

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2447D/06C/01

Reporting Date: 31/10/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2447D/06C/01	Sampling Start Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/10/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	26/10/2024-30/10/2024
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)	76.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.63	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.98	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.76	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)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Kinjal.
Analyzed By
Kinjal Damor



Manish Kumawat
Authorized Signatory
Manish Kumawat

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Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/10/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	26/10/2024-30/10/2024
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	1.38	m/s	GGMPL/SOP/MP/01:2020	NS

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--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2447D/06C/02

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2447D/06C/02	Sampling Start Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/10/2024
Sample Description:	Near mine Pit	Analysis start- End Date:	26/10/2024-30/10/2024
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)	70.38	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.69	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.14	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.63	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)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2447D/06C/03

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2447D/06C/03	Sampling Start Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/10/2024
Sample Description:	Near Mine Dump	Analysis start- End Date:	26/10/2024-30/10/2024
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)	75.15	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.07	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.49	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.89	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)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2447D/06C/03	Sampling Start Date:	26/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/10/2024
Sample Description:	Near Mine Dump	Analysis start- End Date:	26/10/2024-30/10/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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/2447D/06C/04

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2447D/06C/04	Sampling Start Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/10/2024
Sample Description:	Near Sitapatore Village	Analysis start- End Date:	26/10/2024-30/10/2024
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)	77.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	32.28	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.98	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)	1.02	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: 30/10/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 23/10/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2447D/06C/05A	Near Office Premises	Day Time	dB(A)Leq	IS 4758	63.1	-
2	Lab/PN/2447D/06C/05B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	64.7	-
3	Lab/PN/2447D/06C/05C	Drill machine	Day Time	db(A)Leq	IS 4758	65.9	-
4	Lab/PN/2447D/06C/05C	Near Excavatore	Day Time	db(A)Leq	IS 4758	64.8	-

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Report Number: GGMPL/PN/2447D/06C/06

M/s Moil Limited

Sitapature Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date : 31/10/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2447D/06C/06
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W of Mine Office open dugewell
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 24/10/2024
Sample Receipt Date: 25/10/2024
Analysis Start Date: 26/10/2024
Analysis End Date: 30/10/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	186.00	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	34.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.55	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.68	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	38.19	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	196.00	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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Analyzed By
Kinjal Damor



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/06

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date : 31/10/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2447D/06C/06
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W of Mine Office open dugewell
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 24/10/2024
Sample Receipt Date: 25/10/2024
Analysis Start Date: 26/10/2024
Analysis End Date: 30/10/2024
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	1.92	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/2447D/06C/07

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date : 31/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2447D/06C/07	Sampling Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/10/2024
Sample Type:	Water	Analysis Start Date:	26/10/2024
Sample Description:	G.W of Sitapatore Village Open Dugewell	Analysis End Date:	30/10/2024
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	112.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	34.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	24.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	9.72	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.69	-	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)	173.00	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	125.00	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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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/07

Reporting Date : 31/10/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2447D/06C/07	Sampling Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/10/2024
Sample Type:	Water	Analysis Start Date:	26/10/2024
Sample Description:	G.W of Sitapatore Village Open Dugewell	Analysis End Date:	30/10/2024
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	1.00	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/2447D/06C/08

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date : 31/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2447D/06C/08	Sampling Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/10/2024
Sample Type:	Water	Analysis Start Date:	26/10/2024
Sample Description:	G.W of Mine Permisses Borewell Water	Analysis End Date:	30/10/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/W1/27A
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	30.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	29.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.15	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	10.20	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	13.39	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	193.00	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	120.00	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/08

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date : 31/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2447D/06C/08	Sampling Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/10/2024
Sample Type:	Water	Analysis Start Date:	26/10/2024
Sample Description:	G.W of Mine Permisses Borewell Water	Analysis End Date:	30/10/2024
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	1.04	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/2447D/06C/09

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date : 31/10/2024



TC-7073

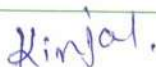
SAMPLE DETAILS

Lab ID: Lab/PN/2447D/06C/09
Sample Drawn By: Laboratory Representative
Sample Type: Waste Water
Sample Description: W.W Of Mine Dishcharge Water
Sample Quantity: 5 L
Sample Condition: Satisfactory

Sampling Date: 24/10/2024
Sample Receipt Date: 25/10/2024
Analysis Start Date: 26/10/2024
Analysis End Date: 30/10/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.43	-	IS 3025- Part 11	-
2	Total Suspended Solids	39.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	56.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	19	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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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2456D/77/01

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date : 30/10/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2456D/77/01	Sampling Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/10/2024
Sample Type:	Ground Water	Analysis Start Date:	25/10/2024
Sample Description:	Mine Office Open Dug Well(GW)	Analysis End Date:	30/10/2024
Sample Quantity:	500 ML	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

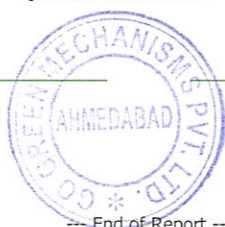
Specification:

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



Dr. Haragobinda Srichandan
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2456D/77/02

Reporting Date : 30/10/2024

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS


Lab ID:	Lab/PN/2456D/77/02	Sampling Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/10/2024
Sample Type:	Ground Water	Analysis Start Date:	25/10/2024
Sample Description:	Sitapatere Village Open Dugwell (GW)	Analysis End Date:	30/10/2024
Sample Quantity:	500 ML	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Scaled

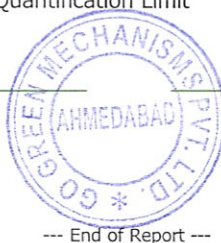
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APIA 9221D 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/2456D/77/03

M/s Moil Limited

Sitapatore Manganese Mines L1=43.350 Ha Site Dist. Balaghat (M.P)

Reporting Date : 30/10/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/2456D/77/03	Sampling Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/10/2024
Sample Type:	Ground Water	Analysis Start Date:	25/10/2024
Sample Description:	Mine Premises Borewell Water (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



--- End of Report ---


Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2448D/77A/01

Reporting Date: 30/10/2024

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)




SAMPLE DETAILS

Lab ID:	Lab/PN/2448D/77A/01	Sampling Start Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/10/2024
Sample Description:	Haul Road	Analysis start- End Date:	25/10/2024-29/10/2024
Env. Cond.-Sampling:	Satisfactory	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Ambient Temperature	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.70	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)	14.47	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.16	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.92	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	6.08	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)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Manoj Kumar




Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2448D/77A/02

Reporting Date: 30/10/2024

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 23/10/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2448D/7 7A/02A	Haul Road	Day Time	dB(A)Leq	IS 4758	56.1	-

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

Analyzed By
Manoj Kumar



Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2448D/77A/03

Reporting Date : 30/10/2024

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS


Lab ID:	Lab/PN/2448D/77A/03	Sampling Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/10/2024
Sample Type:	Water	Analysis Start Date:	25/10/2024
Sample Description:	G.W of Open Dugwell Water Supply	Analysis End Date:	29/10/2024
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	162.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	41.68	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	81.97	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	27.94	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.72	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	32.14	mg/L	APHA 23rd Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	342.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	219.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	14.00	mg/L	APHA 23rd Edition (2540 D)	NS	NS

AL & PL As Per IS 10500

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


Analyzed By
Manoj Kumar




Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2448D/77A/03

Reporting Date : 30/10/2024

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2448D/77A/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W of Open Dugwell Water Supply
Sample Quantity: 3 L
Sample Condition: Satisfactory


Sampling Date: 23/10/2024
Sample Receipt Date: 25/10/2024
Analysis Start Date: 25/10/2024
Analysis End Date: 29/10/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edition (2130 B):	1	5
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)	0.21	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	2.42	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
Manoj Kumar



--- End of Report ---


Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2457D/77A/01

Reporting Date : 30/10/2024

M/s Moil Limited

Sitapatore Manganese Mines L2=4.734 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS


Lab ID:	Lab/PN/2457D/77A/01	Sampling Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/10/2024
Sample Type:	Ground Water	Analysis Start Date:	25/10/2024
Sample Description:	Open Dugwell 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



--- End of Report ---


Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/2449D/78/01

Reporting Date: 06/11/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2449D/78/01	Sampling Start Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/10/2024
Sample Description:	Near Pit No. 2	Analysis start- End Date:	25/10/2024-05/11/2024
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)	63.90	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMP/L/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	24.30	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.99	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.92	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.59	µg/m3	GGMP/L/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Dishant Patel



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2449D/78/02

Reporting Date: 06/11/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2449D/78/02	Sampling Start Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/10/2024
Sample Description:	Near Sukali Village	Analysis start- End Date:	25/10/2024-05/11/2024
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)	63.32	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.15	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.25	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	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Dishant Patel



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2449D/78/02

Reporting Date: 06/11/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2449D/78/02	Sampling Start Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/10/2024
Sample Description:	Near Sukali Village	Analysis start- End Date:	25/10/2024-05/11/2024
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	0.83	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/2449D/78/03

Reporting Date: 06/11/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2449D/78/03	Sampling Start Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/10/2024
Sample Description:	Haul Road	Analysis start- End Date:	25/10/2024-05/11/2024
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)	67.54	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)	18.14	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.16	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	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Dishant Patel



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2449D/78/03

Reporting Date: 06/11/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2449D/78/03	Sampling Start Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/10/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/10/2024
Sample Description:	Haul Road	Analysis start- End Date:	25/10/2024-05/11/2024
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	1.39	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/2449D/78/05

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 06/11/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2449D/78/05
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Sukali Village Borewell (GW)
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 23/10/2024
Sample Receipt Date: 24/10/2024
Analysis Start Date: 25/10/2024
Analysis End Date: 05/11/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	154.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	44.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	20.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.60	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.80	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	11.13	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	238.00	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	175.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As per IS 10500

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

Analyzed By
Dishant Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/05

Reporting Date : 06/11/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2449D/78/05	Sampling Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/10/2024
Sample Type:	Water	Analysis Start Date:	25/10/2024
Sample Description:	Sukali Village Borewell (GW)	Analysis End Date:	05/11/2024
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	1.60	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/2449D/78/06

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 06/11/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2449D/78/06	Sampling Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/10/2024
Sample Type:	Water	Analysis Start Date:	25/10/2024
Sample Description:	Near Pit No-5 Water Supply (GW)	Analysis End Date:	05/11/2024
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	68.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	18.04	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	67.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.61	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.32	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	20.63	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	237.00	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	135.00	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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Report Number: GGMPL/PN/2449D/78/06

Reporting Date : 06/11/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2449D/78/06	Sampling Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/10/2024
Sample Type:	Water	Analysis Start Date:	25/10/2024
Sample Description:	Near Pit No-5 Water Supply (GW)	Analysis End Date:	05/11/2024
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	1.94	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/2449D/78/07

Reporting Date : 06/11/2024

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)



SAMPLE DETAILS

Lab ID:	Lab/PN/2449D/78/07	Sampling Date:	23/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/10/2024
Sample Type:	Waste Water	Analysis Start Date:	25/10/2024
Sample Description:	Mine Discharge Water (WW)	Analysis End Date:	05/11/2024
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	7.41	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	35.10	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	104.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.2	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	27	mg/L	IS 3025- Part 44	30
7	Manganese	0.525	mg/L	GGMPL/SOP/W & WW/46	-

Norms As Per CTO

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

Analyzed By
Dishant Patel



Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2458D/78/01

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 30/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2458D/78/01	Sampling Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/10/2024
Sample Type:	Ground Water	Analysis Start Date:	25/10/2024
Sample Description:	Sukali Village Borewell (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



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Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2458D/78/02

M/s Moil Limited

Sukali Manganese Mine L1= 79.550 Ha Site Dist. Balaghat (M.P)

Reporting Date : 30/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2458D/78/02	Sampling Date:	24/10/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/10/2024
Sample Type:	Ground Water	Analysis Start Date:	25/10/2024
Sample Description:	Near Pit No-5 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

--- End of Report ---

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