

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/2447D/06C/01

M/s Moil Limited

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

Reporting Date: 31/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2447D/06C/01

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:

23/10/2024

24/10/2024 25/10/2024

26/10/2024-30/10/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	76.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.63	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.98	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.76	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.39	µg/m3	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

CHA

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

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Reporting Date: 31/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2447D/06C/01

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:

23/10/2024

24/10/2024 25/10/2024

26/10/2024-30/10/2024

24 25±5°C

Parameters	Results	Unit	Test Method	
Temperature				NAAQ Standards
remperature	32	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
Rainfall	0.0	mm	GGMPL/SOP/MP/01+2020	
Lead	BOL (OL =0.001)	110/002		NS
	DQL (QL-0.001)	µg/m3	USEPA Method IO 3.4	1
Wind Speed	1.38	m/s	GGMPL/SOP/MP/01:2020	NS
	Temperature Relative Humidity Rainfall	Temperature 32 Relative Humidity 56 Rainfall 0.0 Lead BQL (QL=0.001)	Temperature 32 °C Relative Humidity 56 % Rainfall 0.0 mm Lead BQL (QL=0.001) µg/m3	Temperature 32 °C GGMPL/SOP/MP/01 Relative Humidity 56 % GGMPL/SOP/MP/01 Rainfall 0.0 mm GGMPL/SOP/MP/01:2020 Lead BQL (QL=0.001) µg/m3 USEPA Method IO 3.4

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

Analyzed By Kinjal Damor

End of Report ---

AHMEDABAD

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/2447D/06C/02

M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2447D/06C/02

Laboratory Representative

Ambient Air Near mine Pit

Ambient Temperature

Satisfactory

Sampling Start Date:

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

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

26/10/2024 27/10/2024

27/10/2024 25/10/2024

26/10/2024-30/10/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAO Standard
1	Particulate Matter (PM10)	70.38	μg/m3	IS 5182- Part 23	NAAQ Standards 100
2	Particulate Matter (PM2.5)	30.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02	60
3	Sulphur Dioxide (SO2)	13.69	µg/m3	August 01 IS 5182-Part 2	THE CONTRACTOR
4	Nitrogen Dioxide (NO2)	24.14	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.63	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.83	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2447D/06C/02

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:

26/10/2024

27/10/2024 25/10/2024

26/10/2024-30/10/2024

24

25±5°C

Parameters	Results	Line	1941 VICE N 19 19 19 19 19 19 19 19 19 19 19 19 19	
	Results	Unit	Test Method	NAAQ Standards
ture	32	°C	GGMPL/SOP/MP/01	NS
Humidity	57	%	GGMPL/SOP/MP/01	
	0.0	mm		NS
	BOI (OI -0 001)			NS
	DQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
ed	1.11	m/s	GGMPL/SOP/MP/01:2020	NS
	ture Humidity	ture 32 Humidity 57 0.0 BQL (QL=0.001)	ture 32 °C Humidity 57 % 0.0 mm BQL (QL=0.001) μg/m3	ture 32 °C GGMPL/SOP/MP/01 Humidity 57 % GGMPL/SOP/MP/01 0.0 mm GGMPL/SOP/MP/01:2020 BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Analyzed By Kinjal Damor

End of Report ---

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/03

M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2447D/06C/03 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:

Total Sampling hours: Env. Cond.-Testing: 26/10/2024 27/10/2024 25/10/2024

26/10/2024-30/10/2024 24

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Was a
1	Particulate Matter (PM10)	75.15	μg/m3	IS 5182- Part 23	NAAQ Standards
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02	100
3	Sulphur Dioxide (SO2)	14.07	μg/m3	August 01 IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.49	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.89	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.26	µg/m3	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	1
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor AHMEDABAD TO A CONTROL OF THE CHANGE OF THE

Authorized Signatory Manish Kumawat

Page No: 1/2

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M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2447D/06C/03

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:

26/10/2024

27/10/2024 25/10/2024

26/10/2024-30/10/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	
12 Te	mperature		Offic	rest Method	NAAQ Standards
	A	33	°C	GGMPL/SOP/MP/01	NS
13 Re	lative Humidity	57	%	GGMPL/SOP/MP/01	
14 Ra	infall				NS
	n i di	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 Lea	ad	BQL (QL=0.001)	µg/m3	LICEDA M. H. LTO.	113
40 110		5QL (QL-0.001)	ру/1113	USEPA Method IO 3.4	1
16 Wir	nd Speed	0.83	m/s	GGMPL/SOP/MP/01:2020	110
			100000	2,001/111/01.2020	NS

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Analyzed By Kinjal Damor

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Report Number: GGMPL/PN/2447D/06C/04

M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

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

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

Lab/PN/2447D/06C/04 Laboratory Representative Ambient Air

Near Sitapatore Village Ambient Temperature

Satisfactory

Sampling Start Date: 23/10/2024 Sampling End Date: 24/10/2024 Sample Receipt Date: 25/10/2024

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

26/10/2024-30/10/2024 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAO Charl
1 F	Particulate Matter (PM10)	77.51	µg/m3	IS 5182- Part 23	NAAQ Standard
2 F	Particulate Matter (PM2.5)	34.99	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	100
3 S	Sulphur Dioxide (SO2)	12.19	μg/m3	IS 5182-Part 2	80
4 N	Vitrogen Dioxide (NO2)	32.28	μg/m3	IS 5182- Part 6	80
5 C	Ozone (O3)	14.98	μg/m3	IS 5182- Part 9	180
6 A	ammonia (NH3)	15.39	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7 B	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8 B	enzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9 C	arbon Monoxide (CO)	1.02	mg/m3	IS 5182- Part 10	4
10 N	lickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11 A	rsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Kinjal Damor

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M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2447D/06C/04

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:

23/10/2024

24/10/2024 25/10/2024

26/10/2024-30/10/2024

24 25±5°C

Parameters	Results	Unit	Toot Mothad	
		Offic	rest Metriod	NAAQ Standards
ire	33	°C	GGMPL/SOP/MP/01	NS
umidity	58	0/2		145
		70	GGMPL/SOP/MP/01	NS
	0.0	mm	GGMPL/SOP/MP/01:2020	NS
	BOL (OI =0.001)	na/m3	LICEDA Mathad IO 3 4	
	- 4- (4- 0.001)	pg/ms	OSEPA Metriod 10 3.4	1
a	1.11	m/s	GGMPL/SOP/MP/01:2020	NS
	ure umidity	umidity 58 0.0 BQL (QL=0.001)	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	33 °C GGMPL/SOP/MP/01 umidity 58 % GGMPL/SOP/MP/01 0.0 mm GGMPL/SOP/MP/01:2020 BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Analyzed By Kinjal Damor

--- End of Report ---

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Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/05

M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

23/10/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Took Mathad		
1	Lab/PN/2447D/0	Near Office Premises			Test Method	Reading	Norms
	6C/05A	Near Office Premises	Day Time	dB(A)Leq	IS 4758	63.1	
4	Lab/PN/2447D/0 6C/05B	Dumper Loaded	Day Time	dB(A)Leq	IS 4758	64.7	
3	Lab/PN/2447D/0 6C/05C	Drill machine	Day Time	db(A)Leq	IS 4758	65.9	
4	Lab/PN/2447D/0 6C/05C	Near Excavatore	Day Time	db(A)Leq	IS 4758	64.8	

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/06

M/s Moil Limited

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

Reporting Date: 31/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2447D/06C/06

Laboratory Representative

G.W oF Mine Office open dugewell 3 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

24/10/2024

25/10/2024 26/10/2024

30/10/2024 GGMPL/WI/27A

Sealed

Specification:

					9	specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	186.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	46.09	mg/L	APHA 23rd Edn 3500 Ca B	75	
3	Chloride	34.48	mg/L	IS 3025- Part 32		200
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	250	1000
5	Fluoride	0.55	mg/L	APHA 23rd Edn 4500 F D	5	15
6	Magnesium as Mg	19.68	mg/L	APHA 23rd Edn 3500 Mg B	1.0	1.5
7	Odour	Agreeable	-	IS 3025- Part 5		100
8	pH at 25 °C	7.68		IS 3025- Part 11	6.5-8.5	e Agreeable No
9	Sulphate	38.19	mg/L	APHA 23rd Edn 4500 SO4 E		relaxation
10	Total Dissolved Solids (TDS)	320.00	mg/L	APHA 23rd Edn 2540 C	200	400
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	500 NG	2000
12	Total Hardness as CaCO3	196.00	mg/L	APHA 23rd Edn 2340 C	NS 200	NS
					200	600

AL & PL AS Per IS 10500

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

Analyzed By Kinjal Damor



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/06

M/s Moil Limited

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

Reporting Date: 31/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Quantity: Sample Condition: Lab/PN/2447D/06C/06

Laboratory Representative Water

G.W oF Mine Office open dugewell

3 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

24/10/2024

25/10/2024 26/10/2024 30/10/2024

GGMPL/WI/27A Sealed

Specification:

relaxation

SI.IVC	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.92	mg/L	APHA 23rd Edn 4500 NO3 B	45	No

AL & PL AS Per IS 10500

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

Analyzed By Kinjal Damor AHMEDABAD V

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/07

M/s Moil Limited

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

Reporting Date: 31/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2447D/06C/07

24/10/2024

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

25/10/2024 26/10/2024

Sample Description:

Water G.W of Sitapatore Village Open Dugewell

Satisfactory

Analysis End Date:

Sampling Date:

30/10/2024

Sample Quantity: Sample Condition:

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	112.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	34.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	24.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	9.72	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.69	-	IS 3025- Part 11	6.5-8.5	No
9	Sulphate	24.89	mg/L	APHA 23rd Edn 4500 SO4 E	200	relaxation 400
10	Total Dissolved Solids (TDS)	173.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	125.00	mg/L	APHA 23rd Edn 2340 C	200	600
						5350

AL & PL AS Per IS 10500

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/07

M/s Moil Limited

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

Reporting Date: 31/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2447D/06C/07

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

G.W of Sitapatore Village Open Dugewell

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 24/10/2024

25/10/2024 26/10/2024

26/10/2024 30/10/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.00	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL AS Per IS 10500

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

Analyzed By Kinjal Damor

--- End of Report ---

AHMEDARAD

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/08

M/s Moil Limited

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

Reporting Date: 31/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2447D/06C/08

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity: Sample Condition:

G.W of Mine Permises Borewell Water

3 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

24/10/2024

25/10/2024 26/10/2024

30/10/2024 GGMPL/WI/27A

Sealed

						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	115.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	30.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	29.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.15	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	10.20	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.35	-	IS 3025- Part 11	6.5-8.5	No
9	Sulphate	13.39	mg/L	APHA 23rd Edn 4500 SO4 E	200	relaxation 400
10	Total Dissolved Solids (TDS)	193.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	120.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL AS Per IS 10500

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

Analyzed By Kinjal Damor

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/08

M/s Moil Limited

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

Reporting Date: 31/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2447D/06C/08

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

G.W of Mine Permises Borewell Water

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

24/10/2024

25/10/2024

26/10/2024 30/10/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No Para	ameters Results	Unit	Test Method	AL	PL
13 Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14 Iron	BQL (QL=0.05	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15 Manganese	BQL (QL=0.05) mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16 Nitrate	1.04	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL AS Per IS 10500

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

Analyzed By Kinjal Damor

--- End of Report ---

AHMEDABAD

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2447D/06C/09

M/s Moil Limited

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

Reporting Date: 31/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/2447D/06C/09

Laboratory Representative

Waste Water W.W Of Mine Dishcharge Water

5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

24/10/2024

25/10/2024 26/10/2024

30/10/2024 GGMPL/WI/27A

Sealed

C+ NI-	The second second second					
Sr.No	Parameters Parameters	Results	Unit	Test Method	Norm	
1	pH at 25 °C	7.43		IS 3025- Part 11	-	
2	Total Suspended Solids	39.00	mg/L	APHA 23rd Edn 2540 D		
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39		
4	Chemical Oxygen Demand	56.00	mg/L	APHA 23rd Edn 5220 B		
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38		
6	BOD at 27 o C for 3 days	19	mg/L	IS 3025- Part 44		
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46		
						-2.79

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

Analyzed By Kinjal Damor AHMEDABAD P

Authorized Signatory Manish Kumawat

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2456D/77/01

M/s Moil Limited

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

Reporting Date: 30/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2456D/77/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Mine Office Open Dug Well(GW)

Sample Quantity: 500 ML

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

24/10/2024

25/10/2024 25/10/2024

25/10/2024 30/10/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No		Parameters	Results	Unit	Test Method	AL	PL
1	Total colifor	m	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli		Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Komal Yadav AHMEDABAD P

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2456D/77/02

M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2456D/77/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Sitapatere Village Open Dugwell (GW)

Sample Quantity:

500 ML

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

24/10/2024

25/10/2024 25/10/2024

30/10/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	API IA 9221D 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

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Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2456D/77/03

M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2456D/77/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Mine Premises Borewell Water (GW)

Sample Quantity: Sample Condition: 500 ML

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

24/10/2024

25/10/2024 25/10/2024

30/10/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2448D/77A/01

M/s Moil Limited

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

Reporting Date: 30/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2448D/77A/01

Laboratory Representative

Ambient Air Haul Road Satisfactory

Ambient Temperature

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

23/10/2024

24/10/2024 25/10/2024

25/10/2024-29/10/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.70	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.47	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.16	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.92	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	6.08	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

CHA

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

Analyzed By Manoj Kumar

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2448D/77A/01

M/s Moil Limited

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

Reporting Date: 30/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2448D/77A/01

Laboratory Representative

Ambient Air Haul Road Satisfactory

Ambient Temperature

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

25/10/2024 25/10/2024-29/10/2024

23/10/2024

24/10/2024

24

Env. Cond.-Testing: 25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	32	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
Wind Speed	1.11	m/s	GGMPL/SOP/MP/01:2020	NS
-	Temperature Relative Humidity Rainfall Lead	Temperature 32 Relative Humidity 56 Rainfall 0.0 Lead BQL (QL=0.001)	Temperature 32 °C Relative Humidity 56 % Rainfall 0.0 mm Lead BQL (QL=0.001) μg/m3	Temperature 32 °C GGMPL/SOP/MP/01 Relative Humidity 56 % GGMPL/SOP/MP/01 Rainfall 0.0 mm GGMPL/SOP/MP/01:2020 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Manoj Kumar

End of Report --

AHMEDABAD

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2448D/77A/02

M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

23/10/2024

Source Noise

Sr.No Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1 Lab/PN/2448 7A/02A	D/7 Haul Road	Day Time	dB(A)Leq	IS 4758	56.1	

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

Analyzed By Manoj Kumar AHMEDABAD End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2448D/77A/03

M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2448D/77A/03

Sampling Date:

23/10/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

25/10/2024

Sample Type:

Water

Analysis Start Date:

25/10/2024 29/10/2024

Sample Description:

G.W of Open Dugwell Water Supply

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

				The State Carlo Company of the Compa	S	pecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	162.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	41.68	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	81.97	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	27.94	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable		IS 3025 Part 5	Agreeable	e Agreeable
7	pH at 25 °C	7.72		IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	32.14	mg/L	APHA 23rd Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	342.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	219.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	14.00	mg/L	APHA 23rd Edition (2540 D)	NS	NS

AL & PL As Per IS 10500

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

Analyzed By Manoj Kumar AHMEDABAD TO PROPERTY OF THE P

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Page No: 1/2

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M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2448D/77A/03

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Description:

Sample Quantity:

Sample Condition:

3 L

Satisfactory

G.W of Open Dugwell Water Supply

Sampling Date:

23/10/2024 Sample Receipt Date: 25/10/2024

Analysis Start Date: Analysis End Date:

25/10/2024 29/10/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No		Parameters	Results	Unit	Test Method	AL	PL
12	Turbidity		BQL (QL=0.1)	NTU	APHA 23rd Edition (2130 B):	1	5
13	Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)		0.21	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate		2.42	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 Manoj Kumar

--- End of Report ---

CHAN

AHMEDABAD

Authorized Signatory Manish Kumawat

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2457D/77A/01

M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2457D/77A/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Open Dugwell Water Supply (GW)

Sample Quantity:

500 ML

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

24/10/2024

25/10/2024 25/10/2024

30/10/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By

--- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/01

M/s Moil Limited

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

Reporting Date: 06/11/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2449D/78/01

Laboratory Representative

Ambient Air

Near Pit No. 2 Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

23/10/2024

24/10/2024 24/10/2024

25/10/2024-05/11/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.90	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	24.30	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.99	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.92	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.59	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

P

Analyzed By Dishant Patel AHMEDABAD P

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/01

M/s Moil Limited

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

Reporting Date: 06/11/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2449D/78/01

Laboratory Representative

Ambient Air Near Pit No. 2

Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 23/10/2024

24/10/2024 24/10/2024

25/10/2024-05/11/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Rainfall	00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	1.11	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Analyzed By Dishant Patel AHMEDABAD B

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/02

M/s Moil Limited

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

Reporting Date: 06/11/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

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

Nickel as Ni

Arsenic as As

10

Lab/PN/2449D/78/02

Laboratory Representative

Ambient Air

Near Sukali Village Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

USEPA Method IO 3.4

USEPA Method IO 3.4

23/10/2024

24/10/2024 24/10/2024

25/10/2024-05/11/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.32	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.15	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.25	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.81	µg/m3	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	ma/m3	IS 5182- Part 10	4

ng/m3

ng/m3

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

Analyzed By Dishant Patel AHMEDABAD PP

BQL (QL=5)

BQL (QL=1)

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/02

M/s Moil Limited

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

Reporting Date: 06/11/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2449D/78/02

Laboratory Representative Ambient Air

Near Sukali Village Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

23/10/2024

24/10/2024 24/10/2024

25/10/2024-05/11/2024

24 25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
emperature	32	°C	GGMPL/SOP/MP/01	NS
elative Humidity	56	%	GGMPL/SOP/MP/01	NS
ainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
ead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
/ind Speed	0.83	m/s	GGMPL/SOP/MP/01:2020	NS
	emperature elative Humidity ainfall ead	emperature 32 elative Humidity 56 ainfall 0.0 BQL (QL=0.001)	emperature 32 °C elative Humidity 56 % ainfall 0.0 mm ead BQL (QL=0.001) µg/m3	emperature 32 °C GGMPL/SOP/MP/01 elative Humidity 56 % GGMPL/SOP/MP/01 ainfall 0.0 mm GGMPL/SOP/MP/01:2020 ead BQL (QL=0.001) µg/m3 USEPA Method IO 3.4

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

P

Analyzed By Dishant Patel AHMEDABAD P

CHAN

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/03

M/s Moil Limited

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

Reporting Date: 06/11/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2449D/78/03

Laboratory Representative

Ambient Air Haul Road

Ambient Temprature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 23/10/2024

24/10/2024 24/10/2024

25/10/2024-05/11/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	18.14	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.16	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.81	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Dishant Patel AHMEDABAD S

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/03

M/s Moil Limited

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

Reporting Date: 06/11/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2449D/78/03

Laboratory Representative

Ambient Air Haul Road

Ambient Temprature Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

23/10/2024

24/10/2024 24/10/2024

25/10/2024-05/11/2024

24 25±5°C

73.00		

Parameters	Results	Unit	Test Method	NAAQ Standards
e	32	°C	GGMPL/SOP/MP/01	NS
nidity	56	%	GGMPL/SOP/MP/01	NS
	0.0	mm	GGMPL/SOP/MP/01:2020	NS
	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
	1.39	m/s	GGMPL/SOP/MP/01:2020	NS
	e midity	midity 56 0.0 BQL (QL=0.001)	midity 56 % 0.0 mm BQL (QL=0.001) μg/m3	midity 56 % GGMPL/SOP/MP/01 0.0 mm GGMPL/SOP/MP/01:2020 BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Analyzed By Dishant Patel

End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/04

M/s Moil Limited

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

Reporting Date: 06/11/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

23/10/2024

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2449D/7 8/04A	Near Pit No.2	Day Time	dB(A)Leq	IS 4758	62.1	-
2	Lab/PN/2449D/7 8/04B	Near Sukali Village	Day Time	dB(A)Leq	IS 4758	61.2	-
3	Lab/PN/2449D/7 8/04C	Haul Road	Day Time	dB(A)Leq	IS 4758	56.4	-

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

Analyzed By Dishant Patel

Authorized Signatory Manish Kumawat

Page No: 1/1

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Report Number: GGMPL/PN/2449D/78/05

M/s Moil Limited

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

Reporting Date: 06/11/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2449D/78/05

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Sukali Village Borewell (GW)

Sample Quantity: Sample Condition:

3 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing: 23/10/2024 24/10/2024 25/10/2024

05/11/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	154.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	44.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	20.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.60	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.80	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.68		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	11.13	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	238.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	175.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As per IS 10500

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

Analyzed By Dishant Patel AHMEDABAD P

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/05

M/s Moil Limited

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

Reporting Date: 06/11/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2449D/78/05

Sampling Date:

23/10/2024

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

24/10/2024 25/10/2024

Sample Description:

Water Sukali Village Borewell (GW)

Analysis End Date: Sampling Method:

05/11/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

3 L

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.60	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 Dishant Patel

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/06

M/s Moil Limited

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

Reporting Date: 06/11/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2449D/78/06 Laboratory Representative

Water

Near Pit No-5 Water Supply (GW)

3 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

23/10/2024

24/10/2024 25/10/2024

Sealed

05/11/2024 GGMPL/WI/27A

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	68.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	18.04	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	67.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.61	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.32		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	20.63	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	237.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	135.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By Dishant Patel CHAN

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/06

M/s Moil Limited

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

Reporting Date: 06/11/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2449D/78/06

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Near Pit No-5 Water Supply (GW)

Sample Quantity:

3 L

Sample Condition: Satisfactory

Sampling Date:

23/10/2024

Sample Receipt Date: Analysis Start Date: 24/10/2024 25/10/2024

Analysis End Date:

05/11/2024

Sampling Method: Packing:

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.94	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 Dishant Patel AHMEDABAD P

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2449D/78/07

M/s Moil Limited

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

Reporting Date: 06/11/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2449D/78/07

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

Mine Discharge Water (WW)

Sample Quantity:

Sample Condition:

5 L

Satisfactory

Sampling Date:

Sample Receipt Date:

23/10/2024 24/10/2024

Analysis Start Date:

25/10/2024

Analysis End Date: Sampling Method:

05/11/2024 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.41	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	35.10	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	104.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.2	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	27	mg/L	IS 3025- Part 44	30
7	Manganese	0.525	mg/L	GGMPL/SOP/W & WW/46	

Norms As Per CTO

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

Analyzed By Dishant Patel AHMEDABAD End of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2458D/78/01

M/s Moil Limited

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

Reporting Date: 30/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2458D/78/01

Sample Drawn By: Sample Type: Laboratory Representative

Sample Description:

Ground Water

Sample Quantity:

Sukali Village Borewell (GW)

500 ML

Sample Condition:

Satisfactory

Sampling Date:

ampling Date.

24/10/2024 25/10/2024

Sample Receipt Date: Analysis Start Date:

25/10/2024

Analysis End Date:

30/10/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Komal Yadav

--- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2458D/78/02

M/s Moil Limited

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

Reporting Date: 30/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2458D/78/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Sample Condition:

Near Pit No-5 Water Supply (GW)

Sample Quantity:

500 ML

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

Sealed

24/10/2024

25/10/2024

25/10/2024

30/10/2024

GGMPL/WI/27A

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

-- End of Report --

Authorized Signatory Dr. Haragobinda Srichandan

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