

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




SAMPLE DETAILS

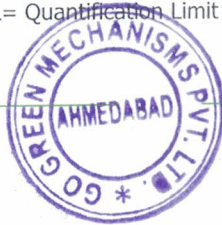
Lab ID: Lab/PN/835D/77/01
Sample Drawn By: Laboratory Representative
Sample Type: Waste Water
Sample Description: Mine Discharge Water(WW)
Sample Quantity: 5 L
Sample Condition: Satisfactory

Sampling Date: 20/06/2024
Sample Receipt Date: 22/06/2024
Analysis Start Date: 22/06/2024
Analysis End Date: 01/07/2024
Sampling Method: GGMPL/W1/27A
Packing: 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 °C for 3 days	22	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


Analyzed By
Priyanka Shrimali



--- End of Report ---


Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/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



SAMPLE DETAILS


Lab ID:	Lab/PN/835D/77/02	Sampling Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/06/2024
Sample Type:	Water	Analysis Start Date:	22/06/2024
Sample Description:	Mine Office Open dugwell(GW)	Analysis End Date:	01/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

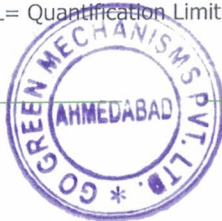
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	280.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	14.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	205.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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


Analyzed By
Priyanka Shrimali




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Manish Kumawat

Page No : 1/2

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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: Lab/PN/835D/77/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Mine Office Open dugwell(GW)
Sample Quantity: 3 L
Sample Condition: Satisfactory


Sampling Date: 20/06/2024
Sample Receipt Date: 22/06/2024
Analysis Start Date: 22/06/2024
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	3.53	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
Priyanka Shrimali




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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 02/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/835D/77/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Mine Premises Borewell water (GW)
Sample Quantity: 3 L
Sample Condition: Satisfactory


Sampling Date: 20/06/2024
Sample Receipt Date: 22/06/2024
Analysis Start Date: 22/06/2024
Analysis End Date: 01/07/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	31.58	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	185.00	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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Report Number: GGMPL/PN/835D/77/04

Reporting Date : 02/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/835D/77/04	Sampling Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/06/2024
Sample Type:	Water	Analysis Start Date:	22/06/2024
Sample Description:	Mine Premises Borewell water (GW)	Analysis End Date:	01/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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 Limit


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Page No : 2/2

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Reporting Date: 02/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/835D/77/05	Sampling Start Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/06/2024
Sample Description:	Nr Mine Office	Analysis start- End Date:	22/06/2024-01/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	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

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



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/835D/77/06	Sampling Start Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/06/2024
Sample Description:	Nr Mine Pit	Analysis start- End Date:	22/06/2024-01/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	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/77/07

Reporting Date: 02/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/835D/77/07	Sampling Start Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/06/2024
Sample Description:	Nr Mine Dump	Analysis start- End Date:	22/06/2024-01/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	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



Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/835D/77/07

Reporting Date: 02/07/2024

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/835D/77/07	Sampling Start Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/06/2024
Sample Description:	Nr Mine Dump	Analysis start- End Date:	22/06/2024-01/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°C	GGMP/L/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMP/L/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMP/L/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3	m/s	GGMP/L/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/835D/77/08

Reporting Date: 02/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/835D/77/08	Sampling Start Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/06/2024
Sample Description:	Nr Sitapatore Village	Analysis start- End Date:	22/06/2024-01/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.98	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.86	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.85	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.05	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)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/835D/77/08

Reporting Date: 02/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/835D/77/08	Sampling Start Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/06/2024
Sample Description:	Nr Sitapatore Village	Analysis start- End Date:	22/06/2024-01/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

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

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


Analyzed By
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--- End of Report ---


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/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: Laboratory Representative
Sample Type: Water
Sample Description: Open Dugwell Water Supply (GW)

Sampling Date: 20/06/2024
Sample Receipt Date: 22/06/2024
Analysis Start Date: 22/06/2024
Analysis End Date: 28/06/2024

Sample Quantity: 3 L
Sample Condition: Satisfactory


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

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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	Agreeable	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 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	350.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	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


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Priyanka Shrimali




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Manish Kumawat

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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: Laboratory Representative
Sample Type: Water
Sample Description: Open Dugwell Water Supply (GW)
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 20/06/2024
Sample Receipt Date: 22/06/2024
Analysis Start Date: 22/06/2024
Analysis End Date: 28/06/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	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 relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.57	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL as Per IS 10500.

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

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Priyanka Shirmali



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 29/06/2024

M/s Moil Limited

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

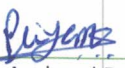


SAMPLE DETAILS

Lab ID:	Lab/PN/833D/77/02	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/06/2024
Sample Description:	Haul Road	Analysis start- End Date:	22/06/2024-28/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.62	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




Authorized Signatory
Manish Kumawat

Page No : 1/2

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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




SAMPLE DETAILS

Lab ID:	Lab/PN/833D/77/02	Sampling Start Date:	21/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/06/2024
Sample Description:	Haul Road	Analysis start- End Date:	22/06/2024-28/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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

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Analyzed By
Priyanka Shrimali




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Manish Kumawat

--- End of Report ---

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN837D/78/01

Reporting Date : 01/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN837D/78/01	Sampling Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	G.W sukali village Borewell	Analysis End Date:	01/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	95.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	24.85	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	63.98	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	18.95	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.12	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.44	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	239.00	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 CaCO ₃	140.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

AB Patel

Analyzed By
Aarmi Patel



[Signature]

Authorized Signatory
Manish Kumawat

Page No : 1/2

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Report Number: GGMPL/PN837D/78/01

Reporting Date : 01/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN837D/78/01	Sampling Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	G.W sukali village Borewell	Analysis End Date:	01/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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

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AB Patel

Analyzed By
Aarmi Patel



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CERTIFICATE OF ANALYSIS

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

Reporting Date : 01/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/837D/78/02	Sampling Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	G.W Near Pit No 5 Water Supply	Analysis End Date:	01/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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 SO ₄ 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 CaCO ₃	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


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Page No : 1/2

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

Reporting Date : 01/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/837D/78/02	Sampling Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/06/2024
Sample Type:	Ground Water	Analysis Start Date:	24/06/2024
Sample Description:	G.W Near Pit No 5 Water Supply	Analysis End Date:	01/07/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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

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Aarmi Patel



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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



SAMPLE DETAILS

Lab ID:	Lab/PN/837D/78/03	Sampling Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	22/06/2024
Sample Type:	Waste Water	Analysis Start Date:	24/06/2024
Sample Description:	W.W Mine discharge Water	Analysis End Date:	01/07/2024
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.62	-	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 °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	-

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

AB Patel

Analyzed By
Aarmi Patel



--- End of Report ---

Manish Kumawat

Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 01/07/2024

M/s Moil Limited

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



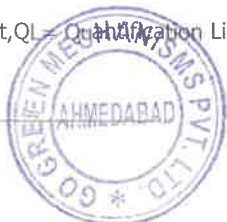
SAMPLE DETAILS

Lab ID:	Lab/PN/837D/78/04	Sampling Start Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2024
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
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	µg/m3	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= Quantification Limit

AB Patel
Analyzed By
Aarmi Patel



Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 1/2

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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/78/04	Sampling Start Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2024
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	Temperature	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 Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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


 Analyzed By
 Aarmi Patel




 Authorized Signatory
 Manish Kumawat

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 01/07/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/837D/78/05	Sampling Start Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/06/2024
Sample Description:	Near Sukali Village	Analysis start- End Date:	24/06/2024-01/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	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

AB Patel
Analyzed By
Aarmi Patel



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Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 01/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/837D/78/05	Sampling Start Date:	20/06/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	21/06/2024
Sample Type:	Ambient Air	Sample Receipt Date:	22/06/2024
Sample Description:	Near Sukali Village	Analysis start- End Date:	24/06/2024-01/07/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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 Speed	3.5	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/837D/78/06

Reporting Date: 01/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.96	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.42	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.78	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.80	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	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

ABRHS
Analyzed By
Aarmi Patel



[Signature]
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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 01/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	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 Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 01/07/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

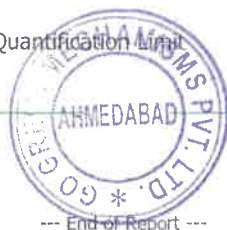
Sampling Date: 20/06/2024
Sample Description: Source Noise

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

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AB Patel

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Page No : 1/1

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