

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/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:

Sample Type:

Lab/PN/2650C/79A/V4/01

Sample Drawn By:

Laboratory Representative

Water

Sample Description:

Open Dugwell No-3 (GW)

4.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

15/03/2024

Sample Receipt Date: Analysis Start Date:

17/03/2024 18/03/2024

Analysis End Date:

28/03/2024 GGMPL/WI/27A

Sampling Method:

Packing: Sealed

Specification:

					5	pecification
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	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	-8	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	35.08	mg/L	APHA 23rd Edn 4500 SO4 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 CaCO3	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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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/V4/01 Laboratory Representative

Sampling Date: Sample Receipt Date: 15/03/2024 17/03/2024

Sample Drawn By: Sample Type:

Water Open Dugwell No-3 (GW) Analysis Start Date: 18/03/2024 Analysis End Date:

28/03/2024 GGMPL/WI/27A

Sample Description: Sample Quantity: Sample Condition:

4.5 L Satisfactory

Sampling Method:

Packing:

Sealed

Specification:

Sr.No	Param	neters 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

Authorized Signatory Manish Kumawat

Page No: 2/2

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

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/V4/01

Sampling Date: 15/03

15/03/2024

Sample Drawn By: Sample Type: Laboratory Representative

Sample Receipt Date:

17/03/2024 18/03/2024

Sample Description:

Water GW Open Dugwell No-3 Analysis Start Date: Analysis End Date:

21/03/2024

Sample Quantity:

300 ml

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sealed

ALL OF					4E-4-1121	Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
			Present or			
1	Total coliform	Absent		APHA 9222 A&B 24th Edition 2021	Absent	Absent
			ml			
			Present or			
2	E.coli	Absent	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



Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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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



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/2650C/79A/V4/02 Laboratory Representative

Waste Water

4.5 L

Satisfactory

Sampling Date:

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

Sampling Method:

Packing:

15/03/2024

17/03/2024 18/03/2024 28/03/2024

GGMPL/WI/27A

Sealed

r.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.42	141	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 o 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 Rea

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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: 29/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2650C/79A/V4/03

Laboratory Representative

Sample Drawn By: Sample Type:

Office Colony Water Supply (GW)

Sample Description: Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

15/03/2024

17/03/2024 18/03/2024

28/03/2024 GGMPL/WI/27A

Sealed

					S	pecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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 SO4 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 CaCO3	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: Sample Type:

Laboratory Representative

Water

Sample Description:

Office Colony Water Supply (GW)

Sample Quantity:

Sample Condition:

4.5 L Satisfactory

Analysis Start Date:

Sampling Date:

Analysis End Date:

Sample Receipt Date:

Sampling Method: Packing:

15/03/2024 17/03/2024

18/03/2024 28/03/2024

GGMPL/WI/27A

Sealed

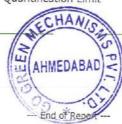
Specification:

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	3.50	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 Dishant Patel



Authorized Signatory Manish Kumawat

Page No: 2/2

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

Reporting Date: 21/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2655C/79A/V4/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

GW Officer Colony Water Supply

Sample Quantity:

300 ml

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

17/03/2024 18/03/2024

Analysis End Date:

21/03/2024

15/03/2024

Sampling Method:

GGMPL/WI/27A Sealed

Packing:

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	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

Page No: 1/1

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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

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Description: Sample Quantity:

Staff Quarter Water Supply (GW)

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

15/03/2024 17/03/2024

Analysis Start Date:

18/03/2024

Analysis End Date: Sampling Method:

28/03/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

						pecineation
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	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	70	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 SO4 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 CaCO3	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





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/2650C/79A/V4/04

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:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2650C/79A/V4/04 Laboratory Representative

Water

Staff Quarter Water Supply (GW)

4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

15/03/2024

17/03/2024 18/03/2024

28/03/2024 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	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

--- 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/2655C/79A/V4/03

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/V4/03

Sampling Date:

15/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

17/03/2024

Sample Type:

Water

Analysis Start Date: Analysis End Date:

18/03/2024 21/03/2024

Sample Description:

GW Staff Quarter Water Supply

Sampling Method:

GGMPL/WI/27A

Sample Quantity:

300 ml Satisfactory

Packing:

Sealed

Sample Condition:

						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
			Present or			
1	Total coliform	Absent	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, OL= On

Nidhi Shah

AHMEDABAD -- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2650C/79A/V4/05

Laboratory Representative

Ambient Air Near Mine Office Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

18/03/2024-28/03/2024 24

25±5°C

15/03/2024

16/03/2024

17/03/2024

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

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/2650C/79A/V4/05

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:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2650C/79A/V4/05

Laboratory Representative

Ambient Air

Near Mine Office

Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

15/03/2024

16/03/2024 17/03/2024

18/03/2024-28/03/2024

24 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

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

Analyzed By Dishant Patel

Authorized Signatory Manish Kumawat

Page No: 2/2

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d of Report



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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

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



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2650C/79A/V4/06

Laboratory Representative Ambient Air

Near Guest House Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 15/03/2024 16/03/2024

17/03/2024

18/03/2024-28/03/2024

24 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

ng/m3

BQL (QL=1)

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

Analyzed By Dishant Patel

USEPA Method IO 3.4

Authorized Signatory Manish Kumawat

Page No: 1/2

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11

Arsenic as As

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2650C/79A/V4/06

Laboratory Representative

Ambient Air Near Guest House

Ambient Temprature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testina:

15/03/2024 16/03/2024

17/03/2024

18/03/2024-28/03/2024 25±5°C

Sr.No		Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature		31	°C	GGMPL/SOP/MP/01	NS

			STREET,	1 COC 1 ICCHOO	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

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

Analyzed By Dishant Patel

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/2650C/79A/V4/07

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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2650C/79A/V4/07

Laboratory Representative

Ambient Air

Near Tirodi Village Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

16/03/2024 Sample Receipt Date:

17/03/2024

15/03/2024

18/03/2024-28/03/2024

24 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

Analyzed By Dishant Patel

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2650C/79A/V4/07

Laboratory Representative

Ambient Air

Near Tirodi Village Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 15/03/2024 16/03/2024 17/03/2024

18/03/2024-28/03/2024

24 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 Lim

0

Analyzed By Dishant Patel AHMEDABADI V

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Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2650C/79A/V4/08 Laboratory Representative Ambient Air Officer Colony

Ambient Temprature Satisfactory

Sampling Start Date: 15/03/2024 Sampling End Date: 16/03/2024 Sample Receipt Date: 17/03/2024

Analysis start- End Date: Total Sampling hours:

18/03/2024-28/03/2024

24 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

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:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2650C/79A/V4/08

Laboratory Representative

Ambient Air Officer Colony

Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

18/03/2024-28/03/2024

25±5°C

15/03/2024

16/03/2024

17/03/2024

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	2.9	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= Quantified

Analyzed By Dishant Patel

End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2650C/79A/V4/09

M/s Moil Limited

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

Reporting Date: 29/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

15/03/2024

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 Lim

Analyzed By Dishant Patel AHMEDAB

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Page No: 1/1

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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

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Sampling Room Water Supply (GW)

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

15/03/2024

17/03/2024

18/03/2024 26/03/2024

GGMPL/WI/27A

Sealed

Specification:

Parameters	Results	Unit	Test Method	AL	PL
Alkalinity as CaCO3	114.00	mg/L	APHA 23rd Edn 2320 B	200	600
Calcium as Ca	32.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
Chloride	52.48	mg/L	IS 3025- Part 32	250	1000
Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
Fluoride	0.34	mg/L	APHA 23rd Edn 4500 F D	1	1.5
Magnesium as Mg	17.01	mg/L	APHA 23rd Edn 3500 Mg B	30	100
Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
pH at 25 °C	7.34		IS 3025- Part 11	6.5 to 8.5	No Relaxatio
Sulphate	26.56	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
Total Dissolved Solids (TDS)	236.00	mg/L	APHA 23rd Edn 2540 C	500	2000
Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
Total Hardness as CaCO3	152.00	mg/L	APHA 23rd Edn 2340 C	200	600
	Alkalinity as CaCO3 Calcium as Ca Chloride Colour Fluoride Magnesium as Mg Odour pH at 25 °C Sulphate Total Dissolved Solids (TDS) Total Suspended Solids (TSS)	Alkalinity as CaCO3 114.00 Calcium as Ca 32.87 Chloride 52.48 Colour BQL (QL=1) Fluoride 0.34 Magnesium as Mg 17.01 Odour Agreeable pH at 25 °C 7.34 Sulphate 26.56 Total Dissolved Solids (TDS) 236.00 Total Suspended Solids (TSS) BQL (QL=5)	Alkalinity as CaCO3 114.00 mg/L Calcium as Ca 32.87 mg/L Chloride 52.48 mg/L Colour BQL (QL=1) CU Fluoride 0.34 mg/L Magnesium as Mg 17.01 mg/L Odour Agreeable - pH at 25 °C 7.34 - Sulphate 26.56 mg/L Total Dissolved Solids (TDS) 236.00 mg/L Total Suspended Solids (TSS) BQL (QL=5) mg/L	Alkalinity as CaCO3 114.00 mg/L APHA 23rd Edn 2320 B Calcium as Ca 32.87 mg/L APHA 23rd Edn 3500 Ca B Chloride 52.48 mg/L IS 3025- Part 32 Colour BQL (QL=1) CU IS 3025- Part 4 Fluoride 0.34 mg/L APHA 23rd Edn 4500 F D Magnesium as Mg 17.01 mg/L APHA 23rd Edn 3500 Mg B Odour Agreeable - IS 3025- Part 5 pH at 25 °C 7.34 - IS 3025- Part 11 Sulphate 26.56 mg/L APHA 23rd Edn 4500 SO4 E Total Dissolved Solids (TDS) 236.00 mg/L APHA 23rd Edn 2540 C Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D	Alkalinity as CaCO3 114.00 mg/L APHA 23rd Edn 2320 B 200 Calcium as Ca 32.87 mg/L APHA 23rd Edn 3500 Ca B 75 Chloride 52.48 mg/L IS 3025- Part 32 250 Colour BQL (QL=1) CU IS 3025- Part 4 5 Fluoride 0.34 mg/L APHA 23rd Edn 4500 F D 1 Magnesium as Mg 17.01 mg/L APHA 23rd Edn 3500 Mg B 30 Odour Agreeable - IS 3025- Part 5 Agreeable pH at 25 °C 7.34 - IS 3025- Part 11 6.5 to 8.5 Sulphate 26.56 mg/L APHA 23rd Edn 4500 SO4 E 200 Total Dissolved Solids (TDS) 236.00 mg/L APHA 23rd Edn 2540 C 500 Total Suspended Solids (TSS) BQL (QL=5) mg/L APHA 23rd Edn 2540 D NS

AL & PL As Per IS 10500

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

Analyzed By Sachi Patel



Authorized Signatory Manish Kumawat

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

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Sampling Room Water Supply (GW)

Sample Quantity:

Sample Condition:

4.5 L Satisfactory Sampling Date:

15/03/2024

Sample Receipt Date: Analysis Start Date:

17/03/2024 18/03/2024

Analysis End Date:

26/03/2024

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	3.41	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= Quantifi

Analyzed By Sachi Patel

End of Report -

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Page No: 2/2

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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

Sampling Date:

15/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

17/03/2024

Sample Type:

Water

Analysis Start Date: Analysis End Date:

18/03/2024 21/03/2024

Sample Description:

GW Sampling Water Supply

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 300 ml Satisfactory

Sealed

Packing:

ocificatio

						specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
			Present or			
1	Total coliform	Absent	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= Quan



End of Report -

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/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



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Lab/PN/2651C/79A/V4/02 Laboratory Representative

Sample Type: Sample Description: Sample Quantity:

Near Dumping Area Water Supply (GW)

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

18/03/2024 26/03/2024 GGMPL/WI/27A

15/03/2024

17/03/2024

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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 SO4 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 CaCO3	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 Patel



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/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:

Analysis End Date:

15/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

17/03/2024

Sample Type: Sample Description:

Near Dumping Area Water Supply (GW)

18/03/2024

Sample Quantity:

Water 4.5 L

26/03/2024 GGMPL/WI/27A

Sample Condition:

Satisfactory

Sampling Method: 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	3.83	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

Analyzed By Sachi Patel

End of Repo

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/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



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 21/03/2024

Sample Description:

GW Near Dumping Area Water Supply

Analysis End Date:

GGMPL/WI/27A

Sample Quantity:

300 ml

Sampling Method:

Sample Condition:

Satisfactory

Packing:

Sealed

Specification: Sr.No Parameters Results Unit Test Method AI PI Present or Total coliform Absent Absent/100 APHA 9222 A&B 24th Edition 2021 Absent Absent Present or E.coli Absent Absent/100 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

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/03/2024



15/03/2024

16/03/2024

17/03/2024

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2651C/79A/V4/03 Laboratory Representative

Ambient Air

Near Sampling Room Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

18/03/2024-26/03/2024 Total Sampling hours:

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

Analyzed By Sachi Patel

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/03/2024



TC-707

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

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

Lab/PN/2651C/79A/V4/03 Laboratory Representative

Ambient Air

Near Sampling Room Ambient Temperature

Satisfactory

Sampling Start Date: 15/03/2024 Sampling End Date: 16/03/2024

Sample Receipt Date: Analysis start- End Date:

18/03/2024-26/03/2024

17/03/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Tem	perature	30	°C	GGMPL/SOP/MP/01	NS
13 Rela	tive Humidity	48	%	GGMPL/SOP/MP/01	NS
14 Rain	fall	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= Qu

Analyzed By Sachi Patel AHMEDABAD End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2651C/79A/V4/04 Laboratory Representative

Ambient Air Near Dumping Area

Ambient Temperature
Satisfactory

Sampling Start Date: 1.
Sampling End Date: 1.
Sample Receipt Date: 1.

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 15/03/2024 16/03/2024 17/03/2024

18/03/2024-26/03/2024

24 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

Analyzed By Sachi Patel AHMEDABA!

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/2651C/79A/V4/04

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

Env. Cond.-Sample Receipt:

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Lab/PN/2651C/79A/V4/04

Laboratory Representative

Ambient Air

Near Dumping Area Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 15/03/2024

16/03/2024 17/03/2024

18/03/2024-26/03/2024

s: 24 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 Lim

Analyzed By Sachi Patel

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

15/03/2024

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=

Analyzed By Sachi Patel

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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

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Near Pit Office Water Supply (GW)

Sample Quantity: Sample Condition:

4.5 L

Satisfactory

Sampling Date:

15/03/2024 Sample Receipt Date: 19/03/2024

Analysis Start Date: Analysis End Date: Sampling Method:

26/03/2024

Packing:

GGMPL/WI/27A

19/03/2024

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	ΛΡΗΛ 23rd Edn 4500 SO4 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 CaCO3	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



Analyzed By Ritu Shah



Authorized Signatory Manish Kumawat

Page No: 1/2

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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

Sample Drawn By: Sample Type:

Laboratory Representative

Ground Water

Sample Description:

Near Pit Office Water Supply (GW)

4.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

15/03/2024 Sample Receipt Date:

19/03/2024 Analysis Start Date: 19/03/2024

Analysis End Date: Sampling Method:

26/03/2024 GGMPL/WI/27A

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



Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 21/03/2024



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:

Analysis Start Date:

18/03/2024 21/03/2024

Sample Description:

GW Near Pit Office Water Supply

Analysis End Date:

Sample Quantity: Sample Condition: 300 ml

Sampling Method:

GGMPL/WI/27A

Satisfactory

Packing:

Sealed

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

AL & PL As Per IS 10500.

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

Nidhi Shah

- End of Report

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

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

19/03/2024-26/03/2024 24

Total Sampling hours: 24
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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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2652C/79A/V4/02 Laboratory Representative

Ambient Air Near Pit Office Ambient Temperature

Satisfactory

Sampling Start Date: 15/03/2024 Sampling End Date: 16/03/2024 Sample Receipt Date: 19/03/2024

Analysis start- End Date: Total Sampling hours: 24

Env. Cond.-Testing:

19/03/2024-26/03/2024

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

End of Report

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

15/03/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2652C/7 9A/V4/03	Near Pit Office	Day Time	dB(A)Leq	IS 4758	57.7	_

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

Analyzed By Ritu Shah

--- End of Report -

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:

Analysis Start Date:

APHA 23rd Edn 2540 D

19/03/2024 26/03/2024

Sample Description:

North Railway siding office (GW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

4.5 L

Packing:

Sealed

Satisfactory Specification: Sr.No Parameters Results Unit Test Method AL PL Alkalinity as CaCO3 125.00 mg/L APHA 23rd Edn 2320 B 200 600 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 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 100 Odour Agreeable IS 3025- Part 5 Agreeable Agreeable pH at 25 °C 8 7.15 IS 3025- Part 11 6.5 to 8.5 relaxation 9 Sulphate 25.07 mg/L APHA 23rd Edn 4500 SO4 E 200 400 10 Total Dissolved Solids (TDS) 286.00 mg/L APHA 23rd Edn 2540 C 500 2000 Total Suspended Solids (TSS)

AL & PL As Per Is 10500.

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

BQL (QL=5)

Dustelan. Khushbu Suthar



mg/L

Authorized Signatory Manish Kumawat

Page No: 1/2

NS

NS

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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: Sample Drawn By:

Lab/PN/2654C/06S/V3/01 Laboratory Representative Sampling Date: Sample Receipt Date: 15/03/2024 17/03/2024

Sample Type:

Analysis Start Date:

19/03/2024 26/03/2024

Sample Description:

North Railway siding office (GW)

Analysis End Date:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 4.5 L Satisfactory

Sampling Method: Packing:

Sealed

						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	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

Analyzed By Khushbu Suthar End of Report

Authorized Signatory 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



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Lab/PN/2659C/06S/V3/01 Laboratory Representative

Ground Water

GW North Railway Siding Office

Sample Quantity: Sample Condition: 300 ml

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

15/03/2024

17/03/2024

18/03/2024

21/03/2024

						Specification:
Sr.No	Parameters	Results	Unit Present or	Test Method	AL	PL
1	E.coli	Absent		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

Analyzed By Nidhi Shah

End of Report

HAN

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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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:

Sample Drawn By:

Sample Type:

Sample Description:

Lab/PN/2654C/06S/V3/02 Laboratory Representative

Water

End of North Railway Siding

Sample Quantity: Sample Condition: 4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

Sealed

15/03/2024

17/03/2024

19/03/2024

26/03/2024

GGMPL/WI/27A

15		7		racking.	Scalen	
						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	138.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	50.50	mg/L	APHA 23rd Edn 3500 Ca	a 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	g B 30	100
7	Odour	Agreeable	1/2	IS 3025- Part 5	Agr	eeable 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 SC	04 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.

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

Klywaller . Khushbu Suthar

Authorized Signatory Manish Kumawat

Page No: 1/2

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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: Sample Drawn By: Lab/PN/2654C/06S/V3/02 Laboratory Representative Sampling Date: Sample Receipt Date:

15/03/2024 17/03/2024

Sample Type:

Water

Analysis Start Date:

19/03/2024 26/03/2024

Sample Description:

End of North Railway Siding

Analysis End Date: Sampling Method:

Sample Quantity: Sample Condition: 4.51 Satisfactory

Packing:

GGMPL/WI/27A

Sealed

Specification: Sr No **Parameters** Results Unit Test Method PL AL Total Hardness as CaCO3 232.00 12 mg/L APHA 23rd Edn 2340 C 200 600 13 Turbidity 1.0 NTU APHA 23rd Edn 2130 B No Iron BQL (QL=0.05) GGMPL/SOP/W & WW/46 14 mg/L 0.3 Relaxation 15 Manganese BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.3 No Nitrate 16 1.52 mg/L APHA 23rd Edn 4500 NO3 B 45 Relaxation

AL & PL As Per Is 10500.

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

Mushlan-Khushbu Suthar

- End of Report

HAA

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/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: Analysis End Date: 18/03/2024 21/03/2024

Sample Description:

GW End of North Railway Siding Office 300 ml

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification: Sr.No Parameters Results Unit Test Method AL PL Present or E.coli Absent Absent/100 APHA 9222H 24th Edition 2021 Absent Absent Present or Total coliform Absent Absent/100 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

Analyzed By Nidhi Shah AHMEDABAD PU

Authorized Signatory
Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2654C/06S/V3/03

Laboratory Representative Ambient Air

North Railway Siding Office

Ambient Temperature

Satisfactory

Sampling Start Date: 15/03/2024 Sampling End Date: 16/03/2024

Sample Receipt Date: Analysis start- End Date:

17/03/2024 19/03/2024-26/03/2024

Total Sampling hours: Env. Cond.-Testing:

24 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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/03/2024



SAMPLE DETAILS

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

Env. Cond -Sampling:

Lab/PN/2654C/06S/V3/03 Laboratory Representative Ambient Air

North Railway Siding Office

Ambient Temperature

Sampling Start Date: 15/03/2024 Sampling End Date: 16/03/2024 Sample Receipt Date: 17/03/2024

Analysis start- End Date:

19/03/2024-26/03/2024

Total Sampling hours:

and dempining.	Ambient remperature	rotal bamping nours.	27
Env. CondSample Receipt:	Satisfactory	Env. CondTesting:	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

Analyzed By Khushbu Suthar

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2654C/06S/V3/04 Laboratory Representative Ambient Air

End of North Railway Siding

Ambient Temperature Satisfactory

Sampling Start Date: 15/03/2024 Sampling End Date: 16/03/2024 Sample Receipt Date: 17/03/2024

Analysis start- End Date:

19/03/2024-26/03/2024

Total Sampling hours: Env. Cond.-Testing:

24 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 Suthar

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Sample Description:

Lab/PN/2654C/06S/V3/04 Laboratory Representative Ambient Air End of North Railway Siding

Ambient Temperature Satisfactory

Sampling Start Date: 15/03/2024 Sampling End Date: 16/03/2024 Sample Receipt Date: 17/03/2024 19/03/2024-26/03/2024

Analysis start- End Date:

Total Sampling hours: 24 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

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

Khushbu Suthar

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 27/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

15/03/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2654C/0 6S/V3/05A	North Railway Siding Office	Day Time	dB(A)Leq	IS 4758	67.8	
2	Lab/PN/2654C/0 6S/V3/05B	End Of North Railway Siding	Day Time	dB(A)Leq	IS 4758	68.9	
3	Lab/PN/2654C/0 6S/V3/05A	North Railway Siding Office	Night Time	dB(A)Leq	IS 4758	54.1	
4	Lab/PN/2654C/0 6S/V3/05B	End Of North Railway Siding	Night Time	dB(A)Leq	IS 4758	55.8	-

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

Khushbu Suthar

End of Report

Authorized Signatory Manish Kumawat

Page No: 1/1

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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



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Quantity:

Sample Description:

Sample Condition:

Lab/PN/2653C/06D/V3/01 Laboratory Representative

Ground Water

South railway Siding Office (GW) 4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

15/03/2024

17/03/2024 18/03/2024 28/03/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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 SO4 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 CaCO3	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 Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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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:

Sample Drawn By:

Sample Description: Sample Quantity:

Sample Condition:

Sample Type:

4.5 L

Lab/PN/2653C/06D/V3/01 Laboratory Representative Ground Water

South railway Siding Office (GW)

Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

15/03/2024

17/03/2024 18/03/2024 28/03/2024 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		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 --

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2658C/06D/V3/01

M/s Moil Limited

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

Reporting Date: 22/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Laboratory Representative

Lab/PN/2658C/06D/V3/01

GW South Railway Siding Office 300 ml

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/03/2024 GGMPL/WI/27A

Sealed

15/03/2024

17/03/2024

18/03/2024

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total o	coliform	Absent	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

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AHMEDABAD

Authorized Signatory Dr. Haragobinda Srichandan

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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



SAMPLE DETAILS

Lab ID:

Lab/PN/2653C/06D/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity:

End Of South railway Siding(GW)

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

15/03/2024

17/03/2024 18/03/2024

28/03/2024 GGMPL/WI/27A

Sealed

Specification:

					3	pecification.
Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	-	70 2005 2 445	Agreeable	Agreeable
8	pH at 25 °C	7.85				No
9	Sulphate	30.52	mg/L	ADULA 22 151 1522 553		Relaxation 400
10	Total Dissolved Solids (TDS)		The same of the sa	ADUA 22 151 2540 5		
11	Total Suspended Solids (TSS)	DOI 101 -1	25	ADUA 22 LEL CELE		2000
12	Total Hardness as CaCO3			ADUA 22, 151, 2242 2		NS
					200	600

AL & PL as Per IS 10500

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

Analyzed By Priyanka Shrimali



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/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:

Sample Drawn By:

Sample Type: Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2653C/06D/V3/02

Laboratory Representative

End Of South railway Siding(GW) 4.5 L

Water

Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

15/03/2024

17/03/2024 18/03/2024 28/03/2024 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		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 End of Report

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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

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

GW end of South Railway Siding

Sample Quantity: 300 ml Sample Condition:

Satisfactory

Sampling Date:

15/03/2024

Sample Receipt Date: Analysis Start Date:

17/03/2024 01/01/0001

Analysis End Date: Sampling Method:

21/03/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total	coliform	Absent	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

AHMEDABA End of Report ---

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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:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2653C/06D/V3/03

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: 15/03/2024

16/03/2024 17/03/2024

18/03/2024-28/03/2024

24 25±5°C

Sr.No	Parameters	D- 1	E. E. Ivo		
	i didilictory	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

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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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2653C/06D/V3/03 Laboratory Representative

Ambient Air

Ambient Temperature Satisfactory

South railway Siding Office

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

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

15/03/2024 16/03/2024

17/03/2024 18/03/2024-28/03/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Temp	erature	31	°C	GGMPL/SOP/MP/01	NS
13 Relativ	e Humidity	58	%	GGMPL/SOP/MP/01	NS
14 Rainfa	II	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 9	Speed	4.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

End of Report

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CERTIFICATE OF ANALYSIS

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

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

Env. Cond.-Sample Receipt:

Lab/PN/2653C/06D/V3/04 Laboratory Representative Ambient Air End Of South railway Siding Ambient Temperature Satisfactory

 Sampling Start Date:
 15/03/2024

 Sampling End Date:
 16/03/2024

 Sample Receipt Date:
 17/03/2024

 Analysis start- End Date:
 18/03/2024-28/03/2024

Total Sampling hours: 24 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

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

Analyzed By Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 29/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2653C/06D/V3/04 Laboratory Representative

Ambient Air

End Of South railway Siding Ambient Temperature

Satisfactory

Sampling Start Date: 15/03/2024 Sampling End Date: 16/03/2024 17/03/2024

Sample Receipt Date: Analysis start- End Date:

18/03/2024-28/03/2024

Total Sampling hours: 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

Analyzed By Priyanka Shrimali

End of Report

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 29/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

15/03/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2653C/0 6D/V3/05A	South Railway Siding Office	Day Time	dB(A)Leq	IS 4758	66.1	-:
2	Lab/PN/2653C/0 6D/V3/05B	End of south railway siding	Day Time	dB(A)Leq	IS 4758	64.3	
3	Lab/PN/2653C/0 6D/V3/05A	South Railway Siding Office	Night Time	dB(A)Leq	IS 4758	55.1	
4	Lab/PN/2653C/0 6D/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 Shrimali

- End of Report ---

HMEDABAE

Authorized Signatory Manish Kumawat

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