

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2471D/79/01

Reporting Date: 07/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2471D/79/01	Sampling Start Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near Mine office	Analysis start- End Date:	28/10/2024-06/11/2024
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)	71.83	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)	14.57	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	29.74	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.39	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)	1.12	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

Kinjal
Analyzed By
Kinjal Damor



P.B. Patel
Authorized Signatory
Payal Patel

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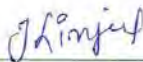


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Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near Mine office	Analysis start- End Date:	28/10/2024-06/11/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	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	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	1.11	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date: 07/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2471D/79/02	Sampling Start Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near guest House	Analysis start- End Date:	28/10/2024-06/11/2024
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)	74.10	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)	12.47	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.99	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.26	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

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Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near guest House	Analysis start- End Date:	28/10/2024-06/11/2024
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	NAAO Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	0.55	m/s	GGMPL/SOP/MP/01:2020	NS

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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/2471D/79/03	Sampling Start Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near Tirodi Village	Analysis start- End Date:	28/10/2024-06/11/2024
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)	74.93	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.38	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.93	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.98	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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Reporting Date: 07/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2471D/79/03	Sampling Start Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near Tirodi Village	Analysis start- End Date:	28/10/2024-06/11/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2471D/79/04

Reporting Date: 07/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2471D/79/04	Sampling Start Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	officer Colony	Analysis start- End Date:	28/10/2024-06/11/2024
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)	71.63	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.44	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.49	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.67	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.83	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)	1.13988	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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TC-7073

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Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	officer Colony	Analysis start- End Date:	28/10/2024-06/11/2024
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	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 IQ 3.4	1
16	Wind Speed	1.11	m/s	GGMPL/SOP/MP/01:2020	NS

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SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

24/10/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2471D/7 9/05A	Near Office Premises	Day Time	dB(A)Leq	IS 4758	61.2	-
2	Lab/PN/2471D/7 9/05B	Dumper Loaded	Day Time	dD(A)Leq	IS 4758	64.7	-
3	Lab/PN/2471D/7 9/05C	Jack Hammer Drill Machine	Day Time	db(A)Leq	IS 4758	63.8	-
4	Lab/PN/2471D/7 9/05D	Near Excavator	Day Time	db(A)Leq	IS 4758	62.1	-

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

Analyzed By
Kinjal Damor



Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2471D/79/06

M/s Moil Limited

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

Reporting Date : 07/11/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2471D/79/06	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Water	Analysis Start Date:	28/10/2024
Sample Description:	G.W open dugewell no.3	Analysis End Date:	06/11/2024
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	143.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	38.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	34.49	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	13.12	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.68	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	26.29	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	280.00	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	150.00	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

Kinjal Damor
Analyzed By
Kinjal Damor



P. B. Patel
Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2471D/79/06

Reporting Date : 07/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2471D/79/06	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Water	Analysis Start Date:	28/10/2024
Sample Description:	G.W open dugewell no.3	Analysis End Date:	06/11/2024
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	1.14	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

J. Damor
Analyzed By
Kinjal Damor



P. Patel
Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2471D/79/07

Reporting Date : 07/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2471D/79/07	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Water	Analysis Start Date:	28/10/2024
Sample Description:	G.W Officer Colony Water Supply	Analysis End Date:	06/11/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	139.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.68	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	0.33	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	13.85	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.68	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	27.87	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	156.00	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
Kinjal Damor
Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2471D/79/07

Reporting Date : 07/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2471D/79/07	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Water	Analysis Start Date:	28/10/2024
Sample Description:	G.W Officer Colony Water Supply	Analysis End Date:	06/11/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

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	0.98	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/2471D/79/08

Reporting Date : 07/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2471D/79/08	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Water	Analysis Start Date:	28/10/2024
Sample Description:	G.W Staff Quaeter Water Supply	Analysis End Date:	06/11/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Scaled

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	38.08	mg/l	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	43.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.34	mg/L	APHA 23rd Edn 4500 F D	1.0	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	7.56	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.37	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	259.00	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	159.00	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

[Signature]
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Kinjal Damor



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2471D/79/08

Reporting Date : 07/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2471D/79/08
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W Staff Quaeter Water Supply
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 25/10/2024
Sample Receipt Date: 26/10/2024
Analysis Start Date: 28/10/2024
Analysis End Date: 06/11/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

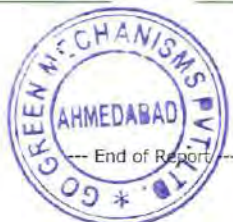
Specification:

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	1.5422	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

g.h. Patel
Analyzed By
Kinjal Damor



P.B. Patel
Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2471D/79/09

M/s Moil Limited

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

Reporting Date : 07/11/2024

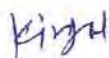


SAMPLE DETAILS

Lab ID:	Lab/PN/2471D/79/09	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Waste Water	Analysis Start Date:	28/10/2024
Sample Description:	W.W mine Dishchargw Water Block No. A-B Pit	Analysis End Date:	06/11/2024
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	7.63	-	IS 3025- Part 11	-
2	Total Suspended Solids	33.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	72.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	20.0	mg/L	IS 3025- Part 44	-
7	Manganese	0.26	mg/L	GGMPL/SOP/W & WW/46	-

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


Analyzed By
Kinjal Damor




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2485D/79/01

M/s Moil Limited

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

Reporting Date : 30/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2485D/79/01	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Ground Water	Analysis Start Date:	26/10/2024
Sample Description:	Open Dugwell No.3 (GW)	Analysis End Date:	30/10/2024
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

Komal
Analyzed By
Komal Yadav



HS
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2485D/79/02

M/s Moil Limited

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

Reporting Date : 30/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2485D/79/02	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Ground Water	Analysis Start Date:	26/10/2024
Sample Description:	Officer Colony Water Supply (GW)	Analysis End Date:	30/10/2024
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

Komal
Analyzed By
Komal Yadav



H
Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2485D/79/03

M/s Moil Limited

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

Reporting Date : 30/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2485D/79/03	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Ground Water	Analysis Start Date:	26/10/2024
Sample Description:	Staff Quarter Water Supply (GW)	Analysis End Date:	30/10/2024
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

Komal
Analyzed By
Komal Yadav



H8
Authorized Signatory
Dr. Haragobinda Srichandan

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2472D/79A/01

Reporting Date: 05/11/2024

M/s Moil Limited

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

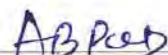


SAMPLE DETAILS

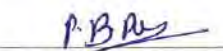
Lab ID:	Lab/PN/2472D/79A/01	Sampling Start Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near Sampling Room	Analysis start- End Date:	28/10/2024-04/11/2024
Env. Cond.-Sampling:	Ambient 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)	73.30	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	18.31	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	34.49	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.06	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.95	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)	1.11	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
Aarmi Patel




Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2472D/79A/01

Reporting Date: 05/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2472D/79A/01	Sampling Start Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near Sampling Room	Analysis start- End Date:	28/10/2024-04/11/2024
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	52	%	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	1.11	m/s	GGMPL/SOP/MP/01:2020	NS

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

AB Patel
Analyzed By
Aarmi Patel



--- End of Report ---

P. B. Patel
Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2472D/79A/02

Reporting Date: 05/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2472D/79A/02	Sampling Start Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near Dumping Area	Analysis start- End Date:	28/10/2024-04/11/2024
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)	68.53	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)	16.51	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.95	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

AB Patel
Analyzed By
Aarmi Patel



P. Patel
Authorized Signatory
Payal Patel

Page No : 1/2

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Report Number : GGMPL/PN/2472D/79A/02

Reporting Date: 05/11/2024

M/s Moil Limited

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



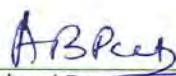
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2472D/79A/02	Sampling Start Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near Dumping Area	Analysis start- End Date:	28/10/2024-04/11/2024
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	53	%	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	0.83	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Aarmi Patel




Authorized Signatory
Payal Patel

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2472D/79A/03

Reporting Date: 05/11/2024

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

Sampling Date:

24/10/2024

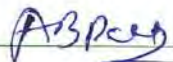
Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2472D/79A/03A	Near Sampling Room	Day Time	dB(A)Leq	IS 4758	58.4	-
2	Lab/PN/2472D/79A/03B	Near Dumping Area	Day Time	dB(A)Leq	IS 4758	61.2	-

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


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Aarmi Patel




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Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2472D/79A/04

M/s Moil Limited

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

Reporting Date : 05/11/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2472D/79A/04	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Water	Analysis Start Date:	28/10/2024
Sample Description:	Sampling Room water Supply	Analysis End Date:	04/11/2024
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	123.00	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	42.99	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	16.04	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.38	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	16.15	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
12	Total Hardness as CaCO ₃	103.00	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

AB Patel

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Aarmi Patel



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2472D/79A/04

Reporting Date : 05/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2472D/79A/04	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Water	Analysis Start Date:	28/10/2024
Sample Description:	Sampling Room water Supply	Analysis End Date:	04/11/2024
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	1.72	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
Aarmi Patel




Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2472D/79A/05

Reporting Date : 05/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2472D/79A/05	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Water	Analysis Start Date:	28/10/2024
Sample Description:	Near Dumping Area water Supply	Analysis End Date:	04/11/2024
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	43.69	mg/l	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	48.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.42	mg/L	APHA 23rd Edn 4500 F D	1.0	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	7.43	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	21.82	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	261.00	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	173.00	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

AB Patel

Analyzed By
Aarmi Patel



P B Patel

Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2472D/79A/05

M/s Moil Limited

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

Reporting Date : 05/11/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2472D/79A/05
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Near Dumping Area water Supply
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 25/10/2024
Sample Receipt Date: 26/10/2024
Analysis Start Date: 28/10/2024
Analysis End Date: 04/11/2024
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	1.87	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
Aarmi Patel



--- End of Report ---

Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2486D/79A/01

M/s Moil Limited

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

Reporting Date : 30/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2486D/79A/01	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Ground Water	Analysis Start Date:	26/10/2024
Sample Description:	Sampling Room Water Supply (GW)	Analysis End Date:	30/10/2024
Sample Quantity:	500 ML	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Parking:	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

Komal
Analyzed By
Komal Yadav



--- End of Report ---

HB
Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2486D/79A/02

M/s Moil Limited

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

Reporting Date : 30/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2486D/79A/02	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Ground Water	Analysis Start Date:	26/10/2024
Sample Description:	Near Dumping Area Water Supply (GW)	Analysis End Date:	30/10/2024
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

Komal
Analyzed By
Komal Yadav



HB
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2473D/79B/01

Reporting Date: 05/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2473D/79B/01	Sampling Start Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	28/10/2024-04/11/2024
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)	76.19	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	19.45	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	29.66	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.59	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.17	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

Analyzed By
Aarmi Patel



Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2473D/79B/01

Reporting Date: 05/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2473D/79B/01	Sampling Start Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/10/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	28/10/2024-04/11/2024
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	1.11	m/s	GGMPL/SOP/MP/01:2020	NS

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

A. Patel
Analyzed By
Aarmi Patel



P. Patel
Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2473D/79B/02

Reporting Date: 05/11/2024

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

Sampling Date:

24/10/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2473D/79B/02	Near Pit Office	Day Time	dB(A)Leq	IS 4758	58.9	-

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

Aarmi Patel

Analyzed By
Aarmi Patel



End of Report

Payal Patel

Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2473D/79B/03

M/s Moil Limited

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

Reporting Date : 05/11/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2473D/79B/03	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Ground Water	Analysis Start Date:	28/10/2024
Sample Description:	Near Pit office water supply	Analysis End Date:	04/11/2024
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	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	35.99	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	14.34	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.36	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	13.49	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
12	Total Hardness as CaCO ₃	158.00	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

A B Patel

Analyzed By
Aarmi Patel



P B Patel

Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2473D/79B/03

Reporting Date : 05/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2473D/79B/03	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Ground Water	Analysis Start Date:	28/10/2024
Sample Description:	Near Pit office water supply	Analysis End Date:	04/11/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Parking:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.3	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	1.82	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
Aarmi Patel



Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2487D/79B/01

M/s Moil Limited

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

Reporting Date : 30/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2487D/79B/01	Sampling Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/10/2024
Sample Type:	Ground Water	Analysis Start Date:	26/10/2024
Sample Description:	Near Pit Office Water Supply (GW)	Analysis End Date:	30/10/2024
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
Komal Yadav




Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2504D/79D/01

Reporting Date: 09/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2504D/79D/01	Sampling Start Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/10/2024
Sample Description:	South railway Siding Office	Analysis start- End Date:	28/10/2024-08/11/2024
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)	73.32	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)	14.61	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.49	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.76	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.83	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


Analyzed By
Kinjal Damor




Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2504D/79D/01

Reporting Date: 09/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2504D/79D/01	Sampling Start Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/10/2024
Sample Description:	South railway Siding Office	Analysis start- End Date:	28/10/2024-08/11/2024
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	1.11	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2504D/79D/02

Reporting Date: 09/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2504D/79D/02	Sampling Start Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/10/2024
Sample Description:	End Of South railway Siding	Analysis start- End Date:	04/11/2024-08/11/2024
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)	71.45	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)	15.26	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.69	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.76	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.27	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

Analyzed By
Kinjal Damor



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2504D/79D/03

Reporting Date: 09/11/2024

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:

25/10/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2504D/79D/03A	South Railway Siding Office	Day Time	dB(A)Leq	IS 4758	57.4	-
2	Lab/PN/2504D/79D/03B	South Railway Siding Office	Day Time	dB(A)Leq	IS 4758	56.9	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2504D/79D/04

M/s Moil Limited

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

Reporting Date : 09/11/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2504D/79D/04	Sampling Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/10/2024
Sample Type:	Ground Water	Analysis Start Date:	04/11/2024
Sample Description:	South railway Siding Office (GW)	Analysis End Date:	08/11/2024
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	115.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	32.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	28.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.20	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	9.48	mg/l	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.42	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	24.89	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	196.00	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

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Kinjal Damor



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2504D/79D/04

Reporting Date : 09/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/2504D/79D/04
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: South railway Siding Office (GW)

Sampling Date: 26/10/2024
Sample Receipt Date: 27/10/2024
Analysis Start Date: 04/11/2024
Analysis End Date: 08/11/2024

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	121.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	NTU (10 = 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	0.46	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2504D/79D/05

Reporting Date : 09/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2504D/79D/05	Sampling Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/10/2024
Sample Type:	Ground Water	Analysis Start Date:	04/11/2024
Sample Description:	End Of South railway Siding(GW)	Analysis End Date:	08/11/2024
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	139.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	44.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	39.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.74	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.71	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	30.75	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	276.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	189.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL as per IS 10500.

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

Kinjal
Analyzed By
Kinjal Damor



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Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2504D/79D/05

Reporting Date : 09/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2504D/79D/05	Sampling Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/10/2024
Sample Type:	Ground Water	Analysis Start Date:	04/11/2024
Sample Description:	End Of South railway Siding(GW)	Analysis End Date:	08/11/2024
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	1.06	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as per IS 10500.

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Analyzed By
Kinjal Damor



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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2518D/79D/01

Reporting Date : 02/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2518D/79D/01	Sampling Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/10/2024
Sample Type:	Ground Water	Analysis Start Date:	28/10/2024
Sample Description:	South Railway Siding Office (GW)	Analysis End Date:	02/11/2024
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

Komal
Analyzed By
Komal Yadav



--- End of Report ---

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Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2518D/79D/02

M/s Moil Limited

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

Reporting Date : 02/11/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2518D/79D/02	Sampling Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/10/2024
Sample Type:	Ground Water	Analysis Start Date:	28/10/2024
Sample Description:	End of South Railway Siding (GW)	Analysis End Date:	02/11/2024
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

Komal
Analyzed By
Komal Yadav



--- End of Report ---

Dr. Haragobinda
Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2503D/79C/01

Reporting Date: 08/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2503D/79C/01	Sampling Start Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/10/2024
Sample Description:	North Railway Siding Office	Analysis start- End Date:	28/10/2024-07/11/2024
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)	72.86	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.65	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.90	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.31	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.73	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

Sachi
Analyzed By
Sachi Patel



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Payal Patel

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2503D/79C/01	Sampling Start Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/10/2024
Sample Description:	North Railway Siding Office	Analysis start- End Date:	28/10/2024-07/11/2024
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	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL(QL=0.001)	µg/m ³	USEPA Method IO 3.4	1
16	Wind Speed	0.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Sachi Patel



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Reporting Date: 08/11/2024

M/s Moil Limited

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

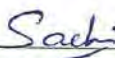


SAMPLE DETAILS

Lab ID:	Lab/PN/2503D/79C/02	Sampling Start Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/10/2024
Sample Description:	End of North Railway Siding	Analysis start- End Date:	28/10/2024-07/11/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	77.52	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.68	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.80	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.81	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	93.69	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


Analyzed By
Sachin Patel




Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2503D/79C/02

Reporting Date: 08/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2503D/79C/02	Sampling Start Date:	25/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	26/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	27/10/2024
Sample Description:	End of North Railway Siding	Analysis start- End Date:	28/10/2024-07/11/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL(QL=0.001)	µg/m ³	USEPA Method IO 3.4	1
16	Wind Speed	1.1	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/2503D/79C/03

Reporting Date: 08/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 25/10/2024

Sample By Laboratory Representative

Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2503D/79C/05A	North Railway Siding Office	Day Time	dB(A)Leq	IS 4758	58.9	-
2	Lab/PN/2503D/79C/05B	End of North Railway Siding	Day Time	dB(A)Leq	IS 4758	57.6	-

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

Sachi

Analyzed By
Sachi Patel



P.B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2503D/79C/04

M/s Moil Limited

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

Reporting Date : 08/11/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2503D/79C/04	Sampling Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/10/2024
Sample Type:	Water	Analysis Start Date:	28/10/2024
Sample Description:	North Railway siding office (GW)	Analysis End Date:	07/11/2024
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	123.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	49.98	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	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	7.68	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.62	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	252.00	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

Sachi
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Sachi Patel



P.B. Patel
Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2503D/79C/04

Reporting Date : 08/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2503D/79C/04	Sampling Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/10/2024
Sample Type:	Water	Analysis Start Date:	28/10/2024
Sample Description:	North Railway siding office (GW)	Analysis End Date:	07/11/2024
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	166.00	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	2.67	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

Sachi

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Sachi Patel



P. B. Patel

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2503D/79C/05

Reporting Date : 08/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2503D/79C/05	Sampling Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/10/2024
Sample Type:	Water	Analysis Start Date:	28/10/2024
Sample Description:	End of North Railway Siding(GW)	Analysis End Date:	07/11/2024
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	134.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	41.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	45.49	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	19.93	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	26.98	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	273.00	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

Sachi
Analyzed By
Sachi Patel



PB Patel
Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2503D/79C/05

Reporting Date : 08/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/2503D/79C/05
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: End of North Railway Siding(GW)

Sampling Date: 26/10/2024
Sample Receipt Date: 27/10/2024
Analysis Start Date: 28/10/2024
Analysis End Date: 07/11/2024

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	104.00	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	2.91	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500

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Sachi

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Sachi Patel



P.B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2519D/79C/01

Reporting Date : 02/11/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2519D/79C/01	Sampling Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/10/2024
Sample Type:	Ground Water	Analysis Start Date:	28/10/2024
Sample Description:	North Railway Siding Office (GW)	Analysis End Date:	02/11/2024
Sample Quantity:	500 ML	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr No	Parameters	Results	Unit	Test Method	AI	PI
1	Total coliform	Absent	per 100ml	API IA 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

Komal
Analyzed By
Komal Yadav



HP
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2519D/79C/02

Reporting Date : 02/11/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2519D/79C/02	Sampling Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	27/10/2024
Sample Type:	Ground Water	Analysis Start Date:	28/10/2024
Sample Description:	End of North Railway Siding (GW)	Analysis End Date:	02/11/2024
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

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Analyzed By
Komal Yadav



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Dr. Haragobinda Srichandan

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