

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



SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/01	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Water	Analysis Start Date:	24/06/2024
Sample Description:	Open Dugwell No-3 (GW)	Analysis End Date:	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	Alkalinity as CaCO ₃	185.00	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	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	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.32	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	38.97	mg/L	APHA 23rd Edn 4500 SO ₄ 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 CaCO ₃	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

Manoj Kumar
Analyzed By
Manoj Kumar



Manish Kumawat
Authorized Signatory
Manish Kumawat

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

Reporting Date : 03/07/2024



SAMPLE DETAILS

Lab ID: Lab/PN/851D/79/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Open Dugwell No-3 (GW)
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 21/06/2024
Sample Receipt Date: 23/06/2024
Analysis Start Date: 24/06/2024
Analysis End Date: 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	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

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Manish Kumawat

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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




SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/02	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Waste Water	Analysis Start Date:	24/06/2024
Sample Description:	W.W. Mine Discharge Water Block No A-B Pit	Analysis End Date:	02/07/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.51	-	IS 3025- Part 11	-
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	-
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 °C for 3 days	20	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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


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Manoj Kumar




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/851D/79/03

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:	Lab/PN/851D/79/03	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Water	Analysis Start Date:	24/06/2024
Sample Description:	Office Colony Water Supply (GW)	Analysis End Date:	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	Alkalinity as CaCO ₃	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	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.34	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	38.77	mg/L	APHA 23rd Edn 4500 SO ₄ 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 CaCO ₃	205.00	mg/L	APHA 23rd Edn 2340 C	200	600

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


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Reporting Date : 03/07/2024



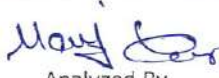
SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/03	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Water	Analysis Start Date:	24/06/2024
Sample Description:	Office Colony Water Supply (GW)	Analysis End Date:	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
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

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 03/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/04	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Water	Analysis Start Date:	24/06/2024
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	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	Alkalinity as CaCO ₃	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	Agreeable	Agreeable
8	pH at 25 °C	7.37	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	36.41	mg/L	APHA 23rd Edn 4500 SO ₄ 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 CaCO ₃	198.00	mg/L	APHA 23rd Edn 2340 C	200	600

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

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Reporting Date : 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/04	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Water	Analysis Start Date:	24/06/2024
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	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
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

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



SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/05	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	24/06/2024-02/07/2024
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
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
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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Tirodi Manganese Mines L1=254.593 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/05	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	24/06/2024-02/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

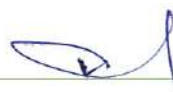
Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	36	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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



Analyzed By
Manoj Kumar





Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/06	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Guest House	Analysis start- End Date:	24/06/2024-02/07/2024
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
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	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Manoj Kumar

Analyzed By
Manoj Kumar



Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/06	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Guest House	Analysis start- End Date:	24/06/2024-02/07/2024
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	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





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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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

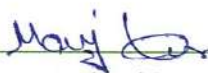


SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/07	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Tirodi Village	Analysis start- End Date:	24/06/2024-02/07/2024
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
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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/07	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Tirodi Village	Analysis start- End Date:	24/06/2024-02/07/2024
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	Temperature	32	°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	3.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/08	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Officer Colony	Analysis start- End Date:	24/06/2024-02/07/2024
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
1	Particulate Matter (PM10)	61.44	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	14.34	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	16.57	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	15.54	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	7.00	µg/m ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6

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

Manoj Kumar

Analyzed By
Manoj Kumar



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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/851D/79/08	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Officer Colony	Analysis start- End Date:	24/06/2024-02/07/2024
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	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



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



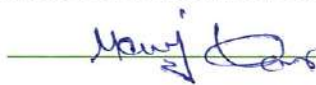
SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sampling By : Laboratory Representative

Sampling Date: 21/06/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/851/79/09A	Near Office Premises	Day Time	dB(A)Leq	IS 4758	64.2	-
2	Lab/PN/851/79/09B	Dumper Loaded	Day Time	db(A)Leq	IS 4758	68.9	-
3	Lab/PN/851/79/09C	Jack Hammer drill Machine	Day Time	db(A)Leq	IS 4758	67.3	-
4	Lab/PN/851/79/09D	Near Excavator	Day Time	db(A)Leq	IS 4758	65.9	-

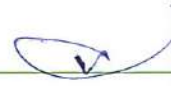
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



Analyzed By
Manoj Kumar



--- End of Report ---



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Page No : 1/1

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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



SAMPLE DETAILS

Lab ID:	Lab/PN/852D/79/01	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	Open Dugwell No.3 (GW)	Analysis End Date:	29/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	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
Analyzed By
Nidhi Shah



H8
Authorized Signatory
Dr. Haragobinda Srichandan

--- End of Report ---

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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



SAMPLE DETAILS


Lab ID:	Lab/PN/852D/79/02	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	29/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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




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Dr. Haragobinda Srichandan

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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	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	29/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	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
Analyzed By
Nidhi Shah



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Dr. Haragobinda Srichandan

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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



SAMPLE DETAILS

Lab ID:	Lab/PN/853D/79/01	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Water	Analysis Start Date:	24/06/2024
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	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	7.52	-	IS 3025-Part 11	6.5 -8.5	No relaxation
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	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

Manoj Kumar
Analyzed By
Manoj Kumar



Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 1/2

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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



SAMPLE DETAILS


Lab ID:	Lab/PN/853D/79/01	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Water	Analysis Start Date:	24/06/2024
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	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
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


Analyzed By
Manoj Kumar



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Manish Kumawat

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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



SAMPLE DETAILS

Lab ID:	Lab/PN/853D/79/02	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Water	Analysis Start Date:	24/06/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	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	-	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	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

AI & PL As Per IS 10500

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

Manoj Kumar
Analyzed By
Manoj Kumar



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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:	Lab/PN/853D/79/02	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Water	Analysis Start Date:	24/06/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	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
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

AI & PL As Per IS 10500

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

Manoj Kumar
Analyzed By
Manoj Kumar



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

Reporting Date: 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/853D/79/03	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Sampling Room	Analysis start- End Date:	24/06/2024-02/07/2024
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
1	Particulate Matter (PM10)	68.87	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.61	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	19.23	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	31.75	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	13.95	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	8.40	µg/m ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6

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

Manoj Kumar

Analyzed By
Manoj Kumar



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

Reporting Date: 03/07/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/853D/79/03	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Sampling Room	Analysis start- End Date:	24/06/2024-02/07/2024
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	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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/853D/79/04	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Dumping Area	Analysis start- End Date:	24/06/2024-02/07/2024
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
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

Reporting Date: 03/07/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/853D/79/04	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Dumping Area	Analysis start- End Date:	24/06/2024-02/07/2024
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	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By

Sampling Date: 21/06/2024
Sample Description: 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= Quantification Limit



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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	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	29/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

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Page No : 1/1

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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



SAMPLE DETAILS

Lab ID:	Lab/PN/854D/79/02	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	29/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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



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Authorized Signatory
Dr. Haragobinda Srichandan

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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:	Lab/PN/855D/79/01	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	Near Pit office water supply	Analysis End Date:	01/07/2024
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	Alkalinity as CaCO ₃	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	Agreeable	Agreeable
8	pH at 25 °C	7.51	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	21.55	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	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 CaCO ₃	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

Vishal
Analyzed By
Jadav Vishal



Manish
Authorized Signatory
Manish Kumawat

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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:	Lab/PN/855D/79/01	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	Near Pit office water supply	Analysis End Date:	01/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
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.

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Vishal
Analyzed By
Jadav Vishal



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/07/2024

M/s Moil Limited

Tirodi Manganese Mines L3=4,419 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/855D/79/02	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	24/06/2024-01/07/2024
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
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



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/855D/79/02	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	23/06/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	24/06/2024-01/07/2024
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	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Jadav Vishal



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 21/06/2024
Sample Description: 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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CERTIFICATE OF ANALYSIS

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

Reporting Date : 29/06/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/856D/79/01	Sampling Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	23/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	29/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	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
Analyzed By
Nidhi Shah



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Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 03/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/862D/79/01	Sampling Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/06/2024
Sample Type:	Water	Analysis Start Date:	25/06/2024
Sample Description:	North Railway siding office (GW)	Analysis End Date:	03/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Specification:	
					AL	PL
1	Alkalinity as CaCO ₃	120.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	72.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.45	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.46	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.22	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	24.50	mg/L	APHA 23rd Edn 4500 SO ₄ 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

Khushbu
Analyzed By
Khushbu Suthar



Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 03/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/862D/79/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: North Railway siding office (GW)

Sampling Date: 22/06/2024
Sample Receipt Date: 24/06/2024
Analysis Start Date: 25/06/2024
Analysis End Date: 03/07/2024

Sample Quantity: 3 L
Sample Condition: Satisfactory

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

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	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 NO ₃ 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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CERTIFICATE OF ANALYSIS

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

Reporting Date : 03/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/862D/79/02	Sampling Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/06/2024
Sample Type:	Water	Analysis Start Date:	25/06/2024
Sample Description:	End of North Railway Siding(GW)	Analysis End Date:	03/07/2024
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	Alkalinity as CaCO ₃	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 SO ₄ 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

Khushbu

Analyzed By
Khushbu Suthar



Manish

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Manish Kumawat

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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



SAMPLE DETAILS

Lab ID: Lab/PN/862D/79/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: End of North Railway Siding(GW)

Sampling Date: 22/06/2024
Sample Receipt Date: 24/06/2024
Analysis Start Date: 25/06/2024
Analysis End Date: 03/07/2024

Sample Quantity: 3 L
Sample Condition: Satisfactory

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

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

Analyzed By
Khushbu Suthar



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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/862D/79/03

Reporting Date: 03/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/862D/79/03	Sampling Start Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/06/2024
Sample Description:	North Railway Siding Office	Analysis start- End Date:	25/06/2024-03/07/2024
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
1	Particulate Matter (PM10)	72.35	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m3	GGMP/L/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	GGMP/L/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
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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/862D/79/03

Reporting Date: 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/862D/79/03	Sampling Start Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/06/2024
Sample Description:	North Railway Siding Office	Analysis start- End Date:	25/06/2024-03/07/2024
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	Temperature	30	°C	GGMP/L/SOP/MP/01	NS
13	Relative Humidity	62	%	GGMP/L/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMP/L/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	GGMP/L/SOP/MP/01:2020	NS

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

Analyzed By
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--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/862D/79/04	Sampling Start Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/06/2024
Sample Description:	End of North Railway Siding	Analysis start- End Date:	25/06/2024-03/07/2024
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
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



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/862D/79/04	Sampling Start Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/06/2024
Sample Description:	End of North Railway Siding	Analysis start- End Date:	25/06/2024-03/07/2024
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	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	65	%	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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Manish Kumawat

Page No : 2/2

CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

22/06/2024

Sample By Laboratory Representative

Sample Description:

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 Limit

Khushbu

Analyzed By
Khushbu Suthar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 01/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/863D/79/01	Sampling Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/06/2024
Sample Type:	Ground Water	Analysis Start Date:	25/06/2024
Sample Description:	North Railway Siding Office (GW)	Analysis End Date:	01/07/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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


Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/864D/79/01	Sampling Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/06/2024
Sample Type:	Ground Water	Analysis Start Date:	26/06/2024
Sample Description:	South railway Siding Office (GW)	Analysis End Date:	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	Alkalinity as CaCO ₃	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	Agreeable
8	pH at 25 °C	7.21	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	23.12	mg/L	APHA 23rd Edn 4500 SO ₄ 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 CaCO ₃	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



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 03/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/864D/79/01	Sampling Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/06/2024
Sample Type:	Ground Water	Analysis Start Date:	26/06/2024
Sample Description:	South railway Siding Office (GW)	Analysis End Date:	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
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

AI & PI as per IS 10500.

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

Analyzed By
Gyanvati Shukla



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 03/07/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/864D/79/02	Sampling Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/06/2024
Sample Type:	Water	Analysis Start Date:	26/06/2024
Sample Description:	End Of South railway Siding(GW)	Analysis End Date:	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	Alkalinity as CaCO ₃	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	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	32.09	mg/L	APHA 23rd Edn 4500 SO ₄ 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 CaCO ₃	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


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Gyanvati Shukla




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CERTIFICATE OF ANALYSIS

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

Reporting Date : 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/864D/79/02	Sampling Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/06/2024
Sample Type:	Water	Analysis Start Date:	26/06/2024
Sample Description:	End Of South railway Siding(GW)	Analysis End Date:	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
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

AI & PI as per IS 10500.

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

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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/864D/79/03	Sampling Start Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/06/2024
Sample Description:	South railway Siding Office	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
1	Particulate Matter (PM10)	60.96	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	14.50	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	19.81	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	13.00	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	12.60	µg/Nm ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6

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

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Gyanvati Shukla



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/864D/79/03	Sampling Start Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/06/2024
Sample Description:	South railway Siding Office	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	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



Authorized Signatory
Manish Kumawat

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

Reporting Date: 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/864D/79/04	Sampling Start Date:	22/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/06/2024
Sample Type:	Ambient Air	Sample 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
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	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/864D/79/05

Reporting Date: 03/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

22/06/2024

Sample By Laboratory Representative

Sample Description:

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

Analyzed By
Gyanvati Shukla



--- End of Report ---

Authorized Signatory
Manish Kumawat

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