

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/924C/77A/V2/01

M/s Moil Limited

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

Reporting Date: 18/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

L

Lab/PN/924C/77A/V2/01

Sampling Date:

04/08/2023

Sample Drawn By:

Laboratory Representative

Mine Discharge Water (WW)

Sample Receipt Date:

07/08/2023

Sample Type:

Waste Water

Analysis Start Date: Analysis End Date: 08/08/2023 17/08/2023

Sample Description: Sample Quantity:

3.5L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.43	-	IS 3025- Part 11	-2
2	Total Suspended Solids	33.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	€ .
4	Chemical Oxygen Demand	75.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	23.00	mg/L	IS 3025- Part 44	
7	Manganese as Mn	0.42	mg/L	APHA 23rd Edn 3120 B	•

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

Soch

Analyzed By Sachi Patel



Authorized Signatory Payal Patel

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/02

M/s Moil Limited

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

Reporting Date: 18/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/924C/77A/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Mine Office Open Dug Well(GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

GGMPL/WI/27A Sealed

04/08/2023

07/08/2023

08/08/2023

17/08/2023

Packing:

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.32	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	98.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	37.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	41.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.27	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	23.21	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	282.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	167.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	17.00	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

Sachi

Analyzed By Sachi Patel



Authorized Signatory Payal Patel

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

Reporting Date: 18/08/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/924C/77A/V2/02

Sampling Date:

04/08/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

07/08/2023

Sample Type:

Water

Analysis Start Date:

08/08/2023

Sample Description:

Mine Office Open Dug Well(GW)

Analysis End Date: Sampling Method:

17/08/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition:

3.5L

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	2.29	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 Sachi Patel

Authorized Signatory Payal Patel

Page No: 2/2

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Report Number: GGMPL/PN/924C/77A/V2/02A

M/s Moil Limited

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

Reporting Date: 18/08/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/924C/77A/V2/02

Laboratory Representative Water

Sample Drawn By: 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:

08/08/2023 17/08/2023

Packing:

GGMPL/WI/27A

04/08/2023

07/08/2023

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 Sachi Patel



Authorized Signatory Payal Patel

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M/s Moil Limited

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

Reporting Date: 18/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/924C/77A/V2/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

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: 04/08/2023

07/08/2023 08/08/2023

17/08/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.49		IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	116.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	30.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	27.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.17	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	21.14	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	18.59	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	234.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	163.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	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

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Analyzed By Sachi Patel



Authorized Signatory Payal Patel

P.B. PUR

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M/s Moil Limited

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

Reporting Date: 18/08/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/924C/77A/V2/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description: Sample Quantity:

Sitapatere Village Open Dugwell (GW)

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

04/08/2023

07/08/2023 08/08/2023

17/08/2023 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	2.81	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 Sachi Patel



Authorized Signatory Payal Patel

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M/s Moil Limited

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

Reporting Date: 18/08/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/924C/77A/V2/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Sitapatere Village Open Dugwell (GW)

Sample Quantity:

3.5L

Satisfactory

Sample Condition:

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

04/08/2023

07/08/2023 08/08/2023

17/08/2023 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 Sachi Patel AHMEDABAD PV

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/04

M/s Moil Limited

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

Reporting Date: 18/08/2023

TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/924C/77A/V2/04 Laboratory Representative

Water

Mine Premises Borewell Water (GW)

3.5L Satisfactory Sampling Date:

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

Sampling Method: Packing:

07/08/2023 08/08/2023 17/08/2023

04/08/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.52	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	126.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	38.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.13	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	14.79	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	239.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	182.00	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

Sachi Patel



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Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/04

M/s Moil Limited

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

Reporting Date: 18/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/924C/77A/V2/04

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Laboratory Representative

Mine Premises Borewell Water (GW)

3.5L

Satisfactory

Sampling Date:

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

Sampling Method: Packing:

04/08/2023

07/08/2023 08/08/2023 17/08/2023

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 No.
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	2.86	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 Sachi Patel

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/04A

M/s Moil Limited

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

Reporting Date: 18/08/2023

SAMPLE DETAILS

Lab ID:

Laboratory Representative

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/924C/77A/V2/04

Water

Mine Premises Borewell Water (GW)

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

04/08/2023

07/08/2023 08/08/2023

17/08/2023 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 Sachi Patel

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/05

M/s Moil Limited

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

Reporting Date: 18/08/2023



04/08/2023

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/924C/77A/V2/05 Laboratory Representative Ambient Air Near Mine Office Ambient Temperature Satisfactory

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

05/08/2023 07/08/2023 08/08/2023-17/08/2023

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

C+ No	Parameters	Results	Unit	Test Method	NAAQ Standards
Sr.No					
1	Particulate Matter (PM10)	65.24	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.35	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.06	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.94	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Sachi Patel



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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/05

M/s Moil Limited

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

Reporting Date: 18/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/924C/77A/V2/05

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:

ours: 24

Env. Cond.-Testing:

04/08/2023 05/08/2023 07/08/2023

08/08/2023-17/08/2023

25±5°C

13 Relative Humidity 56 % GGMPL/SOP/MP/01 14 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4	NAAQ Standards
14 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4	NS
	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 Sachi Patel AHMEDABAD PV

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/06

M/s Moil Limited

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

Reporting Date: 18/08/2023



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/924C/77A/V2/06 Laboratory Representative Ambient Air Near Mine Pit

Ambient Temperature Satisfactory

Sampling Start Date: 04/08/2023 Sampling End Date: 05/08/2023 Sample Receipt Date: 07/08/2023

Analysis start- End Date: 08/08/2023-17/08/2023Total Sampling hours: 24Env. Cond.-Testing: $25\pm5^{\circ}$ C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.32	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.81	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.22	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.63	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.49	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)	1.07	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Sachi Patel CHANGO POR CHANGE OF THE CHANG

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/06

M/s Moil Limited

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

Reporting Date: 18/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/924C/77A/V2/06

Laboratory Representative

Ambient Air Near Mine Pit

Ambient Temperature

Satisfactory

Sampling Start Date: 04/08/2023 05/08/2023 Sampling End Date:

Sample Receipt Date: 07/08/2023 Analysis start- End Date: 08/08/2023-17/08/2023

Total Sampling hours:

Env. Cond.-Testing: 25±5°C

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

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

Analyzed By Sachi Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/07

M/s Moil Limited

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

Reporting Date: 18/08/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/924C/77A/V2/07 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:

04/08/2023 05/08/2023

07/08/2023

08/08/2023-17/08/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.93	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.08	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.49	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.55	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.26	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)	1.09	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
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Sachi Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/07

M/s Moil Limited

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

Reporting Date: 18/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/924C/77A/V2/07

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: 04/08/2023 05/08/2023

07/08/2023

08/08/2023-17/08/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13 R	Relative Humidity	53	%	GGMPL/SOP/MP/01	NS
14 L	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15 V	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Sachi Patel AHMEDABAD A CHANGE

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/08

M/s Moil Limited

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

Reporting Date: 18/08/2023



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/924C/77A/V2/08 Laboratory Representative Ambient Air Near Sitapatore Village

Near Sitapatore Village Ambient Temperature Satisfactory

 Sampling Start Date:
 04/08/2023

 Sampling End Date:
 05/08/2023

 Sample Receipt Date:
 07/08/2023

 Analysis start- End Date:
 08/08/2023-17/08/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.97	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.41	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.31	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.31	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)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Sachi Patel AHMEDABAD P

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/08

M/s Moil Limited

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

Reporting Date: 18/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/924C/77A/V2/08

Laboratory Representative

Ambient Air

Near Sitapatore Village Ambient Temperature

Satisfactory

Sampling Start Date: 04/ Sampling End Date: 05/

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: 24 Env. Cond.-Testing: 25:

04/08/2023 05/08/2023 07/08/2023

08/08/2023-17/08/2023

25±5°C

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

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

Analyzed By Sachi Patel

AHMEDABAD W

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/924C/77A/V2/09

M/s Moil Limited

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

Reporting Date: 18/08/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

04/08/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/924C/77 A/V2/09A	Nr Office Premises	Day Time	dB(A)Leq	IS 4758	58.2	75
2	Lab/PN/924C/77 A/V2/09B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	63.5	75
3	Lab/PN/924C/77 A/V2/09C	Drill Machine	Day Time	dB(A)Leq	IS 4758	68.1	75
4	Lab/PN/924C/77 A/V2/09D	Nr Excavater	Day Time	dB(A)Leq	IS 4758	65.2	75

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/925C/77B/V2/01

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/925C/77B/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Open Dugwell Water Supply (GW)

Sample Quantity: Sample Condition:

Satisfactory

3.5L

Sampling Date:

04/08/2023 07/08/2023

Sample Receipt Date: Analysis Start Date:

08/08/2023

Analysis End Date: Sampling Method:

14/08/2023 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.28	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	126.00	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	88.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	2	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.32	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.50	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	39.64	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	286.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	154.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	13.00	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 Krima Solanki



Authorized Signatory Payal Patel

P.B.Pay

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/925C/77B/V2/01

M/s Moil Limited

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

Reporting Date: 16/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/925C/77B/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Open Dugwell Water Supply (GW)

Sample Quantity:

Sample Condition:

vvalei

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

04/08/2023

07/08/2023 08/08/2023 14/08/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.8	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	3.95	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

Kels

Analyzed By Krima Solanki



Authorized Signatory Payal Patel

P.B. Puter

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/925C/77B/V2/01A

M/s Moil Limited

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

Reporting Date: 16/08/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/925C/77B/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Open Dugwell Water Supply (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

04/08/2023

07/08/2023 08/08/2023

14/08/2023 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 Krima Solanki

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/925C/77B/V2/02

M/s Moil Limited

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

Reporting Date: 16/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/925C/77B/V2/02

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: 04/08/2023

05/08/2023 07/08/2023

08/08/2023-14/08/2023

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.49	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	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)	16.10	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	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)	1.15	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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Analyzed By Krima Solanki AHMEDABAD V

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/925C/77B/V2/02

M/s Moil Limited

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

Reporting Date: 16/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/925C/77B/V2/02 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: 04/08/2023 05/08/2023 07/08/2023

08/08/2023-14/08/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	82	%	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 Krima Solanki

E (AHMEDABAD) VI

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/925C/77B/V2/03

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

04/08/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/925C/77 B/V2/03	Haul Road	Day Time	dB(A)Leq	IS 4758	58.3	75
1	B/V2/03	Haul Road	Day Time	ub(A)Leq	15 47 50	30.3	

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

Analyzed By Krima Solanki

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/01

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/926C/78A/V2/01

La

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

Sukali Village Borewell (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

04/08/2023

07/08/2023 08/08/2023

14/08/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.36	-	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	27.25	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	68.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	2	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.28	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	enking it	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	28.76	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	268.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	142.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	17.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

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Analyzed By Krima Solanki



Authorized Signato

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/01

M/s Moil Limited

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

Reporting Date: 16/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/926C/78A/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Sukali Village Borewell (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

04/08/2023

07/08/2023 08/08/2023

14/08/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.69	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	4.95	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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

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Analyzed By Krima Solanki



Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/01A

M/s Moil Limited

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

Reporting Date: 16/08/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/926C/78A/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Sukali Village Borewell (GW)

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

04/08/2023

07/08/2023 08/08/2023

14/08/2023 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 Krima Solanki HAN/

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/02

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/926C/78A/V2/02

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

Near Pit No-5 Water Supply (GW)

Sample Quantity:

3.5L

Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

04/08/2023

07/08/2023 08/08/2023 14/08/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.15	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	156.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	100
4	Chloride	62.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	2	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.38	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.93	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	22.59	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	298.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	172.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	19.00	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 Krima Solanki



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/02

M/s Moil Limited

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

Reporting Date: 16/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/926C/78A/V2/02

Sampling Date: Sample Receipt Date: 04/08/2023

Laboratory Representative Water

Analysis Start Date:

07/08/2023 08/08/2023

Sample Description:

Sample Drawn By:

Sample Type:

Near Pit No-5 Water Supply (GW)

Analysis End Date:

14/08/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5L

Satisfactory

Sampling Method:

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.87	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	5.65	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 Krima Solanki



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/02A

M/s Moil Limited

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

Reporting Date: 16/08/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/926C/78A/V2/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Near Pit No-5 Water Supply (GW)

Sample Quantity:

Sample Condition:

3.5L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

04/08/2023

07/08/2023

08/08/2023 14/08/2023

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 Krima Solanki

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/03

M/s Moil Limited

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

Reporting Date: 16/08/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/926C/78A/V2/03

Sampling Date:

04/08/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

07/08/2023

Sample Type:

Waste Water

Analysis Start Date:

08/08/2023

Sample Description: Sample Quantity:

Mine Discharge Water (WW) 3.5L

Analysis End Date: Sampling Method: 14/08/2023 GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.38	-	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	110.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	3.5	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	26	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.112	mg/L	APHA 23rd Edn 3120 B	2

Norms as per CCA.

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

John

Analyzed By Krima Solanki



Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/04

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/926C/78A/V2/04

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:

04/08/2023

05/08/2023 07/08/2023

08/08/2023-14/08/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.88	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)	10.52	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.84	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)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Krima Solanki

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/04

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/926C/78A/V2/04

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:

04/08/2023 05/08/2023

07/08/2023

08/08/2023-14/08/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	82	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	11
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 Krima Solanki

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/05

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/926C/78A/V2/05

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:

04/08/2023

05/08/2023 07/08/2023

08/08/2023-14/08/2023

24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.04	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.74	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.32	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Krima Solanki



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/05

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/926C/78A/V2/05

Laboratory Representative

Ambient Air Near Sukali Village Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

07/08/2023 08/08/2023-14/08/2023

25±5°C

04/08/2023

05/08/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	82	%	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 Krima Solanki

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/06

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/926C/78A/V2/06

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:

04/08/2023

05/08/2023 07/08/2023

08/08/2023-14/08/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.34	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.01	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.44	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)	1.11696	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Krima Solanki

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/06

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/926C/78A/V2/06

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:

04/08/2023

05/08/2023 07/08/2023

08/08/2023-14/08/2023

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	82	%	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

Dello

Analyzed By Krima Solanki



Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/926C/78A/V2/07

M/s Moil Limited

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

Reporting Date: 16/08/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

04/08/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/926C/78 A/V2/07A	Nr. Pit No. 2	Day Time	dB(A)Leq	IS 4758	56.8	75
2	Lab/PN/926C/78 A/V2/07B	Nr. Sukali Village	Day Time	dB(A)Leq	IS 4758	60.3	75
3	Lab/PN/926C/78 A/V2/07C	Haul Road	Day Time	dB(A)Leq	IS 4758	59.3	75

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

Analyzed By Krima Solanki HANIS

Authorized Signatory Manish Kumawat

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