

Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426 Gujarat. INDIA

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/835D/77/01

M/s Moil Limited

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

Reporting Date: 02/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/835D/77/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

Mine Discharge Water(WW)

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

20/06/2024

22/06/2024 22/06/2024

01/07/2024

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.45	-	IS 3025- Part 11	
2	Total Suspended Solids	34.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	68.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	6.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	22	mg/L	IS 3025- Part 44	- 4
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By Priyanka Shrimali

--- End of Report ---

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/835D/77/02

M/s Moil Limited

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

Reporting Date: 02/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/835D/77/02

Laboratory Representative

Water Mine Office Open dugwell(GW)

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

20/06/2024

22/06/2024 22/06/2024

01/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	149.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	48.09	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	40.98	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	20.65	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.75	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	42.50	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	280.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	14.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	205.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

Analyzed By Priyanka Shrimali **Authorized Signatory** Manish Kumawat

Page No: 1/2



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M/s Moil Limited

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Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/835D/77/02

Laboratory Representative

Water Mine Office Open dugwell(GW)

3 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

20/06/2024

22/06/2024 22/06/2024

01/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3 No
16	Nitrate	3.53	mg/L	APHA 23rd Edn 4500 NO3 B	45	relaxation

AL & PL As Per IS 10500.

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

Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/835D/77/03

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/835D/77/03

Laboratory Representative

Sitapatore Village Open Dugwell(GW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

20/06/2024

22/06/2024 22/06/2024

01/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	152.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	35.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	40.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.35	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.79	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeabl	e Agreeabl
8	pH at 25 °C	7.78	-	IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	30.50	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	250.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	16.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	154.00	mg/L	APHA 23rd Edn 2340 C	200	600

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M/s Moil Limited

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Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/835D/77/03

Laboratory Representative

Water

Sitapatore Village Open Dugwell(GW)

3 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

20/06/2024

22/06/2024 22/06/2024

01/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3 No
16	Nitrate	1.97	mg/L	APHA 23rd Edn 4500 NO3 B	45	relaxation

AL & PL As Per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/835D/77/04

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/835D/77/04

Laboratory Representative

Water

Mine Premises Borewll water (GW)

3 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

20/06/2024

22/06/2024 22/06/2024

01/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	160.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	45.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.14	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.85	7	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	31.58	mg/L	APHA 23rd Edn 4500 SO4 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 CaCO3	185.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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Analyzed By Priyanka Shrimali

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

Reporting Date: 02/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/835D/77/04

Laboratory Representative

Mine Premises Borewll water (GW) 3 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

20/06/2024

22/06/2024 22/06/2024 01/07/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.98	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

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--- End of Report ---

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M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/835D/77/05

Laboratory Representative

Ambient Air Nr Mine Office

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

20/06/2024

21/06/2024 22/06/2024

22/06/2024-01/07/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.75	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.15	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.78	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.48	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.32	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.60	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	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

Analyzed By Priyanka Shrimali

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

Authorized Signatory Manish Kumawat

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/835D/77/05

Laboratory Representative

Ambient Air Nr Mine Office

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

20/06/2024

21/06/2024 22/06/2024

22/06/2024-01/07/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

Priyanka Shrimali

NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Lim AHMEDABA 9 End of Report --

Authorized Signatory Manish Kumawat

Page No: 2/2



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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/835D/77/06

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/835D/77/06

Laboratory Representative

Ambient Air Nr Mine Pit

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

20/06/2024

21/06/2024 22/06/2024

22/06/2024-01/07/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.28	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	43.32	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	18.48	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.55	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.37	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.00	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	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 Priyanka Shrimali **Authorized Signatory** Manish Kumawat

Page No: 1/2



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/835D/77/06

M/s Moil Limited

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

Reporting Date: 02/07/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/835D/77/06

Laboratory Representative Ambient Air Nr Mine Pit

Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

20/06/2024 21/06/2024

22/06/2024

22/06/2024-01/07/2024 24

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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali nd of Report

Authorized Signatory Manish Kumawat

Page No: 2/2



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/835D/77/07

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/835D/77/07

Laboratory Representative

Ambient Air Nr Mine Dump

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

20/06/2024

21/06/2024 22/06/2024

22/06/2024-01/07/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	75.98	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	45.40	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.39	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.41	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.27	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.40	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	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 Priyanka Shrimali AHMEDARAD W

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/835D/77/07

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/835D/77/07

Laboratory Representative

Ambient Air Nr Mine Dump

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 20/06/2024

21/06/2024 22/06/2024

22/06/2024-01/07/2024

24 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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali AHMEDABAD

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/835D/77/08

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/835D/77/08

Laboratory Representative

Ambient Air

Nr Sitapatore Village Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

20/06/2024

21/06/2024 22/06/2024

22/06/2024-01/07/2024

24

25±5°C

Standard	NAAQ SI	Test Method	Unit	Results	Parameters	No
100	10	IS 5182- Part 23	μg/m3	68.98	Particulate Matter (PM10)	
60	6	GGMPL/SOP/AA/60 Issue No.02 August 01	μg/m3	40.82	Particulate Matter (PM2.5)	2
80	8	IS 5182-Part 2	µg/m3	13.86	Sulphur Dioxide (SO2)	}
80	8	IS 5182- Part 6	µg/m3	21.85	Nitrogen Dioxide (NO2)	}
180	18	IS 5182- Part 9	µg/m3	12.05	Ozone (O3)	
400	40	GGMPL/SOP/AA/62 Issue No.02 August 01	μg/Nm3	16.80	Ammonia (NH3)	,
5	5	IS 5182- Part 11	µg/m3	BQL (QL=2.5)	Benzene	
1	1	Is 5182- Part 12	ng/m3	BQL (QL=0.5)	Benzo(a) pyrene	
4	4	IS 5182- Part 10	mg/m3	1.13	Carbon Monoxide (CO)	
20	2	USEPA Method IO 3.4	ng/m3	BQL (QL=5)	Nickel as Ni)
6	6	USEPA Method IO 3.4	ng/m3	BQL (QL=1)	Arsenic as As	1 /
		JSEPA Method IO 3.4	ng/m3	BQL (QL=1)	AISEIIL AS AS	1 /

Analyzed By Priyanka Shrimali

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

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/835D/77/08

M/s Moil Limited

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

Reporting Date: 02/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/835D/77/08

Laboratory Representative

Ambient Air

Nr Sitapatore Village Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 20/06/2024

21/06/2024 22/06/2024

22/06/2024-01/07/2024

24

25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	33	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS
	Temperature Relative Humidity Rainfall Lead	Temperature 33 Relative Humidity 56 Rainfall 0.0 Lead BQL (QL=0.001)	Temperature 33 °C Relative Humidity 56 % Rainfall 0.0 mm Lead BQL (QL=0.001) µg/m3	Temperature 33 °C GGMPL/SOP/MP/01 Relative Humidity 56 % GGMPL/SOP/MP/01 Rainfall 0.0 mm GGMPL/SOP/MP/01:2020 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Analyzed By Priyanka Shrimali Quantification (Imit

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/835D/77/09

M/s Moil Limited

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

Reporting Date: 02/07/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

20/06/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/835D/77 /09A	Near Office Premises	Day Time	dB(A)Leq	IS 4758	67.2	
2	Lab/PN/835D/77 /09B	Dumper Road	Day Time	dB(A)Leq	IS 4758	68.1	- 10
3	Lab/PN/835D/77 /09C	Drill Machine	Day Time	dB(A)Leq	IS 4758	69.1	_
4	Lab/PN/835D/77 /09D	Near Exacavatore	Day Time	dB(A)Leq	IS 4758	68.5	

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

Analyzed By Priyanka Shrimali

End of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/836D/77/01

M/s Moil Limited

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

Reporting Date: 28/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/836D/77/01

Laboratory Representative

Ground Water Mine Office Open Dug Well (GW)

500 ml Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

20/06/2024

22/06/2024 24/06/2024 28/06/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total	coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2 E. coli		Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/836D/77/02

M/s Moil Limited

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

Reporting Date: 28/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/836D/77/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Sitapatere Village Open Dugwell (GW)

Sample Quantity: Sample Condition:

500 ml Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

20/06/2024

22/06/2024 24/06/2024

28/06/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total co	liform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2 E. coli		Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Nidhi Shah

--- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/836D/77/03

M/s Moil Limited

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

Reporting Date: 28/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/836D/77/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Mine Premises Borewell Water (GW)

Sample Quantity: Sample Condition:

500 ml Satisfactory Sampling Date:

Data

20/06/2024

Sample Receipt Date: Analysis Start Date:

22/06/2024 24/06/2024

Analysis End Date: Sampling Method:

28/06/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

Authorized Signatory

Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/833D/77/01

M/s Moil Limited

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

Reporting Date: 29/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/833D/77/01

Sample Drawn By:

Sample Quantity:

Sample Condition:

Laboratory Representative

Sample Type:

Satisfactory

Sample Description:

Open Dugwell Water Supply (GW)

Sample Receipt Date: Analysis Start Date:

Sampling Date:

Analysis End Date:

Sampling Method:

Sealed

Packing:

GGMPL/WI/27A

20/06/2024

22/06/2024

22/06/2024

28/06/2024

						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	138.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	50.10	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	107.96	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.17	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.30	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.68		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.50	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	350.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	20.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as Per IS 10500.

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/833D/77/01

M/s Moil Limited

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

Reporting Date: 29/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/833D/77/01

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

Open Dugwell Water Supply (GW)

Sampling Date:

20/06/2024 22/06/2024

Sample Receipt Date: Analysis Start Date:

22/06/2024

Analysis End Date:

28/06/2024

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

Sample Quantity: Sample Condition: 3 L

Satisfactory

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	225.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	3.9	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	relaxatio 0.3
16	Nitrate	3.57	mg/L	APHA 23rd Edn 4500 NO3 B	45	No
					15	relaxatio

AL & PL as Per IS 10500.

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

Analyzed By Priyanka Shrimali



Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/833D/77/02

M/s Moil Limited

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

Reporting Date: 29/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/833D/77/02

Laboratory Representative

Ambient Air Haul Road

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 21/06/2024

22/06/2024 22/06/2024

22/06/2024-28/06/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.62	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.15	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.25	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.38	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.10	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.80	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.01	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali AHMEDABAB P

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/833D/77/02

M/s Moil Limited

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

Reporting Date: 29/06/2024



TC-7073

SAMPLE DETAILS

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

Lab/PN/833D/77/02 Laboratory Representative Ambient Air Haul Road Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

21/06/2024 22/06/2024 22/06/2024

22/06/2024-28/06/2024 24

25±5°C

Sr.No Parameters	Results	Unit	Test Method	NAAQ Standards
12 Temperature	28	°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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/833D/77/03

M/s Moil Limited

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

Reporting Date: 29/06/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

20/06/2024

Source Noise

Sr.No Lab Id 1 Lab/PN/833D/77 /03/01	Location Haul Road	Time Day Time	Unit dB(A)Leq	Test Method IS 4758	Reading 62.3	Norms -

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

Priyanka Shrimali

--- End of Report ---

AHMEDABA

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/834D/77/01

M/s Moil Limited

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

Reporting Date: 29/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/834D/77/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Open Dugwell Water Supply (GW)

Sample Quantity: Sample Condition: 500 ml

Satisfactory

Sampling Date:

20/06/2024

Sample Receipt Date:

22/06/2024

Analysis Start Date: Analysis End Date:

24/06/2024 28/06/2024

Sampling Method:

GGMPL/WI/27A

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. col	li	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

Authorized Signatory

Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN837D/78/01

M/s Moil Limited

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

Reporting Date: 01/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

3 L Satisfactory

Lab/PN837D/78/01

Ground Water

Laboratory Representative

G.W sukali village Borewell

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

20/06/2024

22/06/2024

24/06/2024

01/07/2024

Specification:

Decimality which is	Properties	T CONTROL	PROCES NAVABLED TO	14/01	SAR
Parameters	Results	Unit	Test Method	AL	PL
Alkalinity as CaCO3	95.00	mg/L	APHA 23rd Edn 2320 B	200	600
Calcium as Ca	24.85	mg/L	APHA 23rd Edn 3500 Ca B	75	200
Chloride	63.98	mg/L	IS 3025- Part 32	250	1000
Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
Fluoride	0.35	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
Magnesium as Mg	18.95	mg/L	APHA 23rd Edn 3500 Mg B	30	100
Odour	Agreeable	**	IS 3025- Part 5	Agreeable	Agreeable
pH at 25 °C	7.12		IS 3025- Part 11	6.5-8.5	No relaxation
Sulphate	22.44	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
Total Dissolved Solids (TDS)	239.00	mg/L	APHA 23rd Edn 2540 C	500	2000
Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
Total Hardness as CaCO3	140.00	mg/L	APHA 23rd Edn 2340 C	200	600
	Calcium as Ca Chloride Colour Fluoride Magnesium as Mg Odour pH at 25 °C Sulphate Total Dissolved Solids (TDS) Total Suspended Solids (TSS)	Alkalinity as CaCO3 95.00 Calcium as Ca 24.85 Chloride 63.98 Colour BQL (QL=1) Fluoride 0.35 Magnesium as Mg 18.95 Odour Agreeable pH at 25 °C 7.12 Sulphate 22.44 Total Dissolved Solids (TDS) 239.00 Total Suspended Solids (TSS) 10.00	Alkalinity as CaCO3 95.00 mg/L Calcium as Ca 24.85 mg/L Chloride 63.98 mg/L Colour BQL (QL=1) CU Fluoride 0.35 mg/L Magnesium as Mg 18.95 mg/L Odour Agreeable - pH at 25 °C 7.12 - Sulphate 22.44 mg/L Total Dissolved Solids (TDS) 239.00 mg/L Total Suspended Solids (TSS) 10.00 mg/L	Alkalinity as CaCO3 95.00 mg/L APHA 23rd Edn 2320 B Calcium as Ca 24.85 mg/L APHA 23rd Edn 3500 Ca B Chloride 63.98 mg/L IS 3025- Part 32 Colour BQL (QL=1) CU IS 3025- Part 4 Fluoride 0.35 mg/L APHA 23rd Edn 4500 F D Magnesium as Mg 18.95 mg/L APHA 23rd Edn 3500 Mg B Odour Agreeable - IS 3025- Part 5 pH at 25 °C 7.12 - IS 3025- Part 11 Sulphate 22.44 mg/L APHA 23rd Edn 4500 SO4 E Total Dissolved Solids (TDS) 239.00 mg/L APHA 23rd Edn 2540 C Total Suspended Solids (TSS) 10.00 mg/L APHA 23rd Edn 2540 D	Alkalinity as CaCO3 95.00 mg/L APHA 23rd Edn 2320 B 200 Calcium as Ca 24.85 mg/L APHA 23rd Edn 3500 Ca B 75 Chloride 63.98 mg/L IS 3025- Part 32 250 Colour BQL (QL=1) CU IS 3025- Part 4 5 Fluoride 0.35 mg/L APHA 23rd Edn 4500 F D 1.0 Magnesium as Mg 18.95 mg/L APHA 23rd Edn 3500 Mg B 30 Odour Agreeable - IS 3025- Part 5 Agreeable pH at 25 °C 7.12 - IS 3025- Part 11 6.5-8.5 Sulphate 22.44 mg/L APHA 23rd Edn 4500 SO4 E 200 Total Dissolved Solids (TDS) 239.00 mg/L APHA 23rd Edn 2540 C 500 Total Suspended Solids (TSS) 10.00 mg/L APHA 23rd Edn 2540 D NS

AL & PL As Per IS 10500

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN837D/78/01

M/s Moil Limited

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

Reporting Date: 01/07/2024

SAMPLE DETAILS

Lab/PN837D/78/01 Lab ID: Laboratory Representative Sample Drawn By:

Sample Type: **Ground Water**

Sample Description: G.W sukali village Borewell

Sample Quantity:

Sample Condition: Satisfactory Sampling Date: 20/06/2024

Sample Receipt Date: 22/06/2024 Analysis Start Date: 24/06/2024 Analysis End Date: 01/07/2024

Sampling Method: GGMPL/WI/27A

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.23	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 Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/837D/78/02

M/s Moil Limited

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

Reporting Date: 01/07/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/837D/78/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

G.W Near Pit No 5 Water Supply

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

20/06/2024

22/06/2024

24/06/2024

01/07/2024

Specification:

					'	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	110.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	26.05	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	70.98	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	17.50	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	24.40	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	251.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	137.00	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 Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/837D/78/02

M/s Moil Limited

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

Reporting Date: 01/07/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/837D/78/02
Sample Drawn By: Laboratory Representative

Sample Type: Ground Water

Sample Description: G.W Near Pit No 5 Water Supply

Sample Quantity: 3 L

Sample Condition: Satisfactory

Sampling Date: 20/06/2024 Sample Receipt Date: 22/06/2024

Analysis Start Date: 24/06/2024
Analysis End Date: 01/07/2024
Sampling Method: GGMPL/WI/27A

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.85	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

ABRUT _

Analyzed By Aarmi Patel AHMEDABAD CO

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/837D/78/03

M/s Moil Limited

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

Reporting Date: 01/07/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/837D/78/03

Laboratory Representative

Sampling Date: Sample Receipt Date:

20/06/2024 22/06/2024

Sample Type:

Waste Water

Satisfactory

Analysis Start Date: Analysis End Date: 24/06/2024 01/07/2024

Sample Description:

W.W Mine discharge Water 5 L

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

3 L

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.62	-	IS 3025- Part 11	5.5 To 9.0
2	Total Suspended Solids	48.00	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	110.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	3.40	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	27	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	M

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

ABRUS

Analyzed By Aarmi Patel AHMEDABAD *

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/837D/78/04

M/s Moil Limited

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

Reporting Date: 01/07/2024



20/06/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/837D/78/04

Laboratory Representative

Ambient Air Near Pit No.2

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: 21/06/2024 Sample Receipt Date: 22/06/2024 24/06/2024-01/07/2024

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing: 25±5°C

ir.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.82	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	43.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.90	µд/т3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.76	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11,42	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.80	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.95	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

Analyzed By Aarmi Patel

Quahafication Limit

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/837D/78/04

M/s Moil Limited

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

Reporting Date: 01/07/2024



SAMPLE DETAILS

Lab ID:Lab/PN/837D/78/04Sampling Start Date:20/06/2024Sample Drawn By:Laboratory RepresentativeSampling End Date:21/06/2024Sample Type:Ambient AirSample Receipt Date:22/06/2024

Sample Type: Ambient Air Sample Receipt Date: 22/06/2024
Sample Description: Near Pit No.2 Analysis start- End Date: 24/06/2024-01/07/2024

Env. Cond.-Sampling: Ambient Temperature Total Sampling hours: 24
Env. Cond.-Sample Receipt: Satisfactory Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Tempe	ature	33	°C	GGMPL/SOP/MP/01	NS
13 Relative	Humidity	58	%	GGMPL/SOP/MP/01	NS
14 Rainfall		0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 Lead		BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 Wind S	peed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel

--- End of Report ---

AHMEDABAI

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/837D/78/05

M/s Moil Limited

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

Reporting Date: 01/07/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/837D/78/05

Laboratory Representative

Ambient Air

Near Sukali Village Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

20/06/2024

21/06/2024 22/06/2024

24/06/2024-01/07/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.83	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.16	µg/m3	IS 5182-Part 2	80
4.	Nitrogen Dioxide (NO2)	28.52	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.27	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.20	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.01	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 AHMEDABAD

Authorized Signatory Manish Kumawat

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/837D/78/05

M/s Moil Limited

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

Reporting Date: 01/07/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

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

Env. Cond.-Sample Receipt:

Lab/PN/837D/78/05

Laboratory Representative Ambient Air

Near Sukali Village Ambient Temperature

Satisfactory

Sampling Start Date: 20/06/2024 Sampling End Date: 21/06/2024 Sample Receipt Date: 22/06/2024

Analysis start- End Date: 24/06/2024-01/07/2024

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

Parameters	Results	Unit	Test Method	NAAQ Standards
rature	33	°C	GGMPL/SOP/MP/01	NS
e Humidity	58	%	GGMPL/SOP/MP/01	NS
	0.0	mm	GGMPL/SOP/MP/01:2020	NS
	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
peed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS
-	Parameters erature te Humidity Speed	reture 33 re Humidity 58 U 0.0 BQL (QL=0.001)	reture 33 °C re Humidity 58 % II 0.0 mm BQL (QL=0.001) μg/m3	reture 33 °C GGMPL/SOP/MP/01 re Humidity 58 % GGMPL/SOP/MP/01 0.0 mm GGMPL/SOP/MP/01:2020 BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Analyzed By Aarmi Patel AHMEDABAD OF End of Report

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Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/837D/78/06

M/s Moil Limited

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

Reporting Date: 01/07/2024



20/06/2024

21/06/2024

22/06/2024

SAMPLE DETAILS

Arsenic as As

Lab ID:Lab/PN/837D/78/06Sampling Start Date:Sample Drawn By:Laboratory RepresentativeSampling End Date:Sample Type:Ambient AirSample Receipt Date:Sample Description:Haul RoadAnalysis start- End Date:

Sample Description: Haul Road Analysis start- End Date: 24/06/2024-01/07/2024
Env. Cond.-Sampling: Ambient Temperature Total Sampling hours: 24
Env. Cond.-Sample Receipt: Satisfactory Env. Cond.-Testing: 25±5°C

BQL (QL=1)

Results Unit Sr.No Parameters Test Method NAAQ Standards Particulate Matter (PM10) 71.42 IS 5182- Part 23 1 µg/m3 100 GGMPL/SOP/AA/60 Issue No.02 Particulate Matter (PM2.5) 42,49 ца/т3 60 August 01 Sulphur Dioxide (SO2) 15.96 µg/m3 IS 5182-Part 2 80 Nitrogen Dioxide (NO2) 26.42 IS 5182- Part 6 μg/m3 80 Ozone (O3) 10.78 IS 5182- Part 9 µg/m3 180 GGMPL/SOP/AA/62 Issue No.02 9.80 ug/Nm3 Ammonia (NH3) 400 August 01 Benzene BQL (QL=2.5) µg/m3 15 5182- Part 11 ng/m3 Benzo(a) pyrene BQL (QL=0.5) Is 5182- Part 12 Carbon Monoxide (CO) 1.10 mg/m3 IS 5182- Part 10 4 Nickel as Ni USEPA Method IO 3.4 to BQL (QL=5) ng/m3 20

ng/m3

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

USEPA Method IO 3.4

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/837D/78/06

M/s Moil Limited

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

Reporting Date: 01/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/837D/78/06 Laboratory Representative

Ambient Air Haul Road

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: 21/06/2024 Sample Receipt Date: 22/06/2024

Analysis start- End Date:

24/06/2024-01/07/2024

Total Sampling hours: Env. Cond.-Testing:

25±5°C

24

20/06/2024

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	33	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS
	Temperature Relative Humidity Rainfall Lead	Temperature 33 Relative Humidity 58 Rainfall 0.0 Lead BQL (QL=0.001)	Temperature 33 °C Relative Humidity 58 % Rainfall 0.0 mm Lead BQL (QL=0.001) μg/m3	Temperature 33 °C GGMPL/SOP/MP/01 Relative Humidity 58 % GGMPL/SOP/MP/01 Rainfall 0.0 mm GGMPL/SOP/MP/01:2020 Lead BQL (QL=0.001) µg/m3 USEPA Method IO 3.4

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

Analyzed By

Aarmi Patel

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/837D/78/07

M/s Moil Limited

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

Reporting Date: 01/07/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

20/06/2024

Sample Description:

Source Noise

Lab Id	Location	Time	Unit	Test Method	Reading	Norms
Lab/PN838D/78/ 07A	Near Pit No-02	Day Time	dB(A)Leq	IS 4758	64.9	-
Lab/PN838D/78/	Near Sukali Village	Day Time	dB(A)Leq	IS 4758	61.3	
Lab/PN838D/78/	Haul Road	Day Time	dB(A)Leq	IS 4758	67.9	
	Lab/PN838D/78/ 07A Lab/PN838D/78/ 07B	Lab/PN838D/78/ Near Pit No-02 Lab/PN838D/78/ Near Sukali Village Lab/PN838D/78/ Haul Road	Lab/PN838D/78/ Near Pit No-02 Day Time 07A Lab/PN838D/78/ Near Sukali Village Day Time Lab/PN838D/78/ Haul Road Day Time	Lab/PN838D/78/ 07A Near Pit No-02 Day Time dB(A)Leq Lab/PN838D/78/ 07B Near Sukali Village Day Time dB(A)Leq Lab/PN838D/78/ Lab/PN838D/78/ Haul Road Day Time dB(A)Leq	Lab/PN838D/78/ 07A Near Pit No-02 Day Time dB(A)Leq IS 4758 Lab/PN838D/78/ 07B Near Sukali Village Day Time dB(A)Leq IS 4758 Lab/PN838D/78/ Lab/PN838D/78/ Haul Road Day Time dB(A)Leq IS 4758	Lab/PN838D/78/ Near Pit No-02 Day Time dB(A)Leq IS 4758 64.9 Lab/PN838D/78/ Near Sukali Village Day Time dB(A)Leq IS 4758 61.3 Lab/PN838D/78/ Haul Road Day Time dB(A)Leq IS 4758 67.9

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

Aarmi Patel

* End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/838D/78/01

M/s Moil Limited

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

Reporting Date: 29/06/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Sukali Village Borewell (GW) 500 ml

Laboratory Representative

Lab/PN/838D/78/01

Satisfactory

Ground Water

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

20/06/2024

22/06/2024 24/06/2024 28/06/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	P	arameters	Results	Unit	Test Method	AL	PL
1	Total coliform		Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli		Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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



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Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/838D/78/02

M/s Moil Limited

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

Reporting Date: 29/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/838D/78/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description: Sample Quantity: Sample Condition:

Near Pit No-5 Water Supply (GW)

500 ml

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

20/06/2024

22/06/2024 24/06/2024

28/06/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

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