

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/2011C/77A/V3/01

M/s Moil Limited

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

Reporting Date: 11/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2011C/77A/V3/01

Sample Drawn By: Sample Type: Laboratory Representative

Waste Water

Sample Description:

Mine Discharge Water (WW)

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Sampling Method Packing: 29/12/2023

02/01/2024 02/01/2024 10/01/2024

10/01/2024 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.39	- 1	IS 3025- Part 11	-
2	Total Suspended Solids	30.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	65.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	5.30	mg/L	IS 3025- Part 38	1
6	BOD at 27 o C for 3 days	20.00	mg/L	IS 3025- Part 44	
7	Manganese as Mn	0.57	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By Ritu Shah

--- End of Report ---

AHMEDABAD

Authorized Signatory Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/02

M/s Moil Limited

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

Reporting Date: 11/01/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2011C/77A/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Sample Condition:

Mine Office Open Dug Well(GW)

Sample Quantity:

3.5L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

29/12/2023

02/01/2024 02/01/2024

10/01/2024 GGMPL/WI/27A

Sealed

Specification:

					•	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.62	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO3	144.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	45.69	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	37.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5 .	15
6	Fluoride (F)	0.36	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	38.65	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	274.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	194.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	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 Ritu Shah

Authorized Signatory Payal Patel

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: 11/01/2024



SAMPLE DETAILS

Lab ID:

Sample Type:

Sample Drawn By:

Lab/PN/2011C/77A/V3/02 Laboratory Representative

Water

Mine Office Open Dug Well(GW)

Sample Description: Sample Quantity: Sample Condition:

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date:

29/12/2023 02/01/2024

Analysis Start Date:

02/01/2024

Analysis End Date: Sampling Method:

10/01/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.24	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 Ritu Shah

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M/s Moil Limited

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

Reporting Date: 11/01/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2011C/77A/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Mine Office Open Dug Well(GW)

Sample Quantity:

Sample Condition:

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

10/01/2024 GGMPL/WI/27A

29/12/2023

02/01/2024

02/01/2024

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

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M/s Moil Limited

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

Reporting Date: 11/01/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2011C/77A/V3/03

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Description:

Sitapatere Village Open Dugwell (GW)

Sample Quantity:

Satisfactory

Sample Condition:

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

29/12/2023 02/01/2024

02/01/2024 10/01/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.68	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO3	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	40.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	37.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	26.22	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	240.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	112.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	12.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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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: 11/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2011C/77A/V3/03

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Sitapatere Village Open Dugwell (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

29/12/2023 02/01/2024

02/01/2024 10/01/2024

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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.88	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 Ritu Shah

--- End of Report ---

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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: 11/01/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2011C/77A/V3/03

Sample Drawn By:

Sample Type: Sample Description:

Sample Quantity:

Sample Condition:

Laboratory Representative

Sitapatere Village Open Dugwell (GW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

29/12/2023

02/01/2024 02/01/2024

10/01/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By

--- End of Report ---

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/04

M/s Moil Limited

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

Reporting Date: 11/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2011C/77A/V3/04

V3/04

29/12/2023

Sample Drawn By:

Laboratory Representative

Sampling Date: Sample Receipt Date:

02/01/2024

Sample Type:

Vater

Analysis Start Date:

02/01/2024 10/01/2024

Sample Description:

Mine Premises Borewell Water (GW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5L Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.92	-3	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO3	150.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	43.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	42.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	13.36	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	27.60	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	227.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	164.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	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 Ritu Shah



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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/04

M/s Moil Limited

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

Reporting Date: 11/01/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2011C/77A/V3/04

Sampling Date:

29/12/2023

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date:

02/01/2024 02/01/2024

Sample Description:

Mine Premises Borewell Water (GW)

Analysis Start Date: Analysis End Date:

10/01/2024

Sample Quantity:

3.51

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.96	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 Ritu Shah

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Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/04A

M/s Moil Limited

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

Reporting Date: 11/01/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Lab/PN/2011C/77A/V3/04

Sample Type:

Water

Sample Description:

Sample Quantity:

Sample Condition:

Laboratory Representative

Mine Premises Borewell Water (GW)

3.5L

Satisfactory

Sampling Date:

29/12/2023

Sample Receipt Date:

02/01/2024

Analysis Start Date:

02/01/2024

Analysis End Date: Sampling Method:

10/01/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah

- End of Report ---

AHMEDABAD

P.B.A.

Authorized Signatory Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/05

M/s Moil Limited

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

Reporting Date: 11/01/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2011C/77A/V3/05

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:

29/12/2023 30/12/2023 02/01/2024

02/01/2024-10/01/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.98	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)	11.27	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.18	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.82	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.88	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.01	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Ritu Shah

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/05

M/s Moil Limited

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

Reporting Date: 11/01/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2011C/77A/V3/05 Laboratory Representative Ambient Air Near Mine Office Ambient Temperature Satisfactory

Sampling Start Date: 29/12/2023 Sampling End Date: 30/12/2023 Sample Receipt Date: Analysis start- End Date: Total Sampling hours:

02/01/2024 02/01/2024-10/01/2024

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Ten	nperature	29	°C	GGMPL/SOP/MP/01	NS
13 Rela	ative Humidity	56	%	GGMPL/SOP/MP/01	NS
14 Lea	d	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15 Win	nd Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Ritu Shah

End of Report ---

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Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/06

M/s Moil Limited

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

Reporting Date: 11/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2011C/77A/V3/06

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: 29/12/2023

30/12/2023 02/01/2024

02/01/2024-10/01/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.33	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.40	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.62	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.82	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.30	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)	1.02	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Ritu Shah

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/06

M/s Moil Limited

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

Reporting Date: 11/01/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

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

Lab/PN/2011C/77A/V3/06 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:

29/12/2023 30/12/2023

02/01/2024 02/01/2024-10/01/2024

24 25±5°C

12 Temperature 29 °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 6.0 m/s GGMPL/SOP/MP/01:2020 NS	Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13 Relative Humidity 57 % GGMPL/SOP/MP/01 NS 14 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4 1	12	A STATE OF THE STA	29	°C	GGMPL/SOP/MP/01	NS
	13		57	%	GGMPL/SOP/MP/01	NS
15 Wind Speed 6.0 m/s GGMPL/SOP/MP/01:2020 NS	14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
	15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Ritu Shah

--- End of Report --

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Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/07

M/s Moil Limited

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

Reporting Date: 11/01/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2011C/77A/V3/07

Laboratory Representative

Ambient Air Near Mine Dump

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: 29/12/2023 30/12/2023 02/01/2024

02/01/2024 02/01/2024 02/01/2024

02/01/2024-10/0 24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.23	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.04	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.17	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.20	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.30	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)	1.00	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 Ritu Shah Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/07

M/s Moil Limited

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

Reporting Date: 11/01/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2011C/77A/V3/07

Laboratory Representative

Ambient Air Near Mine Dump Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 29/12/2023 30/12/2023

02/01/2024

02/01/2024-10/01/2024 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

AHMEDABAD PV

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/08

M/s Moil Limited

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

Reporting Date: 11/01/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2011C/77A/V3/08

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:

29/12/2023

30/12/2023 02/01/2024

02/01/2024-10/01/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.41	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.53	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.45	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.30	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)	1.02	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Ritu Shah AHMEDABAD P

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/08

M/s Moil Limited

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

Reporting Date: 11/01/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2011C/77A/V3/08 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:

29/12/2023 30/12/2023 02/01/2024

02/01/2024-10/01/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°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	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Ritu Shah

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CHAN

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2011C/77A/V3/09

M/s Moil Limited

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

Reporting Date: 11/01/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

29/11/2023

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2011C/7 7A/V3/09A	Near Mine Premises	Day Time	dB(A)Leq	IS 4758	61.2	-
2	Lab/PN/2011C/7 7A/V3/09B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	64.3	
3	Lab/PN/2011C/7 7A/V3/09C	Drill Machine	Day Time	dB(A)Leq	IS 4758	66.4	_
4	Lab/PN/2011C/7 7A/V3/09D	Near Excavatore	Day Time	dB(A)Leq	IS 4758	68.9	

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/2012C/77B/V3/01

M/s Moil Limited

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

Reporting Date: 10/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2012C/77B/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Sample Condition:

Open Dugwell Water Supply (GW)

Sample Quantity:

Satisfactory

4 L

Sampling Date:

29/12/2023

Sample Receipt Date:

02/01/2024

Analysis Start Date:

02/01/2024

Analysis End Date: Sampling Method:

09/01/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.63	-	IS 3025-Part 11	6.5 to 8.5	No relaxation
2	Alkalinity as CaCO3	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	91.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	3	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.37	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	15.06	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	37.07	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	316.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	160.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	16.00	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 Ritu Shah

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012C/77B/V3/01

M/s Moil Limited

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

Reporting Date: 10/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2012C/77B/V3/01

29/12/2023

Sample Drawn By:

Laboratory Representative

Sampling Date: Sample Receipt Date: Analysis Start Date:

02/01/2024 02/01/2024

Sample Type: Sample Description:

Open Dugwell Water Supply (GW)

09/01/2024

Sample Quantity:

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	3.1	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.32	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

Ritu Shah

--- End of Report ---

HMEDABAD

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P.BB

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012C/77B/V3/01A

M/s Moil Limited

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

Reporting Date: 10/01/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2012C/77B/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Open Dugwell Water Supply (GW)

Sample Quantity:

4 L

Sample Condition:

Satisfactory

Sampling Date:

29/12/2023 Sample Receipt Date: 02/01/2024

Analysis Start Date:

Analysis End Date:

Packing:

Sampling Method:

09/01/2024 GGMPL/WI/27A

02/01/2024

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

Ritu Shah

End of Report --

AHMEDABAD

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012C/77B/V3/02

M/s Moil Limited

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

Reporting Date: 10/01/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2012C/77B/V3/02 Laboratory Representative

Ambient Air Haul Road

Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 29/12/2023 30/12/2023 02/01/2024

02/01/2024-09/01/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.43	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.29	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.33	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.30	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)	1.00	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 Ritu Shah AHMEDABAD PV

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012C/77B/V3/02

M/s Moil Limited

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

Reporting Date: 10/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:
Sample Drawn By:
Sample Type:
Sample Description:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2012C/77B/V3/02 Laboratory Representative

Ambient Air Haul Road

Ambient Temperature Satisfactory

Sampling Start Date: 29/12/2023 Sampling End Date: 30/12/2023 Sample Receipt Date: 02/01/2024

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

02/01/2024-09/01/2024

Total Sampling hours: 24 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	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

--- End of Report ---

AHMEDABAD

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2012C/77B/V3/03

M/s Moil Limited

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

Reporting Date: 10/01/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

29/12/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2012C/7 7B/V3/03	Haul Road	Day Time	dB(A)Leq	IS 4758	62.1	75

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

Analyzed By Ritu Shah

Authorized Signatory Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/01

M/s Moil Limited

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

Reporting Date: 13/01/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2030C/78A/V3/01

30/12/2023 Sampling Date:

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Receipt Date:

03/01/2024 04/01/2024

Sample Description:

Water GW Sukali Village Borewell Analysis Start Date: Analysis End Date: 12/01/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Sampling Method:

Sealed

Packing:

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.24	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	118.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	22.44	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	47.99	mg/L	IS 3025 -Part 32	NaN	NaN
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.23	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	18.47	mg/L	APHA 23rd Edn 3500 Mg B	30	75
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	23.27	mg/L	APHA 23rd Edn 4500 SO4 E	200	600
10	Total Dissolved Solids	222.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	132.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

Al & Pl as Per 10500

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

Analyzed By Dr. Haragobinda Srcihandan

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/01

M/s Moil Limited

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

Reporting Date: 13/01/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2030C/78A/V3/01

Sampling Date:

30/12/2023 03/01/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

04/01/2024 12/01/2024

Sample Description:

GW Sukali Village Borewell

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 3 L Satisfactory

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.70	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

Dr. Haragobinda Srcihandan

AHMEDAB!

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PBB-Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/01A

M/s Moil Limited

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

Reporting Date: 13/01/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2030C/78A/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

GW Sukali Village Borewell

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

03/01/2024 Analysis Start Date: 04/01/2024

Analysis End Date: Sampling Method:

GGMPL/WI/27A

30/12/2023

12/01/2024

Packing:

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

Al & Pl as Per 10500

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

Analyzed By Dr. Haragobinda Srcihandan AHMEDABAD

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/02

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:

Lab/PN/2030C/78A/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

GW Near Pit No. 5 Water Supply

3 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

30/12/2023

03/01/2024 04/01/2024

12/01/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.28	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	124.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	43.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.34	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	13.61	mg/L	APHA 23rd Edn 3500 Mg B	30	75
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	e Agreeable
9	Sulphate	19.33	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	236.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	138.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

Al & Pl as Per 10500

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

Analyzed By Dr. Haragobinda Srcihandan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/02

M/s Moil Limited

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

Reporting Date: 13/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2030C/78A/V3/02

Sampling Date:

30/12/2023

Sample Drawn By: Sample Type: Laboratory Representative

Sample Receipt Date: Analysis Start Date: 03/01/2024 04/01/2024

Sample Type: Sample Description:

GW Near Pit No. 5 Water Supply

Analysis Start Date: Analysis End Date:

12/01/2024

Sample Quantity:

3 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.84	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 Dr. Haragobinda Srcihandan AHMEDABAD OF AHMEDAB OF AHMEDABAD OF AHMEDABAD OF AHMEDABAD OF AHMEDABAD OF AHMEDAB

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/02A

M/s Moil Limited

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

Reporting Date: 13/01/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2030C/78A/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

GW Near Pit No. 5 Water Supply

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

30/12/2023

03/01/2024 04/01/2024

12/01/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

Al & Pl as Per 10500

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

Analyzed By Dr. Haragobinda Srcihandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/03

M/s Moil Limited

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

Reporting Date: 13/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2030C/78A/V3/03

Sample Drawn By: Sample Type: Laboratory Representative

Waste Water

Sample Description:

WW Mine Discharge Water

Sample Quantity: 3.5 Sample Condition: Sa

3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

30/12/2023

03/01/2024 04/01/2024 12/01/2024

12/01/2024 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.28	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	42.00	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	100.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	3.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	28.67	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	2

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

Analyzed By
Dr. Haragobinda Srcihandan

AHMEDABAD PW

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/04

M/s Moil Limited

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

Reporting Date: 13/01/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2030C/78A/V3/04

Laboratory Representative

Ambient Air Near Pit No. 2

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: 3
Sample Receipt Date: 0

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 30/12/2023 31/12/2023

03/01/2024

04/01/2024-12/01/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.90	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.50	μg/m3	IS 5182-Part 2	_ 80
4	Nitrogen Dioxide (NO2)	14.96	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.65	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

HZ

Analyzed By Dr. Haragobinda Srcihandan AHMEDABAD P

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/04

M/s Moil Limited

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

Reporting Date: 13/01/2024



04/01/2024-12/01/2024

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2030C/78A/V3/04

Laboratory Representative Ambient Air

Ambient Temperature

Near Pit No. 2

Satisfactory

Sampling Start Date: 30/12/2023 Sampling End Date: 31/12/2023 03/01/2024

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

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	43	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/05

M/s Moil Limited

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

Reporting Date: 13/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2030C/78A/V3/05

Laboratory Representative

Ambient Air

Near Sukala Village Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

04/01/2024-12/01/2024

25±5°C

30/12/2023

31/12/2023

03/01/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.23	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.52	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.83	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.65	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)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/05

M/s Moil Limited

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

Reporting Date: 13/01/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2030C/78A/V3/05

Laboratory Representative

Ambient Air

Near Sukala Village Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 30/12/2023 31/12/2023

03/01/2024

04/01/2024-12/01/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	43	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0	mm	GGMPL/SOP/MP/01:2020	0.0
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/07

M/s Moil Limited

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

Reporting Date: 13/01/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

30/12/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2030C/7 8A/V3/08A	Nr. Pit No.02	Day Time	dB(A)Leq	IS 4758	65.9	75
2	Lab/PN/2030C/7 8A/V3/08B	Near Sukali Village	Day Time	dB(A)Leq	IS 4758	61.2	75
3	Lab/PN/2030C/7 8A/V3/08C	Haul Road	Day Time	dB(A)Leq	IS 4758	64.6	75

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2030C/78A/V3/06

M/s Moil Limited

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

Reporting Date: 13/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2030C/78A/V3/06

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: 30/12/2023 31/01/2024

03/01/2024

04/01/2024-12/01/2024 24

Total Sampling hours: 24
Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.17	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.66	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.37	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.65	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	ī
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/2030C/78A/V3/06

M/s Moil Limited

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

Reporting Date: 13/01/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2030C/78A/V3/06 Laboratory Representative

Ambient Air Haul Road

Ambient Temperature Satisfactory

Sampling Start Date: 30/12/2023 Sampling End Date: 31/01/2024 Sample Receipt Date: 03/01/2024

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing:

04/01/2024-12/01/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	42	%	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	0.00000
16	Wind Speed	3.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

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