

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1688D/79/01

Reporting Date : 28/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

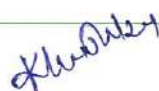
Lab ID:	Lab/PN/1688D/79/01	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Water	Analysis Start Date:	20/08/2024
Sample Description:	Open Dugwell No-3 (GW)	Analysis End Date:	27/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

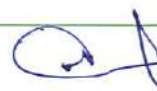
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	168.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	48.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	49.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.39	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.24	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	32.43	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	336.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	195.00	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
Khushbu Sutkar



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Manish Kumawat

Page No : 1/2

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Report Number: GGMPL/PN/1688D/79/01

M/s Moil Limited

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

Reporting Date : 28/08/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1688D/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: 17/08/2024
Sample Receipt Date: 19/08/2024
Analysis Start Date: 20/08/2024
Analysis End Date: 27/08/2024
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	1.59	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1688D/79/02

M/s Moil Limited

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

Reporting Date : 28/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1688D/79/02	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Waste Water	Analysis Start Date:	20/08/2024
Sample Description:	W.W. Mine Discharge Water Block No A-B Pit	Analysis End Date:	27/08/2024
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	7.33	-	IS 3025- Part 11	-
2	Total Suspended Solids	24.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	68.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	22.85	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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Analyzed By
Khushbu Suthar



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1688D/79/03

Reporting Date : 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1688D/79/03	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Water	Analysis Start Date:	20/08/2024
Sample Description:	Office Colony Water Supply (GW)	Analysis End Date:	27/08/2024
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	158.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	57.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.24	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.38	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.61	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	32.43	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	308.00	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	188.00	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 : 28/08/2024



SAMPLE DETAILS

Lab ID: Lab/PN/1688D/79/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Office Colony Water Supply (GW)
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 17/08/2024
Sample Receipt Date: 19/08/2024
Analysis Start Date: 20/08/2024
Analysis End Date: 27/08/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.01	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as per IS 10500.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1688D/79/04

Reporting Date : 28/08/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/1688D/79/04	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Water	Analysis Start Date:	20/08/2024
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	27/08/2024
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	126.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	41.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	50.48	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	1.0	1.5
6	Magnesium as Mg	15.79	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.43	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.03	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	288.00	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	168.00	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)



SAMPLE DETAILS

Lab ID:	Lab/PN/1688D/79/04	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Water	Analysis Start Date:	20/08/2024
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	27/08/2024
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	0.86	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as Per IS 10500.

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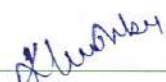


SAMPLE DETAILS

Lab ID:	Lab/PN/1688D/79/05	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	20/08/2024-27/08/2024
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)	55.66	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.31	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.85	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.72	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.49	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)	1.16	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1688D/79/05

Reporting Date: 28/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1688D/79/05	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	20/08/2024-27/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	61	%	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	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Khushbu Suthar



Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1688D/79/06

Reporting Date: 28/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1688D/79/06	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Guest House	Analysis start- End Date:	20/08/2024-27/08/2024
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)	53.21	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.25	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.15	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.72	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.49	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)	1.15	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



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1688D/79/06

Reporting Date: 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1688D/79/06	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Guest House	Analysis start- End Date:	20/08/2024-27/08/2024
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	62	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	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/1688D/79/07

Reporting Date: 28/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1688D/79/07	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Tirodi Village	Analysis start- End Date:	20/08/2024-27/08/2024
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)	60.10	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.53	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.38	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.03	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.52	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)	1.16	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



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ PN/1688D/79/07

Reporting Date: 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1688D/79/07	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Tirodi Village	Analysis start- End Date:	20/08/2024-27/08/2024
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/ SOP/MP/01	NS
13	Relative Humidity	63	%	GGMP/ SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMP/ SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMP/ SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1688D/79/08

Reporting Date: 28/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1688D/79/08	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Officer Colony	Analysis start- End Date:	20/08/2024-27/08/2024
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)	59.27	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)	12.25	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.28	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.42	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.59	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)	1.17	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



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1688D/79/08

Reporting Date: 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1688D/79/08	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Officer Colony	Analysis start- End Date:	20/08/2024-27/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	61	%	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	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1688D/79/09

Reporting Date: 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 17/08/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1688D/7 9/09A	Near Office Premises	Day Time	dB(A)Leq	IS 4758	65.8	-
2	Lab/PN/1688D/7 9/09B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	67.4	-
3	Lab/PN/1688D/7 9/09C	Jack Hammer Drill Machine	Day Time	dB(A)Leq	IS 4758	63.7	-
4	Lab/PN/1688D/7 9/09D	Near Excavator	Day Time	dB(A)Leq	IS 4758	64.7	-

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1689D/79/01

Reporting Date : 27/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/1689D/79/01	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Ground Water	Analysis Start Date:	20/08/2024
Sample Description:	Open Dugwell No.3 (GW)	Analysis End Date:	27/08/2024
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

--- End of Report ---

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1689D/79/02

M/s Moil Limited

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

Reporting Date : 27/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1689D/79/02	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Ground Water	Analysis Start Date:	20/08/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	27/08/2024
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	APIA 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
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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1689D/79/03

M/s Moil Limited

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

Reporting Date : 27/08/2024



SAMPLE DETAILS

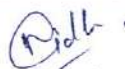
Lab ID:	Lab/PN/1689D/79/03	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Ground Water	Analysis Start Date:	20/08/2024
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	27/08/2024
Sample Quantity:	500 ml	Sampling 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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1690D/79/01

Reporting Date : 30/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1690D/79/01	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Ground Water	Analysis Start Date:	20/08/2024
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	29/08/2024
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	41.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	23.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.53	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.76	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	15.66	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	220.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By
Khushbu Suthar



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1690D/79/01

Reporting Date : 30/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1690D/79/01
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: Sampling Room Water Supply (GW)

Sampling Date: 17/08/2024
Sample Receipt Date: 19/08/2024
Analysis Start Date: 20/08/2024
Analysis End Date: 29/08/2024

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	172.0	mg/L	APHA 23rd Edn 2340 C	200	600
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	1.20	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

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1690D/79/02

Reporting Date : 30/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1690D/79/02	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Ground Water	Analysis Start Date:	20/08/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	29/08/2024
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	142.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	34.47	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	28.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.68	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.28	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.48	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	19.66	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	250.0	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1690D/79/02

Reporting Date : 30/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1690D/79/02	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Ground Water	Analysis Start Date:	20/08/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	29/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	153.0	mg/L	APHA 23rd Edn 2340 C	200	600
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	1.85	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/1690D/79/03

Reporting Date: 30/08/2024

M/s Moil Limited

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

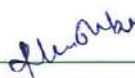


SAMPLE DETAILS

Lab ID:	Lab/PN/1690D/79/03	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Sampling Room	Analysis start- End Date:	20/08/2024-29/08/2024
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)	52.01	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.18	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.08	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.67	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.24	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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1690D/79/03

Reporting Date: 30/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1690D/79/03	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Sampling Room	Analysis start- End Date:	20/08/2024-29/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	63	%	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	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

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--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1690D/79/04

Reporting Date: 30/08/2024

M/s Moil Limited

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



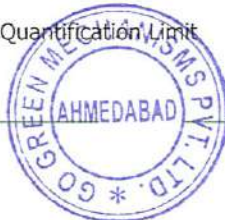
SAMPLE DETAILS

Lab ID:	Lab/PN/1690D/79/04	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Dumping Area	Analysis start- End Date:	20/08/2024-29/08/2024
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)	56.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.35	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.21	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.64	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.59	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

Khushbu
Analyzed By
Khushbu Suthar



Manish
Authorized Signatory
Manish Kumawat

Page No : 1/2

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Report Number : GGMPL/PN/1690D/79/04

Reporting Date: 30/08/2024

M/s Moil Limited

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



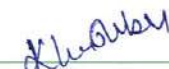
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1690D/79/04	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Dumping Area	Analysis start- End Date:	20/08/2024-29/08/2024
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	62	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Khushbu Sutthar




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Manish Kumawat

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Page No : 2/2

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Report Number: GGMPL/PN/1690D/79/05

Reporting Date: 30/08/2024

M/s Moil Limited

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



TC-7073

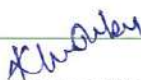
SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 17/08/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1690D/79/05A	Near Sampling Room	Day Time	dB(A)Leq	IS 4758	62.8	-
2	Lab/PN/1690D/79/05C	Near Dumping Area	Day Time	dB(A)Leq	IS 4758	65.9	-

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1691D/79/01

Reporting Date : 27/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1691D/79/01	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Ground Water	Analysis Start Date:	20/08/2024
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	27/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AI	PI
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



Hg
Authorized Signatory
Dr. Haragobinda Srichandan

--- End of Report ---

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1691D/79/02

M/s Moil Limited

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

Reporting Date : 27/08/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1691D/79/02	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Ground Water	Analysis Start Date:	20/08/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	27/08/2024
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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Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1692D/79/01

M/s Moil Limited

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

Reporting Date : 27/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1692D/79/01	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Water	Analysis Start Date:	20/08/2024
Sample Description:	G.W Near Pit Office Water Supply	Analysis End Date:	26/08/2024
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	110.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	44.08	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	43.98	mg/L	IS 3025 -Part 32	250	1000
4	Colour	5	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	10.69	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.82	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	28.04	mg/L	APHA 23rd Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	222.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	154.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS
12	Turbidity	0.7	NTU	APHA 23rd Edition (2130 B):	1	5

AL & PL As Per IS 10500.

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

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Kinjal Damor



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Manish Kumawat

Page No : 1/2

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Reporting Date : 27/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1692D/79/01	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Water	Analysis Start Date:	20/08/2024
Sample Description:	G.W Near Pit Office Water Supply	Analysis End Date:	26/08/2024
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	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.40	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	2.51	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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Kinjal Damor



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Manish Kumawat

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Reporting Date: 27/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1692D/79/02	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	20/08/2024-26/08/2024
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)	53.89	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.57	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)	22.66	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.59	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	5.79	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

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Analyzed By
Kinjal Damor



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Manish Kumawat

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Reporting Date: 27/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1692D/79/02	Sampling Start Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	18/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/08/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	20/08/2024-26/08/2024
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	61	%	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	2.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1692D/79/03

Reporting Date: 27/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 18/08/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1692D/79/03A	Near Pit Office	Day Time	dB(A)Leq	IS 4758	64.6	-

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

Analyzed By
Kinjal Damor



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1693D/79/01

Reporting Date : 27/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1693D/79/01	Sampling Date:	17/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/08/2024
Sample Type:	Ground Water	Analysis Start Date:	20/08/2024
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	27/08/2024
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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1698D/79/01

Reporting Date : 30/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1698D/79/01	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Ground Water	Analysis Start Date:	21/08/2024
Sample Description:	South railway Siding Office (GW)	Analysis End Date:	29/08/2024
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	142.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	36.48	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	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.63	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	19.16	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	242.00	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1698D/79/01

M/s Moil Limited

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

Reporting Date : 30/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1698D/79/01	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Ground Water	Analysis Start Date:	21/08/2024
Sample Description:	South railway Siding Office (GW)	Analysis End Date:	29/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	156.00	mg/L	APHA 23rd Edn 2340 C	200	600
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	0.64	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 Sutkar



Authorized Signatory
Manish Kumawat

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1698D/79/02

Reporting Date : 30/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1698D/79/02	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Ground Water	Analysis Start Date:	21/08/2024
Sample Description:	End Of South railway Siding(GW)	Analysis End Date:	29/08/2024
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	107.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	38.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	44.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.44	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	7.35	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	26.04	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	224.00	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	155.00	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
Khushbu Suthar



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Manish Kumawat

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Report Number: GGMPL/PN/1698D/79/02

Reporting Date : 30/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1698D/79/02	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Ground Water	Analysis Start Date:	21/08/2024
Sample Description:	End Of South railway Siding(GW)	Analysis End Date:	29/08/2024
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	1.50	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

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Reporting Date: 30/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1698D/79/03	Sampling Start Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/08/2024
Sample Description:	South railway Siding Office	Analysis start- End Date:	21/08/2024-29/08/2024
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)	54.26	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.31	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.45	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.86	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.39	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)	1.09	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/1698D/79/03

Reporting Date: 30/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1698D/79/03	Sampling Start Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/08/2024
Sample Description:	South railway Siding Office	Analysis start- End Date:	21/08/2024-29/08/2024
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	60	%	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	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Khushbu Suthar



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1698D/79/04

Reporting Date: 30/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1698D/79/04	Sampling Start Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/08/2024
Sample Description:	End Of South railway Siding	Analysis start- End Date:	21/08/2024-29/08/2024
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)	58.24	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)	11.48	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.02	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.72	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.49	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)	1.15	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/1698D/79/04

Reporting Date: 30/08/2024

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1698D/79/04	Sampling Start Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/08/2024
Sample Description:	End Of South railway Siding	Analysis start- End Date:	21/08/2024-29/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.5	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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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1698D/79/05

Reporting Date: 30/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

18/08/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1698D/79/05A	South Railway Siding Office	Day Time	dB(A)Leq	IS 4758	61.1	-
2	Lab/PN/1698D/79/05B	End of South Railway Siding	Day Time	dB(A)Leq	IS 4758	60.3	-

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

Khushbu
Analyzed By
Khushbu Suthar



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1699D/79/01

Reporting Date : 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1699D/79/01	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Ground Water	Analysis Start Date:	21/08/2024
Sample Description:	South Railway Siding Office (GW)	Analysis End Date:	28/08/2024
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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1699D/79/02

M/s Moil Limited

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

Reporting Date : 28/08/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1699D/79/02	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Ground Water	Analysis Start Date:	21/08/2024
Sample Description:	End of South Railway Siding (GW)	Analysis End Date:	28/08/2024
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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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1700D/79/01

Reporting Date : 28/08/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/1700D/79/01	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Water	Analysis Start Date:	20/08/2024
Sample Description:	North Railway Siding Office (GW)	Analysis End Date:	27/08/2024
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	100.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	35.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	70.47	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.40	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	7.20	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	20.85	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	260.00	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	165.00	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




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1700D/79/01

Reporting Date : 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1700D/79/01	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Water	Analysis Start Date:	20/08/2024
Sample Description:	North Railway Siding Office (GW)	Analysis End Date:	27/08/2024
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	1.77	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

Priyanka
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Priyanka Shrimali



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Manish Kumawat

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Reporting Date : 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1700D/79/02	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Water	Analysis Start Date:	20/08/2024
Sample Description:	End of North Railway Siding (GW)	Analysis End Date:	27/08/2024
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	46.09	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	90.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.25	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.59	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.49	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	31.03	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	320.00	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	208.00	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




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1700D/79/02

Reporting Date : 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1700D/79/02	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Water	Analysis Start Date:	20/08/2024
Sample Description:	End of North Railway Siding (GW)	Analysis End Date:	27/08/2024
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	1.55	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL AS Per IS 10500

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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1700D/79/03

Reporting Date: 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1700D/79/03	Sampling Start Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/08/2024
Sample Description:	North Railway Siding Office	Analysis start- End Date:	20/08/2024-27/08/2024
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)	58.96	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.30	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.85	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.37	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.59	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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1700D/79/03

Reporting Date: 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1700D/79/03	Sampling Start Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/08/2024
Sample Description:	North Railway Siding Office	Analysis start- End Date:	20/08/2024-27/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	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	2.1	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/1700D/79/04

Reporting Date: 28/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1700D/79/04	Sampling Start Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/08/2024
Sample Description:	End of North Railway Siding	Analysis start- End Date:	20/08/2024-27/08/2024
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)	57.33	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	24.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.38	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.84	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.81	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.69	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)	1.04	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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1700D/79/04

Reporting Date: 28/08/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1700D/79/04	Sampling Start Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	19/08/2024
Sample Type:	Ambient Air	Sample Receipt Date:	20/08/2024
Sample Description:	End of North Railway Siding	Analysis start- End Date:	20/08/2024-27/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	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	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1700D/79/05

Reporting Date: 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 18/08/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1700D/79/05A	North Railway Siding Office	Day Time	dB(A)Leq	IS 4758	58.2	-
2	Lab/PN/1700D/79/05B	End of North Railway Siding	Day Time	dB(A)Leq	IS 4758	57.4	-

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


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Report Number: GGMPL/PN/1701D/79/01

Reporting Date : 28/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/1701D/79/01	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Ground Water	Analysis Start Date:	21/08/2024
Sample Description:	North Railway Siding Office (GW)	Analysis End Date:	28/08/2024
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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Dr. Haragobinda Srichandan

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M/s Moil Limited

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

Reporting Date : 28/08/2024



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/1701D/79/02	Sampling Date:	18/08/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	20/08/2024
Sample Type:	Ground Water	Analysis Start Date:	21/08/2024
Sample Description:	End of North Railway Siding (GW)	Analysis End Date:	28/08/2024
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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