

CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2673C/77A/V4/01

M/s Moil Limited

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

Reporting Date : 28/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2673C/77A/V4/01	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Waste Water	Analysis Start Date:	19/03/2024
Sample Description:	Mine Discharge Water (WW)	Analysis End Date:	27/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.47	-	IS 3025- Part 11	-
2	Total Suspended Solids	26.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	50.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	5.1	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	16.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.135	mg/L	APHA 23rd Edn 3120 B	-

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

Khushbu

Analyzed By
Khushbu Suthar



Tant

Authorized Signatory
Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2673C/77A/V4/02

Reporting Date : 28/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2673C/77A/V4/02	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Water	Analysis Start Date:	19/03/2024
Sample Description:	Mine Office Open Dug Well(GW)	Analysis End Date:	27/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	142.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	35.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.45	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.25	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.55	-	IS 3025- Part 11	6.5 to 8.5	No relaxation
9	Sulphate	40.23	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	244.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	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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Khushbu Suthar



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Report Number: GGMPL/PN/2673C/77A/V4/02

M/s Moil Limited

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

Reporting Date : 28/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2673C/77A/V4/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Mine Office Open Dug Well(GW)

Sampling Date: 16/03/2024
Sample Receipt Date: 18/03/2024
Analysis Start Date: 19/03/2024
Analysis End Date: 27/03/2024


Sample Quantity: 4.5 L
Sample Condition: Satisfactory

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

						Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL	
12	Total Hardness as CaCO ₃	176.00	mg/L	APHA 23rd Edn 2340 C	200	600	
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5	
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation	
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3	
16	Nitrate	2.74	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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--- End of Report ---


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2676C/77A/V4/01

Reporting Date : 23/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2676C/77A/V4/01	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	GW Mine Office Open Dugwell	Analysis End Date:	23/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	E.coli	Absent	Present or Absent/100 ml	APHA 9222H 24th Edition 2021	Absent	Absent
2	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent

AL & PL as per IS 10500.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2673C/77A/V4/03

M/s Moil Limited

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

Reporting Date : 28/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2673C/77A/V4/03	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Water	Analysis Start Date:	19/03/2024
Sample Description:	Sitapatere Village Open Dugwell (GW)	Analysis End Date:	27/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	126.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	47.29	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	28.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.31	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	4.86	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.55	-	IS 3025- Part 11	6.5 to 8.5	No relaxation
9	Sulphate	22.79	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	220.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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Reporting Date : 28/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2673C/77A/V4/03	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Water	Analysis Start Date:	19/03/2024
Sample Description:	Sitapatore Village Open Dugwell (GW)	Analysis End Date:	27/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	138.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.20	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No Relaxation

AL & PL As Per IS 10500.

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Report Number: GGMPL/PN/2676C/77A/V4/02

M/s Moil Limited

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

Reporting Date : 23/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2676C/77A/V4/02	Sampling Date:	15/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	GW Sitapore Village Open Dugwell	Analysis End Date:	23/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	E.coli	Absent	Present or Absent/100 ml	APHA 9222H 24th Edition 2021	Absent	Absent
2	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent

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M/s Moil Limited

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

Reporting Date : 28/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2673C/77A/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Mine Premises Borewell Water (GW)
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 16/03/2024
Sample Receipt Date: 18/03/2024
Analysis Start Date: 19/03/2024
Analysis End Date: 27/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Specification:	
					AL	PL
1	Alkalinity as CaCO ₃	136.00	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	38.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.27	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.09	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.85	-	IS 3025- Part 11	6.5 to 8.5	No relaxation
9	Sulphate	25.76	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	216.00	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

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

Reporting Date : 28/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2673C/77A/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Mine Premises Borewell Water (GW)

Sample Quantity: 4.5 L
Sample Condition: Satisfactory

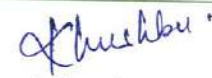
Sampling Date: 16/03/2024
Sample Receipt Date: 18/03/2024
Analysis Start Date: 19/03/2024
Analysis End Date: 27/03/2024

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

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	156.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.48	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


Analyzed By
Khushbu Suthar



--- End of Report ---


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Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2676C/77A/V4/03

M/s Moil Limited

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

Reporting Date : 23/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2676C/77A/V4/03	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	GW Mine Premises Borewell Water	Analysis End Date:	23/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	E.coli	Absent	Present or Absent/100 ml	APHA 9222H 24th Edition 2021	Absent	Absent
2	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent

AL & PL as per IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



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H8
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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2673C/77A/V4/05

Reporting Date: 28/03/2024

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/2673C/77A/V4/05	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	19/03/2024-27/03/2024
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)	63.65	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	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)	16.13	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.18	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)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Khushbu Suthar




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Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2673C/77A/V4/05

Reporting Date: 28/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2673C/77A/V4/05	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Mine Office	Analysis start- End Date:	19/03/2024-27/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29.0	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56.0	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	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/2673C/77A/V4/06

Reporting Date: 28/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2673C/77A/V4/06	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	19/03/2024-27/03/2024
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)	68.13	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.40	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.49	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.08	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.05	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)	1.05	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

Khushbu
Analyzed By
Khushbu Suthar



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Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2673C/77A/V4/06

Reporting Date: 28/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/2673C/77A/V4/06	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Mine Pit	Analysis start- End Date:	19/03/2024-27/03/2024
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	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2673C/77A/V4/07

Reporting Date: 28/03/2024

M/s Moil Limited

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

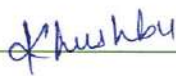


SAMPLE DETAILS

Lab ID:	Lab/PN/2673C/77A/V4/07	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Mine Dump	Analysis start- End Date:	19/03/2024-27/03/2024
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)	68.12	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)	14.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.22	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.76	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	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)	1.05	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


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Report Number : GGMPL/PN/2673C/77A/V4/07

Reporting Date: 28/03/2024

M/s Moil Limited

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



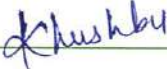
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2673C/77A/V4/07	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Mine Dump	Analysis start- End Date:	19/03/2024-27/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Khushbu Sutthar




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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2673C/77A/V4/08

Reporting Date: 28/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2673C/77A/V4/08	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Sitapatore Village	Analysis start- End Date:	19/03/2024-27/03/2024
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)	63.07	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.66	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.96	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.05	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)	1.06	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

Khushbu

Analyzed By
Khushbu Suthar



Tantan

Authorized Signatory
Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2673C/77A/V4/08

Reporting Date: 28/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2673C/77A/V4/08	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Sitapatore Village	Analysis start- End Date:	19/03/2024-27/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Khushbu

Analyzed By
Khushbu Suthar



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2673C/77A/V4/09

Reporting Date: 28/03/2024

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: 16/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2673C/7 7A/V4/09A	Leq	Day Time	dB(A)Leq	IS 4758	66.5	-
2	Lab/PN/2673C/7 7A/V4/09B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	67.5	-
3	Lab/PN/2673C/7 7A/V4/09C	Drill Machine	Day Time	dB(A)Leq	IS 4758	68.9	-
4	Lab/PN/2673C/7 7A/V4/09D	Near Excavatore	Day Time	dB(A)Leq	IS 4758	67.8	-
5	Lab/PN/2673C/7 7A/V4/09A	Near Mine Premises	Night Time	dB(A)Leq	IS 4758	57.3	-
6	Lab/PN/2673C/7 7A/V4/09B	Dumper Loaded	Night Time	dB(A)Leq	IS 4758	56.5	-
7	Lab/PN/2673C/7 7A/V4/09C	Drill Machine	Night Time	dB(A)Leq	IS 4758	55.9	-
8	Lab/PN/2673C/7 7A/V4/09D	Near Excavatore	Night Time	dB(A)Leq	IS 4758	56.9	-

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


Analyzed By
Khushbu Suthar




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Tantan Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2674C/77B/V4/01

Reporting Date : 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2674C/77B/V4/01	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	Open dugwell Water Supply (GW)	Analysis End Date:	28/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	143.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	98.96	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	1.5
6	Magnesium as Mg	18.71	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.89	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	42.01	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)	10.00	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

Priyanka
Analyzed By
Priyanka Shrimali



Manish
Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2674C/77B/V4/01

M/s Moil Limited

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

Reporting Date : 29/03/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/2674C/77B/V4/01	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	19/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	Open dugwell Water Supply (GW)	Analysis End Date:	28/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	4.0	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	2.50	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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


Analyzed By
Priyanka Shrimali




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Manish Kumawat

--- End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2677C/77B/V4/01

Reporting Date : 22/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2677C/77B/V4/01	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	GW Open Dugwell Water Supply	Analysis End Date:	22/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	E.coli	Absent	Present or Absent/100 ml	APHA 9222H 24th Edition 2021	Absent	Absent
2	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent

AL & PL as Per IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



HS
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2674C/77B/V4/02

Reporting Date: 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2674C/77B/V4/02	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/03/2024
Sample Description:	Haul Road	Analysis start- End Date:	19/03/2024-28/03/2024
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)	69.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.52	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	20.12	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.08	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)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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Priyanka Shrimali




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Manish Kumawat

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Report Number : GGMP/L/PN/2674C/77B/V4/02

Reporting Date: 29/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2674C/77B/V4/02	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	17/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	19/03/2024
Sample Description:	Haul Road	Analysis start- End Date:	19/03/2024-28/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMP/L/SOP/MP/01	NS
13	Relative Humidity	58	%	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	6.5	m/s	GGMP/L/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2674C/77B/V4/03

Reporting Date: 29/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 16/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2674C/7 7B/V4/03A	Haul Road	Day Time	dB(A)Leq	IS 4758	68.5	-
2	Lab/PN/2674C/7 7B/V4/03A	Haul Road	Night Time	dB(A)Leq	IS 4758	57.3	-

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

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Priyanka Shrimali



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2675C/78A/V4/01

M/s Moil Limited

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

Reporting Date : 30/03/2024



SAMPLE DETAILS

Lab ID: Lab/PN/2675C/78A/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: G.W sukali village Borewell
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

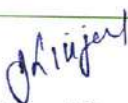
Sampling Date: 16/03/2024
Sample Receipt Date: 18/03/2024
Analysis Start Date: 19/03/2024
Analysis End Date: 29/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	102.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	28.05	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	44.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.19	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.05	-	IS 3025- Part 11	6.5 8.5	No Relaxation
9	Sulphate	26.75	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	250.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	13.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	150.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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


Analyzed By
Kinjal Damor




Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/LPN/2675C/78A/V4/01

M/s Moil Limited

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

Reporting Date : 30/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2675C/78A/V4/01	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	G.W sukali village Borewell	Analysis End Date:	29/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMP/LWI/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	GGMP/LSOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/LSOP/W & WW/46	0.1	0.3
16	Nitrate	1.05	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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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2678C/78A/V4/01

Reporting Date : 23/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2678C/78A/V4/01	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	GW Sukali Village Borewell	Analysis End Date:	23/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	E.coli	Absent	Present or Absent/100 ml	APHA 9222H 24th Edition 2021	Absent	Absent
2	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



H8
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2675C/78A/V4/02

M/s Moil Limited

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

Reporting Date : 30/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2675C/78A/V4/02	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	G.W Near Pit No 5 Water Supply	Analysis End Date:	29/03/2024
Sample Quantity:	4.5 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	34.07	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	0.25	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	17.01	mg/L	APHA 23rd Edn 3500 Mg B	30	10
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.65	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	21.80	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	260.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	142.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL as Per 10500.

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

Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2675C/78A/V4/02

M/s Moil Limited

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

Reporting Date : 30/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2675C/78A/V4/02	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	G.W Near Pit No 5 Water Supply	Analysis End Date:	29/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/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	GGMP/L/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.88	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as Per 10500.

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

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Kinjal Damor



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Page No : 2/2

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Report Number: GGMP/L/PN/2678C/78A/V4/02

M/s Moil Limited

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

Reporting Date : 23/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2678C/78A/V4/02	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Ground Water	Analysis Start Date:	19/03/2024
Sample Description:	GW Nr Pit NO-5 Water Supply	Analysis End Date:	23/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	E.coli	Absent	Present or Absent/100 ml	APHA 9222H 24th Edition 2021	Absent	Absent
2	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi
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Nidhi Shah



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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2675C/78A/V4/03

M/s Moil Limited

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

Reporting Date : 30/03/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/2675C/78A/V4/03	Sampling Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	18/03/2024
Sample Type:	Waste Water	Analysis Start Date:	19/03/2024
Sample Description:	W.W Mine discharge Water	Analysis End Date:	29/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.53	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	56.00	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	120.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	3.70	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	31	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMP/L/SOP/W & WW/46	2

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

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Analyzed By
Kinjal Damor



al
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Manish Kumawat

--- End of Report ---

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2675C/78A/V4/04

Reporting Date: 30/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2675C/78A/V4/04	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Pit No.2	Analysis start- End Date:	19/03/2024-29/03/2024
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)	68.91	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)	16.74	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.82	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.08	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.18	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)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Kinjal Damor



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2675C/78A/V4/04

Reporting Date: 30/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2675C/78A/V4/04	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Pit No.2	Analysis start- End Date:	19/03/2024-29/03/2024
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	60	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2675C/78A/V4/05

Reporting Date: 30/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2675C/78A/V4/05	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Sukali Village	Analysis start- End Date:	19/03/2024-29/03/2024
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)	72.28	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)	11.05	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.44	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.77	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.06	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)	1.05	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

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2675C/78A/V4/05

Reporting Date: 30/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2675C/78A/V4/05	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Near Sukali Village	Analysis start- End Date:	19/03/2024-29/03/2024
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	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	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/2675C/78A/V4/06

Reporting Date: 30/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2675C/78A/V4/06	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Haul Road	Analysis start- End Date:	19/03/2024-29/03/2024
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)	74.23	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.90	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.79	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.00	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.18	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)	1.05	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

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Report Number : GGMPL/PN/2675C/78A/V4/06

Reporting Date: 30/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2675C/78A/V4/06	Sampling Start Date:	16/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	16/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/03/2024
Sample Description:	Haul Road	Analysis start- End Date:	19/03/2024-29/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	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	0.0	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2675C/78A/V4/07

Reporting Date: 30/03/2024

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

Sampling Date:

16/03/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2675C/7 8A/V4/07A	Near Pit No.2	Day Time	dB(A)Leq	IS 4758	67.5	-
2	Lab/PN/2675C/7 8A/V4/07B	Near Sukali Village	Day Time	dB(A)Leq	IS 4758	65.4	-
3	Lab/PN/2675C/7 8A/V4/07C	Haul Road	Day Time	dB(A)Leq	IS 4758	66.5	-
4	Lab/PN/2675C/7 8A/V4/07A	Near Pit No.2	Night Time	dB(A)Leq	IS 4758	56.5	-
5	Lab/PN/2675C/7 8A/V4/07B	Near Sukali Village	Night Time	dB(A)Leq	IS 4758	57.4	-
6	Lab/PN/2675C/7 8A/V4/07C	Haul Road	Night Time	dB(A)Leq	IS 4758	55.3	-

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