

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/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:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2673C/77A/V4/01 Laboratory Representative

Waste Water Mine Discharge Water (WW)

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

16/03/2024 18/03/2024

19/03/2024 27/03/2024 GGMPL/WI/27A

Sealed

.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.47	(2)	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	
5	BOD at 27 o 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	(4)

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

Lhushbu Analyzed By Khushbu Suthar nd of Report

Authorized Signatory Tantan Kumar

Page No: 1/1

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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



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:

Analysis Start Date:

19/03/2024

Sample Description:

Mine Office Open Dug Well(GW)

Analysis End Date:

27/03/2024

Sample Quantity: Sample Condition:

4.5 L

Sampling Method: Packing:

GGMPL/WI/27A

Satisfactory

Sealed

arripie	Condition. Salis	Stactory			Packing:	Sealed		
							Sp	ecification
r.No	Parameters		Results	Unit	Test Method	A	AL	PL
1	Alkalinity as CaCO3		142.00	mg/L	APHA 23rd Edn 2320 B	2	200	600
2	Calcium as Ca		42.48	mg/L	APHA 23rd Edn 3500 Ca	a B 7	75	200
3	Chloride		35.98	mg/L	IS 3025- Part 32	2	250	1000
4	Colour		BQL (QL=1)	CU	IS 3025- Part 4	5	j	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 M	g B 3	80	100
7	Odour		Agreeable		IS 3025- Part 5	A	greeable	Agreeable
8	pH at 25 °C		7.55	-	IS 3025- Part 11	6	5.5 to 8.5	No relaxation
9	Sulphate		40.23	mg/L	APHA 23rd Edn 4500 SC	04 E 2	200	400
10	Total Dissolved Solids (TDS	5)	244.00	mg/L	APHA 23rd Edn 2540 C	5	000	2000
11	Total Suspended Solids (TS	SS)	8.00	mg/L	APHA 23rd Edn 2540 D	N	NS .	NS

AL & PL As Per IS 10500.

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

Khushbu Analyzed By Khushbu Suthar

Authorized Signatory Tantan Kumar

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: 28/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2673C/77A/V4/02

16/03/2024

Sample Drawn By: Sample Type:

Laboratory Representative

Mine Office Open Dug Well(GW)

Sampling Date: Sample Receipt Date:

18/03/2024 19/03/2024

Sample Description:

Analysis Start Date: 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 CaCO3	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 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

okhushbu. Analyzed By Khushbu Suthar

AHMEDABA

--- End of Report ---

Authorized Signatory Tantan Kumar

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

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/V4/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

GW Mine Office Open Dugwell

Sample Quantity: Sample Condition: 300 ml

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

19/03/2024 23/03/2024 GGMPL/WI/27A

16/03/2024

18/03/2024

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

Analyzed By Nidhi Shah

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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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



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2673C/77A/V4/03

Sampling Date:

16/03/2024

Sample Drawn By:

Laboratory Representative

Sitapatere Village Open Dugwell (GW)

Sample Receipt Date:

18/03/2024

Sample Type: Sample Description: Water

Analysis Start Date: Analysis End Date:

19/03/2024 27/03/2024

Sample Quantity: Sample Condition:

4.5 L

Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

	- actividation /			racking.	Sealed	
						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	В 30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreea	ble 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 SO4	1 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.

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

Analyzed By Khushbu Suthar

Authorized Signatory Tantan Kumar

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: 28/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/2673C/77A/V4/03 Laboratory Representative

Sampling Date: Sample Receipt Date: 16/03/2024 18/03/2024

Sample Type:

Water

Analysis Start Date:

19/03/2024 27/03/2024

Sample Description:

Sitapatere Village Open Dugwell (GW)

Analysis End Date:

Sample Quantity: Sample Condition: 4.5 L Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	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 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

Analyzed By Khushbu Suthar

of hushbu.

Authorized Signatory Tantan Kumar

Page No: 2/2

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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:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/2676C/77A/V4/02

Laboratory Representative Ground Water

GW Sitapore Village Open Dugwell 300 ml

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

15/03/2024

18/03/2024 19/03/2024

23/03/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parame	eters 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 Shah

End of Report

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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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:

Sample Drawn By:

Lab/PN/2673C/77A/V4/04 Laboratory Representative

Sample Type: Sample Description: Water

Mine Premises Borewell Water (GW)

Sample Quantity: Sample Condition: 4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Dacking.

GGMPL/WI/27A

16/03/2024

18/03/2024

19/03/2024

27/03/2024

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						S	pecificatio
r.N	o Parameters	Results	Unit	Test Method	,	AL	PL
1	Alkalinity as CaCO3	136.00	mg/L	APHA 23rd Edn 2320	В	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	FD 1	.0	1.5
6	Magnesium as Mg	14.09	mg/L	APHA 23rd Edn 3500	Mg B 3	0	100
7	Odour	Agreeable		IS 3025- Part 5	A	greeable	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	SO4 E 2	00	400
10	Total Dissolved Solids (TDS)	216.00	mg/L	APHA 23rd Edn 2540		00	2000
1	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540	D N	S	NS

AL & PL As Per IS 10500.

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

Khushbu. Analyzed By Khushbu Suthar

HMEDABAD

Authorized Signatory Tantan Kumar

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2673C/77A/V4/04

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: Sample Drawn By:

Lab/PN/2673C/77A/V4/04 Laboratory Representative

Sampling Date: Sample Receipt Date: 16/03/2024

Sample Type:

Water

Analysis Start Date:

18/03/2024 19/03/2024

Sample Description:

Mine Premises Borewell Water (GW)

Analysis End Date:

27/03/2024

Sample Quantity: Sample Condition: 4.5 L

Satisfactory Packing:

Sampling Method:

GGMPL/WI/27A

Sealed

						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	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
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	Relaxation 0.3
16	Nitrate	2.48	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

Thuckbu Analyzed By Khushbu Suthar

- End of Report

Authorized Signatory Tantan Kumar

Page No: 2/2

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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

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

GW Mine Premises Borewell Water

Sample Quantity: Sample Condition:

300 ml Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

19/03/2024 23/03/2024 GGMPL/WI/27A

16/03/2024

18/03/2024

Packing:

Sealed

Specification:

Parameters	Results	Unit	Test Method	AL	PL
E.coli	Absent	Present or Absent/100 ml	APHA 9222H 24th Edition 2021	Absent	Absent
Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
	E.coli	E.coli Absent	E.coli Absent Absent Present or Absent/100 ml Present or Absent or Absent/100	E.coli Absent Absent	E.coli Absent Absent

AL & PL as per IS 10500.

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

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/2673C/77A/V4/05

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:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2673C/77A/V4/05 Laboratory Representative

Ambient Air

Near Mine Office

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

17/03/2024 18/03/2024

16/03/2024

19/03/2024-27/03/2024

24 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

Authorized Signatory Tantan Kumar

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2673C/77A/V4/05 Laboratory Representative

Ambient Air Near Mine Office

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

19/03/2024-27/03/2024 Total Sampling hours:

Env. Cond.-Testing:

24

16/03/2024

17/03/2024

18/03/2024

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/Li

Analyzed By Khushbu Suthar - End of Report

Authorized Signatory Tantan Kumar

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/03/2024



19/03/2024-27/03/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Description:

Sample Type:

Ambient Air Near Mine Pit

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2673C/77A/V4/06 Laboratory Representative

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

24

25±5°C

16/03/2024

17/03/2024

18/03/2024

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

Analyzed By Khushbu Suthar

Authorized Signatory Tantan Kumar

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2673C/77A/V4/06 Laboratory Representative

Ambient Air

Near Mine Pit

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

19/03/2024-27/03/2024

24

25±5°C

16/03/2024

17/03/2024

18/03/2024

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

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

Analyzed By Khushbu Suthar

Authorized Signatory Tantan Kumar

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2673C/77A/V4/07 Laboratory Representative Ambient Air

Near Mine Dump

Ambient Temperature Satisfactory

Sampling Start Date: 16/03/2024 Sampling End Date: 17/03/2024 Sample Receipt Date: 18/03/2024 Analysis start- End Date: 19/03/2024-27/03/2024

Total Sampling hours: 24 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

Analyzed By Khushbu Suthar

Authorized Signatory Tantan Kumar

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type:

Sample Description:

Ambient Air

Env. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/2673C/77A/V4/07 Laboratory Representative

Near Mine Dump

Ambient Temperature Satisfactory

Sampling Start Date: 16/03/2024 Sampling End Date: 17/03/2024

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

24

25±5°C

18/03/2024

19/03/2024-27/03/2024

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

Khushbu Suthar

Authorized Signatory Tantan Kumar

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/03/2024



19/03/2024-27/03/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2673C/77A/V4/08

Laboratory Representative Ambient Air

Near Sitapatore Village

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

25±5°C

16/03/2024

17/03/2024

18/03/2024

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 Em

Khushbu Suthar

Authorized Signatory Tantan Kumar

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2673C/77A/V4/08 Laboratory Representative Ambient Air

Near Sitapatore Village

Ambient Temperature

Satisfactory

Sampling Start Date: 16/03/2024 Sampling End Date: 17/03/2024

Sample Receipt Date: Analysis start- End Date:

19/03/2024-27/03/2024

Total Sampling hours: Env. Cond.-Testing:

25±5°C

18/03/2024

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

Analyzed By Khushbu Suthar End of Report

Authorized Signatory Tantan Kumar

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 28/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

16/03/2024

Source Noise

r.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= Quantific

Analyzed By Khushbu Suthar End of Report

Authorized Signatory Tantan Kumar

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

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



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2674C/77B/V4/01

Laboratory Representative

Sample Drawn By: Sample Type: Sample Description:

Sample Condition:

Ground Water

Open dugwell Water Supply (GW)

Sample Quantity:

4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

16/03/2024

19/03/2024 19/03/2024

28/03/2024 GGMPL/WI/27A

Sealed

Specification:

					J.	occincution.
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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 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)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	175.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali



Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

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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



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/2674C/77B/V4/01 Laboratory Representative

Ground Water

Open dugwell Water Supply (GW)

Sample Description: Sample Quantity: Sample Condition:

4.5 L Satisfactory Sampling Date: 16/03/2024 Sample Receipt Date: 19/03/2024 Analysis Start Date: 19/03/2024

Analysis End Date: 28/03/2024 Sampling Method: GGMPL/WI/27A

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

Priyanka Shrimali

End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 22/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Lab/PN/2677C/77B/V4/01 Laboratory Representative

Sample Type: Sample Description: Ground Water GW Open Dugwell Water Supply

Sample Quantity: Sample Condition:

300 ml Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

GGMPL/WI/27A

16/03/2024

18/03/2024

19/03/2024

22/03/2024

Packing: Sealed

Specification:

Sr.No		Parameters	Results	Unit	Test Method	AL	PL
1	E.coli		Absent	ml	APHA 9222H 24th Edition 2021	Absent	Absent
2	Total coli	form	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 Shah

End of Report --

HAA

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2674C/77B/V4/02

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:

19/03/2024 19/03/2024-28/03/2024

16/03/2024

17/03/2024

24

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

Analyzed By Priyanka Shrimali

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/PN/2674C/77B/V4/02

M/s Moil Limited

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

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2674C/77B/V4/02

Laboratory Representative

Ambient Air Haul Road

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Total Sampling hours:

Analysis start- End Date:

Env. Cond.-Testing:

19/03/2024 19/03/2024-28/03/2024

25±5°C

16/03/2024

17/03/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°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	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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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End of Report



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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 29/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

16/03/2024

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

Analyzed By Priyanka Shrimali

End of Report

HMEDABA

Authorized Signatory Manish Kumawat

Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

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



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2675C/78A/V4/01

Sample Drawn By: Sample Type:

Laboratory Representative

Ground Water

Sample Description: Sample Quantity:

Sample Condition:

G.W sukali village Borewell

4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

16/03/2024

18/03/2024 19/03/2024 29/03/2024

GGMPL/WI/27A

Sealed

Specification:

						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	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	4	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.05		TS 3025- Part 11	6.5 8.5	No Relaxation
9	Sulphate	26.75	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)	13.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	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

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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: Sample Drawn By:

Sample Type:

Lab/PN/2675C/78A/V4/01

Laboratory Representative Ground Water

Sample Description:

G.W sukali village Borewell

Sample Quantity: Sample Condition: Satisfactory

4.5 L

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

16/03/2024

18/03/2024 19/03/2024 29/03/2024

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	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

Analyzed By

Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

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/V4/01

16/03/2024

Sample Drawn By: Sample Type:

Laboratory Representative

18/03/2024

Sample Description:

Ground Water GW Sukali Village Borewell 19/03/2024

Sample Quantity:

300 ml

Analysis End Date:

23/03/2024 GGMPL/WI/27A

Sample Condition:

Satisfactory

Sampling Method: Packing:

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Sealed

Specification:

						pecification
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 o	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

Analyzed By Nidhi Shah



Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

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:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/2675C/78A/V4/02

Laboratory Representative Ground Water

G.W Near Pit No 5 Water Supply

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

16/03/2024

18/03/2024 19/03/2024

29/03/2024 GGMPL/WI/27A

Sealed

Specification:

					5	pecification
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	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 SO4 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 CaCO3	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

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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



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description

Sample Description: Sample Quantity:

Sample Quantity: Sample Condition: Lab/PN/2675C/78A/V4/02 Laboratory Representative Ground Water

G.W Near Pit No 5 Water Supply 4.5 L

Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Sampling Method: Packing: 16/03/2024 18/03/2024 19/03/2024 29/03/2024

GGMPL/WI/27A

king: 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	3.88	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

Analyzed By Kinjal Damor Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/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

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

GW Nr Pit NO-5 Water Supply

Sample Quantity: Sample Condition:

300 ml Satisfactory Sampling Date:

16/03/2024

Sample Receipt Date: Analysis Start Date:

18/03/2024 19/03/2024

Analysis End Date:

23/03/2024

Sampling Method:

GGMPL/WI/27A

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 Shah



Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/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



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity: Sample Condition:

Lab/PN/2675C/78A/V4/03 Laboratory Representative

Waste Water W.W Mine discharge Water

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

16/03/2024 18/03/2024

19/03/2024 29/03/2024 GGMPL/WI/27A

Sealed

r.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 o C for 3 days	31	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	2

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

Analyzed By Kinjal Damor 9 * 0

HAA

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2675C/78A/V4/04

Laboratory Representative

Ambient Air Near Pit No.2

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

16/03/2024 16/03/2024

18/03/2024

19/03/2024-29/03/2024

24

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2675C/78A/V4/04

Laboratory Representative Ambient Air

Near Pit No.2 Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date:
Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 16/03/2024 16/03/2024 18/03/2024

19/03/2024-29/03/2024

24 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 L

Analyzed By Kinjal Damor

DEnd of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/03/2024



TC-7073

16/03/2024

16/03/2024

18/03/2024

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2675C/78A/V4/05 Laboratory Representative Ambient Air Near Sukali Village Ambient Temperature Satisfactory Sampling Start Date:
Sampling End Date:
Sample Receipt Date:

Analysis start- End Date: 19/03/2024-29/03/2024Total Sampling hours: 24 Env. Cond.-Testing: $25\pm5^{\circ}$ 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

Analyzed By Kinjal Damor CHAN/S AHMEDABAD PHI

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2675C/78A/V4/05

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:

16/03/2024 16/03/2024 18/03/2024

19/03/2024-29/03/2024

Env. CondTesting:	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

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

Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2675C/78A/V4/06 Laboratory Representative

Ambient Air Haul Road Ambient Temperature

Satisfactory

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

Analysis start- End Date: 19/03/2024-29/03/2024Total Sampling hours: 24Env. Cond.-Testing: $25\pm5^{\circ}\text{C}$

r.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	ADDIODIA (NES)		GGMPL/SOP/AA/62 Issue No.02 August 01	400		
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5	
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1	
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4	
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20	
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6	

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

Analyzed By Kinjal Damor Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2675C/78A/V4/06 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:

16/03/2024 16/03/2024 18/03/2024

19/03/2024-29/03/2024

24 25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards	
Temperature	31	°C	GGMPL/SOP/MP/01	NS	
Relative Humidity	59	%	GGMPL/SOP/MP/01	NS	
infall 0.0 mm GGMPL/SOP/		GGMPL/SOP/MP/01:2020	MP/01:2020 NS		
Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1	
Wind Speed	0.0	m/s	GGMPL/SOP/MP/01:2020	NS	
	Temperature Relative Humidity Rainfall Lead	Temperature 31 Relative Humidity 59 Rainfall 0.0 BQL (QL=0.001)	Temperature 31 °C Relative Humidity 59 % Rainfall 0.0 mm Lead BQL (QL=0.001) µg/m3	Temperature 31 °C GGMPL/SOP/MP/01 Relative Humidity 59 % 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

Kinjal Damor

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 30/03/2024



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/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	÷

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

Kinjal Damor

Authorized Signatory Manish Kumawat

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