Representative

Ground Water Near Pit office water supply

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Sampling Method:

Packing:

Analysis End Date:

01/07/2024 GGMPL/WI/27A

Sealed

21/06/2024

23/06/2024

24/06/2024

Specification:

						Specificación:
Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	130.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	52.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	5	CU .	IS 3025- Part 4	5	15
5	Fluoride	0.58	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.55	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.51		IS 3025- Part 11	6.5-8.5	No
9	Sulphate	21.55	mg/L	APHA 23rd Edn 4500 SO4 E	200	relaxation 400
10	Total Dissolved Solids (TDS)	212.00	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 CaCO3	154.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

Analyzed By Jadav Vishal

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/855D/79/01

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/855D/79/01 Laboratory Representative

Ground Water

Near Pit office water supply

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

21/06/2024

23/06/2024 24/06/2024 01/07/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No		Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity		0.9	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		2.45	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

Vival Jaday Vishal

Authorized Signatory Manish Kumawat

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/855D/79/02

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/855D/79/02

Laboratory Representative

Ambient Air Near Pit Office

Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date:

Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

21/06/2024

22/06/2024 23/06/2024

24/06/2024-01/07/2024

24

25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	80.01	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	43.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.42	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.22	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.18	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.41	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Jadav Vishal (SPV7)

Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/855D/79/02

M/s Moil Limited

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

Reporting Date: 02/07/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/855D/79/02

Laboratory Representative

Ambient Air Near Pit Office Ambient Temperature

Satisfactory

Sampling Start Date: 2 Sampling End Date: 2

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

21/06/2024 22/06/2024 23/06/2024

24/06/2024-01/07/2024

24

Env. Cond.-Testing: 25 ± 5 °C

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	31	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
Wind Speed	3.3	m/s	GGMPL/SOP/MP/01:2020	NS
	Temperature Relative Humidity Rainfall Lead	Temperature 31 Relative Humidity 59 Rainfall 0.0 Lead BQL (QL=0.001)	Temperature 31 °C Relative Humidity 59 % Rainfall 0.0 mm Lead BQL (QL=0.001) μg/m3	Temperature 31 °C GGMPL/SOP/MP/01 Relative Humidity 59 % GGMPL/SOP/MP/01 Rainfall 0.0 mm GGMPL/SOP/MP/01:2020 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Analyzed By Jadav Vishal Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/855D/79/03

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

21/06/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/855D/79 /03	Near Pit Office	Day Time	dB(A)Leq	IS 4758	60.2	

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

Analyzed By Jadav Vishal

Authorized Signatory Manish Kumawat

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/856D/79/01

M/s Moil Limited

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

Reporting Date: 29/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

nda Duanna Din

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/856D/79/01

Laboratory Representative Ground Water

Near Pit Office Water Supply (GW) 500 ml

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Sampling Method: Packing:

21/06/2024

23/06/2024 24/06/2024 29/06/2024

29/06/2024 GGMPL/WI/27A

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah



Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/862D/79/01

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/862D/79/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

North Railway siding office (GW)

Sample Quantity:

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

03/07/2024 GGMPL/WI/27A

22/06/2024

24/06/2024

25/06/2024

2 Calcii 3 Chlor 4 Colou 5 Fluor	Parameters inity as CaCO3 um as Ca iide	Results 120.00 39.27	Unit mg/L	Test Method APHA 23rd Edn 2320 B	AL 200	Specification PL
1 Alkali 2 Calcii 3 Chlor 4 Colou 5 Fluor 6 Magn	inity as CaCO3 um as Ca	120.00	mg/L			
2 Calciu 3 Chlor 4 Colou 5 Fluor 6 Magn	um as Ca			APHA 23rd Edn 2320 B	200	200
3 Chlor 4 Colou 5 Fluor 6 Magn		39.27	mall		075	600
4 Colou 5 Fluor 6 Magn	ide		mg/L	APHA 23rd Edn 3500 Ca E	3 75	200
5 Fluor 6 Magn		72.97	mg/L	IS 3025- Part 32	250	1000
6 Magn	ır	BQL (QL=1)	CU	IS 3025- Part 4	5	15
	ide	0.45	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7 Odou	nesium as Mg	18.46	mg/L	APHA 23rd Edn 3500 Mg E	30	100
	r	Agreeable		IS 3025- Part 5	Agreeab	ole Agreeable
8 pH at	25 °C	7.22	-	IS 3025- Part 11	6.5-8.5	No relaxation
9 Sulph	ate	24.50	mg/L	APHA 23rd Edn 4500 SO4	E 200	400
10 Total	Dissolved Solids (TDS)	274.00	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

Klynouby Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/862D/79/01

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/862D/79/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Satisfactory

Sample Description:

Sample Quantity:

North Railway siding office (GW)

Sample Condition:

Sampling Method:

Packing:

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

GGMPL/WI/27A

Sealed

22/06/2024

24/06/2024

25/06/2024

03/07/2024

Specification:

						- process
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	174.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	0.25	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	1.61	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per Is 10500.

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

Analyzed By Khushbu Suthar End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/862D/79/02

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/862D/79/02

Laboratory Representative

Sample Type: Sample Description:

Sample Quantity:

Water

End of North Railway Siding(GW)

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

22/06/2024

24/06/2024

25/06/2024

03/07/2024

ample	Condition. Sadsiactor	у		Packing: S	ealed	
					S	pecification
Sr No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	137.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	48.89	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	98.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.32	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.78	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.56	*	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	38.96	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	324.00	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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/862D/79/02

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/862D/79/02 Sample Drawn By:

Laboratory Representative

Water

Sample Description:

Sample Type:

End of North Railway Siding(GW)

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

Sealed

22/06/2024

24/06/2024

25/06/2024

03/07/2024

GGMPL/WI/27A

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	224.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	1.2	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	1.37	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

Khuhbu Analyzed By Khushbu Suthar

HAN End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/862D/79/03

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/862D/79/03

Laboratory Representative Ambient Air

North Railway Siding Office

Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date:

Env. Cond.-Testing:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

24

25±5°C

22/06/2024

23/06/2024

24/06/2024

25/06/2024-03/07/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.35	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)	16.09	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.84	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.15	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.40	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By

Khushbu Suthar

CHAN

Authorized Signatory Manish Kumawat

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/862D/79/03

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

25/06/2024-03/07/2024

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/862D/79/03

Laboratory Representative Ambient Air

North Railway Siding Office

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

24

22/06/2024

23/06/2024

24/06/2024

25±5°C

ir.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	62	%	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	2.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar

--- End of Report ---

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Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/862D/79/04

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/862D/79/04

Laboratory Representative

Ambient Air

End of North Railway Siding

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

,

Total Sampling hours: Env. Cond.-Testing:

23/06/2024 24/06/2024

22/06/2024

25/06/2024-03/07/2024

24

25±5°C

or No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.27	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.92	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.20	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)	1,06	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 AHMEDABAD TO A COLOR OF THE CHANGE OF THE CH

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/862D/79/04

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/862D/79/04

Laboratory Representative Ambient Air

End of North Railway Siding

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

24/06/2024

22/06/2024

23/06/2024

25/06/2024-03/07/2024

24 25±5°C

Sr.No Parameters Results Unit Test Method NAAQ Standards °C 12 Temperature 29 GGMPL/SOP/MP/01 NS Relative Humidity 65 9/6 GGMPL/SOP/MP/01 NS Rainfall 0.0 mm GGMPL/SOP/MP/01:2020 NS Lead BQL (QL=0.001) µg/m3 USEPA Method IO 3.4 Wind Speed 2.8 m/s GGMPL/SOP/MP/01:2020 NS

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Lim whole.

> Analyzed By Khushbu Suthar

AHMEDABAD End of Report --

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/862D/79/05

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

22/06/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/862D/79 /05A	North Railway Siding Office	Day Time	dB(A)Leq	IS 4758	62.9	-
2	Lab/PN/862D/79 /05B	End Of North Railway Siding	Day Time	dB(A)Leq	IS 4758	67.2	

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

Khushbu Suthar

End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/863D/79/01

M/s Moil Limited

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

Reporting Date: 01/07/2024

Specification



SAMPLE DETAILS

Lab ID:

Lab/PN/863D/79/01

Sample Drawn By:

Sample Quantity:

Laboratory Representative

Sample Type: Sample Description: Ground Water

North Railway Siding Office (GW)

Sample Condition:

500 ml

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

22/06/2024

24/06/2024

25/06/2024

01/07/2024

Sealed

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

AHMEDABAD

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/863D/79/02

M/s Moil Limited

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

Reporting Date: 01/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/863D/79/02

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description: Ground Water

End of North Railway Siding (GW)

Sample Quantity:

500 ml

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

22/06/2024

24/06/2024

25/06/2024

01/07/2024

						specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G Z4th Edition	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

Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/864D/79/01

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/864D/79/01

Laboratory Representative

Ground Water South railway Siding Office (GW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

22/06/2024

24/06/2024

26/06/2024 02/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	135.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	32.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	40.99	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	14.09	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeabl
8	pH at 25 °C	7.21		IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	23.12	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	213.00	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 CaCO3	139.00	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 Gyanvati Shukla AHMEDABAD

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/864D/79/01

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/864D/79/01

Sampling Date: Sample Receipt Date:

22/06/2024 24/06/2024

Sample Drawn By: Sample Type:

Laboratory Representative Ground Water

Analysis Start Date:

26/06/2024 02/07/2024

Sample Description:

South railway Siding Office (GW)

Analysis End Date: Sampling Method:

Sample Quantity:

3 L

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	2.09	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

Gyanvati Shukla

--- End of Report --

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Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/864D/79/02

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/864D/79/02

Laboratory Representative

Sample Drawn By: Sample Type:

Sample Description:

End Of South railway Siding(GW)

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

22/06/2024

24/06/2024 26/06/2024

02/07/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	148.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	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	0.29	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.90	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.56	1	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	32.09	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	235.00	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 CaCO3	176,00	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 Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/864D/79/02

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/864D/79/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

End Of South railway Siding(GW)

Sample Quantity:

Sample Condition:

3 L

Satisfactory

Sampling Date:

22/06/2024

Sample Receipt Date: Analysis Start Date:

24/06/2024

Analysis End Date:

26/06/2024 02/07/2024

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	2.24	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

Gyanvati Shukla

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/864D/79/03

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/864D/79/03

Laboratory Representative

Ambient Air South railway Siding Office

Ambient temperature

Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing:

22/06/2024

23/06/2024 24/06/2024

26/06/2024-02/07/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Sta
1 Particu	late Matter (PM10)	60.96	μg/m3	IS 5182- Part 23	100

Sr. No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.96	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.50	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.81	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.00	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.60	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2,5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Gyanvati Shukla Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/864D/79/03

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Type:
Sample Description:
Env. Cond.-Sampling:
Env. Cond.-Sample Receipt:

Lab/PN/864D/79/03

Laboratory Representative

Ambient Air

South railway Siding Office Ambient temperature

Satisfactory

Sampling Start Date: 22/06/2024 Sampling End Date: 23/06/2024 Sample Receipt Date: 24/06/2024

Analysis start- End Date: 26/06/2024-02/07/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	62	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.8	m/s	GGMPL/SOP/MP/01:2020	

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

Analyzed By Gyanvati Shukla

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/864D/79/04

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/864D/79/04 Laboratory Representative Ambient Air End Of South railway Siding

Ambient temperature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

22/06/2024 23/06/2024 24/06/2024

26/06/2024-02/07/2024

25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.53	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.70	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.64	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.86	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.80	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	- 34
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 Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/864D/79/04

M/s Moil Limited

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

Reporting Date: 03/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:Lab/PN/864D/79/04Sampling Start Date:22/06/2024Sample Drawn By:Laboratory RepresentativeSampling End Date:23/06/2024Sample Type:Ambient AirSample Receipt Date:24/06/2024

Sample Description: End Of South railway Siding Analysis start- End Date: 26/06/2024-02/07/2024

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 Tempera	ture	32	°C	GGMPL/SOP/MP/01	NS
13 Relative	Humidity	62	%	GGMPL/SOP/MP/01	NS
14 Rainfall		0.0	mm	GGMPL/SOP/MP/01:2020	
15 Lead		BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 Wind Spe	eed	2.8	m/s	GGMPL/SOP/MP/01:2020	

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

Analyzed By Gyanvati Shukla

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/864D/79/05

M/s Moil Limited

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

Reporting Date: 03/07/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date: Sample Description: 22/06/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/864D/79 /05A	South Railway Siding Office	Day Time	dB(A)Leq	IS 4758	64.8	-
2	Lab/PN/864D/79 /05B	End of South Railway Siding	Day Time	dB(A)Leq	IS 4758	54.6	
3	Lab/PN/864D/79 /05A	South Railway Siding Office	Night Time	dB(A)Leq	IS 4758	68.4	
4	Lab/PN/864D/79 /05B	End of South Railway Siding	Night Time	dB(A)Leq	IS 4758	53.7	

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

Analyzed By Gyanvati Shukla End of Report ---

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/865D/79/01

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/865D/79/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description: Sample Quantity:

South Railway Siding Office (GW)

500 ml

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

24/06/2024 25/06/2024 01/07/2024

22/06/2024

Sampling Method:

GGMPL/WI/27A

Sealed Packing:

Specification:

		Results	Unit	Test Method	AL	PL
r.No	Parameters	Results		Water Miles and a second	Absent	Absent
	T-t-Legliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absone	1 1000111
1	Total coliform		***************************************	APHA 9221G 24th Edition	Absent	Absent
2	E. coli	Absent	per 100ml	APTIM SEELG ETTI LUMBIT		

AL & PL as per IS 10500.

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

Nidhi Shah

--- End of Report ---

AHMEDABAD

Signatory Authorized Dr. Haragobinda Srichandan

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