

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/2630C/06A/V4/01

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2630C/06A/V4/01

Sample Drawn By: Sample Type:

Laboratory Representative

Ground Water

Sample Description: Sample Quantity:

D.W Mine Office

Sample Condition:

4.5 L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

28/03/2024 GGMPL/WI/27A

14/03/2024

16/03/2024

18/03/2024

Sealed

Specification:

					-	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	70.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	26.05	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	52.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.29	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	8.99	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.05		IS 3025- Part 11	6.5 - 8.5	No Relaxation
9	Sulphate	32.70	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	241.00	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	102.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

Analyzed By Kinjal Damor



Authorized Signatory Manish Kumawat

Page No: 1/2

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M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2630C/06A/V4/01

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description: Ground Water D.W Mine Office

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

14/03/2024

16/03/2024

18/03/2024

28/03/2024

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	0.3	No Relaxation
16	Nitrate	2.97	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

Kinjal Damor

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2633C/06A/V4/02

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 22/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2633C/06A/V4/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

DW Mine Office

Sample Quantity: Sample Condition:

300 ml

Satisfactory

Sampling Date:

14/03/2024

Sample Receipt Date:

16/03/2024

Analysis Start Date:

18/03/2024

Analysis End Date: Sampling Method:

21/03/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total o	coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.coli		Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By

Nidhi Shah End of Report

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Ground Water New Mine Colony Pump House (GW)

Lab/PN/2630C/06A/V4/02

Laboratory Representative

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

14/03/2024

16/03/2024

18/03/2024

28/03/2024

Sealed

					S	pecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	82.00	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	58.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.25	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.03	mg/L	APHA 23rd Edn 3500 Mg B	75	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.53		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	37.65	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	267.00	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

AL & PL As Per IS 10500.

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

Kinjal Damor

Authorized Signatory Manish Kumawat

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M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/2630C/06A/V4/02 Laboratory Representative Sampling Date: Sample Receipt Date:

14/03/2024 16/03/2024

Sample Type:

Ground Water

Analysis Start Date:

18/03/2024

Sample Description:

New Mine Colony Pump House (GW)

Analysis End Date:

28/03/2024

Sample Quantity:

Sample Condition:

4.5 L

Sampling Method:

GGMPL/WI/27A

Satisfactory

Packing: Sealed

j

Specification:

						Specification.
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	100.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.53	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 ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 22/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2633C/06A/V4/01

Sampling Date:

14/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

16/03/2024

Sample Type:

Water

Analysis Start Date:

18/03/2024 21/03/2024

Sample Description:

GW New Mine Colony Pump House

Analysis End Date:

GGMPL/WI/27A

Sample Quantity:

300 ml

Sampling Method:

Sample Condition:

Satisfactory

Packing:

Sealed

						Specification:
Sr.No	Parameters	Results	Unit Present or	Test Method	AL	PL
1	Total coliform	Absent		APHA 9222 A&B 24th Edition 2021	Absent	Absent
0			Present or			
2	E.coli	Absent	Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

End of Report

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2630C/06A/V4/03

Sample Drawn By: Sample Type:

Laboratory Representative

Ground Water

Sample Description: Sample Quantity:

D.W officer Colony No-4

4.5 L

Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

14/03/2024 16/03/2024

18/03/2024 28/03/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	85.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	55.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.20	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	7.29	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	6.86	- 15	IS 3025- Part 11	6.5 to 8.5	No Relayation
9	Sulphate	30.52	mg/L		200	Relaxation 400
10	Total Dissolved Solids (TDS)	215.00	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

Kinjal Damor



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Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

lab ID: Sample Drawn By:

Sample Type:

Lab/PN/2630C/06A/V4/03 Laboratory Representative

Ground Water

Sample Description: Sample Quantity:

Sample Condition:

D.W officer Colony No-4

4.5 L Satisfactory

Analysis End Date: Sampling Method:

Packing:

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

14/03/2024 16/03/2024

18/03/2024 28/03/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.56	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

Kinjal Damor

End of Report ---

AHMEDABA

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2633C/06A/V4/03

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 22/03/2024



TC-707

SAMPLE DETAILS

Lab ID:

Lab/PN/2633C/06A/V4/03

DW Officer Colony No.4

Sampling Date:

14/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

16/03/2024

Sample Type: Sample Description: Water

Analysis Start Date: Analysis End Date: 18/03/2024 21/03/2024

Sample Quantity:

300 ml

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification: Sr.No Parameters Results Unit Test Method AL PL Present or Total coliform Absent Absent/100 APHA 9222 A&B 24th Edition 2021 Absent Absent Present or E.coli Absent Absent/100 APHA 922H 24th Edition 2021 Absent Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah AHMEDABAD E

Authorized Signatory

Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2630C/06A/V4/04

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2630C/06A/V4/04

Sampling Date:

14/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date: 16/03/2024 18/03/2024

Sample Type: Sample Description: Ground Water Rest House D.W.

Analysis End Date:

28/03/2024

Sample Quantity:

4.5 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

					5	pecification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	75.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	32.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	47.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.62	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	5.58	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	e Agreeable
8	pH at 25 °C	7.01		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	23.28	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	150.00	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

AL & PL As Per IS 10500.

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

Analyzed By Kinjal Damor ECHAN/S AHMEDABAD P

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2630C/06A/V4/04

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2630C/06A/V4/04

Sampling Date:

14/03/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

16/03/2024 18/03/2024

Sample Type: Sample Description: Ground Water Rest House D.W. Analysis Start Date: Analysis End Date:

28/03/2024

Sample Quantity: Sample Condition:

4.5 L

Sampling Method:

GGMPL/WI/27A

Satisfactory

Packing:

Sealed

Specification: Sr.No **Parameters** Results Unit Test Method AL PI Total Hardness as CaCO3 105.00 APHA 23rd Edn 2340 C 12 mg/L 200 600 BQL (QL=0.1) Turbidity 13 NTU APHA 23rd Edn 2130 B 5 No 14 Iron BQL (QL=0.05) GGMPL/SOP/W & WW/46 mg/L 0.3 Relaxation 15 Manganese BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.1 0.3 No 16 Nitrate 3.19 APHA 23rd Edn 4500 NO3 B mg/L 45 Relaxation

AL & PL As Per IS 10500.

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

Analyzed By Kinjal Damor

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Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2633C/06A/V4/04

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 22/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2633C/06A/V4/04

Sampling Date:

14/03/2024

Sample Drawn By:

Laboratory Representative Water Sample Receipt Date:

16/03/2024 18/03/2024

Sample Type: Sample Description:

DW Rest House

Analysis Start Date: Analysis End Date:

21/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

300 ml Satisfactory

Sampling Method:

GGMFL/

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total o	coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E.coli		Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

AHMEDABAD

Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2630C/06A/V4/05

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2630C/06A/V4/05 Laboratory Representative Ambient Air Near Nayra Plant

Ambient Temperature
Laboratory Representative

Sampling Start Date: 14/03/2024 Sampling End Date: 15/03/2024 Sample Receipt Date: 16/03/2024

Analysis start- End Date: 18/03/2024-28/03/2024Total Sampling hours: 24Env. Cond.-Testing: $25\pm5^{\circ}$ C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.92	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.32	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.58	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.52	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.15	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.06	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2630C/06A/V4/05

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2630C/06A/V4/05 Laboratory Representative Ambient Air Near Nayra Plant Ambient Temperature Laboratory Representative Sampling Start Date:
Sampling End Date:
Sample Receipt Date:
Analysis start. End Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

15/03/2024 16/03/2024 18/03/2024-28/03/2024

14/03/2024

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	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

-- End of Report -

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2630C/06A/V4/06

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2630C/06A/V4/06 Laboratory Representative

Ambient Air

Near vertical Shaft 1 Ambient Temperature Laboratory Representative Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

18/03/2024-28/03/2024

25±5°C

14/03/2024

15/03/2024

16/03/2024

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	76.18	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2,5)	35.82	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.09	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.43	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.15	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.89	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2630C/06A/V4/06

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2630C/06A/V4/06 Laboratory Representative

Ambient Air

Near vertical Shaft 1 Ambient Temperature Laboratory Representative Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 14/03/2024 15/03/2024

25±5°C

16/03/2024

18/03/2024-28/03/2024 24

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor Authorized Signatory Manish Kumawat

Page No: 2/2

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nd of Report



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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2630C/06A/V4/07

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:
Sample Type:
Sample Description:
Env. Cond.-Sample Receipt:
Lab/PN/2630C/06A/V4/07
Laboratory Representative
Ambient Air
Near Workshop
Ambient Temperature
Laboratory Representative

 Sampling Start Date:
 14/03/2024

 Sampling End Date:
 15/03/2024

 Sample Receipt Date:
 16/03/2024

 Analysis start- End Date:
 18/03/2024-28/03/2024

 Total Sampling hours:
 24

Total Sampling hours: 24 Env. Cond.-Testing: $25\pm5^{\circ}\text{C}$

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.35	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.79	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.92	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.10	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)	1.07	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

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/2630C/06A/V4/07

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn B

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2630C/06A/V4/07

Laboratory Representative

Ambient Air Near Workshop Ambient Temperature

Laboratory Representative

Sampling Start Date:

Sampling End Date: 15/03/2024 Sample Receipt Date: 16/03/2024 Analysis start- End Date: 18/03/2024

Total Sampling hours: 22
Env. Cond.-Testing: 22

18/03/2024-28/03/2024

25±5°C

14/03/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

--- End of Report --

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2630C/06A/V4/08

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

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

Lab/PN/2630C/06A/V4/08 Laboratory Representative Ambient Air Near Ukwa Village Ambient Temperature Laboratory Representative

 Sampling Start Date:
 14/03/2024

 Sampling End Date:
 15/03/2024

 Sample Receipt Date:
 16/03/2024

 Analysis start- End Date:
 18/03/2024-28/03/2024

 Total Sampling hours:
 24

Total Sampling hours: 24 Env. Cond.-Testing: $25\pm5^{\circ}$ C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	75.16	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.03	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.18	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.39	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.48	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2630C/06A/V4/08

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2630C/06A/V4/08 Laboratory Representative Ambient Air

Near Ukwa Village Ambient Temperature Laboratory Representative Sampling Start Date: 14/03/2024 Sampling End Date: 15/03/2024 Sample Receipt Date: 16/03/2024

Analysis start- End Date: 18/03/2024-28/03/2024
Total Sampling hours: 24

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS
10	willia Speed	6.0	111/5	GGI*IPL/50P/I*IP/01:2020	INS

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/2630C/06A/V4/09

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

14/03/2024

Source Noise

r.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2630C/0 6A/V4/09A	Nr Nagra Plant	Day Time	dB(A)Leq	IS 4758	68.9	-
2	Lab/PN/2630C/0 6A/V4/09B	Near Vertical Shaft 1	Day Time	db(A)Leq	IS 4758	69.3	
3	Lab/PN/2630C/0 6A/V4/09C	Near Workshop	Day Time	db(A)Leq	IS 4758	67.3	
4	Lab/PN/2630C/0 6A/V4/09D	Near Ukwa Village	Day Time	db(A)Leq	IS 4758	66.7	-
5	Lab/PN/2630C/0 6A/V4/09A	Nr Nagra Plant	Night Time	db(A)Leq	IS 4758	58.1	
6	Lab/PN/2630C/0 6A/V4/09B	Near Vertical Shaft 1	Night Time	db(A)Leq	IS 4758	57.6	-
7	Lab/PN/2630C/0 6A/V4/09C	Near Workshop	Night	db(A)Leq	IS 4758	56.2	
8	Lab/PN/2630C/0 6A/V4/09D	Near Ukwa Village	Night	db(A)Leq	IS 4758	55.8	-

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

Analyzed By Kinjal Damor

- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/01

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/2631C/06B/V4/01 Laboratory Representative

Waste Water

Sample Description:

Mine Seapage Water (WW)

Sample Quantity:

4.5 L

Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

16/03/2024 23/03/2024 GGMPL/WI/27A

14/03/2024

16/03/2024

n-	-1-	ina	1.0	

Sealed

.No	Parameters Parameters	Results	Unit	Test Method	Norm
1	pH at 25 ℃	7.31	250	IS 3025- Part 11	
2	Total Suspended Solids	25.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd-Edn 5220 B	
5	Dissolved Oxygen	4.6	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	20	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

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

Analyzed By Jadav Vishal

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/02

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2631C/06B/V4/02

Waste Water

4.5 L

Laboratory Representative

Waste water of STP Outlet

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

14/03/2024 16/03/2024

> 16/03/2024 23/03/2024

GGMPL/WI/27A

Sealed

Parameters	Results	Unit	Test Method	Norm
pH at 25 °C	7.18	. ₹0	IS 3025- Part 11	NS
Total Suspended Solids	33.00	mg/L	APHA 23rd Edn 2540 D	100
Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	NS
Dissolved Oxygen	5.0	mg/L	IS 3025- Part 38	NS
BOD at 27 o C for 3 days	19	mg/L	IS 3025- Part 44	30
Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS
	pH at 25 °C Total Suspended Solids Oil and Grease Chemical Oxygen Demand Dissolved Oxygen BOD at 27 o C for 3 days	pH at 25 °C 7.18 Total Suspended Solids 33.00 Oil and Grease BQL (QL=2) Chemical Oxygen Demand 60.00 Dissolved Oxygen 5.0 BOD at 27 o C for 3 days 19	pH at 25 °C 7.18 - Total Suspended Solids 33.00 mg/L Oil and Grease BQL (QL=2) mg/L Chemical Oxygen Demand 60.00 mg/L Dissolved Oxygen 5.0 mg/L BOD at 27 o C for 3 days 19 mg/L	pH at 25 °C 7.18 - IS 3025- Part 11 Total Suspended Solids 33.00 mg/L APHA 23rd Edn 2540 D Oil and Grease BQL (QL=2) mg/L IS 3025- Part 39 Chemical Oxygen Demand 60.00 mg/L APHA 23rd Edn 5220 B Dissolved Oxygen 5.0 mg/L IS 3025- Part 38 BOD at 27 o C for 3 days 19 mg/L IS 3025- Part 44

Norms As Per CCA.

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

Analyzed By Jadav Vishal

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/03

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2631C/06B/V4/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description: Sample Quantity:

ETP Outlet(WW)

Sample Condition:

4.5 L Satisfactory Sampling Date:

14/03/2024

Sample Receipt Date:

16/03/2024

Analysis Start Date: Analysis End Date:

16/03/2024

Sampling Method:

23/03/2024 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.44	¥	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	BQL (QL=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	90.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.8	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	28	mg/L	IS 3025- Part 44	30
7	Manganese	0.174	mg/L	GGMPL/SOP/W & WW/46	NS

Norms As Per CCA.

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

Viva Analyzed By Jadav Vishal

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/2631C/06B/V4/04

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/2631C/06B/V4/04 Laboratory Representative

Ground Water

Vertical Shaft II Open Dugwell (GW)

4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: Packing:

14/03/2024

16/03/2024 16/03/2024 23/03/2024

GGMPL/WI/27A Sealed

Consideration

					5	pecification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	284.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	45.69	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	62.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.34	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	20.90	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.20		IS 3025- Part 11	6.5 to 8.5	No
9	Sulphate	24.78	mg/L	APHA 23rd Edn 4500 SO4 E		Relaxation 400
10	Total Dissolved Solids (TDS)	360.00	mg/L	APHA 23rd Edn 2540 C		2000
11	Total Suspended Solids (TSS)	5.00	mg/L	APHA 23rd Edn 2540 D		NS
12	Total Hardness as CaCO3	200.00	mg/L	APHA 23rd Edn 2340 C		600

AL & PL As Per IS 10500.

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

Analyzed By Jadav Vishal HMEDAB!

Authorized Signatory Manish Kumawat

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/04

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2631C/06B/V4/04

Laboratory Representative

Ground Water

Vertical Shaft II Open Dugwell (GW)

Sample Description: Sample Quantity: Sample Condition:

Sample Drawn By:

Sample Type:

4.5 L

Satisfactory

Sampling Date:

14/03/2024 16/03/2024

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

16/03/2024 23/03/2024

Sampling Method:

GGMPL/WI/27A Sealed

Packing:

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	0.185	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.50	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

Analyzed By Jadav Vishal of Repor

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2634C/06B/V4/01

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 21/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Condition:

Sample Description:

Sample Quantity:

300 ml Satisfactory

Water

Lab/PN/2634C/06B/V4/01

Laboratory Representative

GW Vertical Shaft-II Open Dugwell

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Sampling Method:

Analysis End Date:

Packing:

14/03/2024

16/03/2024 18/03/2024

21/03/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	A1	DI .
1 Total o	oliform	Absent	Present or	APHA 9222 A&B 24th Edition 2021	AL Absent	PL Absent
2 E.coli		Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

Authorized Signatory Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/05

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2631C/06B/V4/05

Laboratory Representative

Ambient Air

Near Vertical shaff- II Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

14/03/2024

15/03/2024 16/03/2024

16/03/2024-23/03/2024

24

25 ± 5 °C

r.No	Parameters Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.41	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.02	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.30	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.53	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)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
1	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 Jadav Vishal

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/05

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2631C/06B/V4/05

Laboratory Representative

Ambient Air

Near Vertical shaff- II Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

15/03/2024 16/03/2024

14/03/2024

16/03/2024-23/03/2024

24

Env. Cond.-Testing: 25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Temper	ature	32	°C	GGMPL/SOP/MP/01	NS
13 Relative	Humidity	60	%	GGMPL/SOP/MP/01	NS
14 Rainfall		0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 Lead		BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16 Wind Sp	eed	5.52	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jadav Vishal

End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/06

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling:

Lab/PN/2631C/06B/V4/06 Laboratory Representative

Ambient Air Near Substation

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: 15/03/2024 Sample Receipt Date: 16/03/2024 Analysis start- End Date:

Total Sampling hours:

16/03/2024-23/03/2024

Env. Cond.-Testing:

25 ± 5 °C

14/03/2024

Env.	CondSample Receipt:	

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.98	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.68	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.97	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.46	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.80	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

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

Analyzed By Jadav Vishal

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/06

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



TC-7073

SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2631C/06B/V4/06 Laboratory Representative

Ambient Air Near Substation Ambient Temperature Satisfactory Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing: 14/03/2024 15/03/2024 16/03/2024

16/03/2024-23/03/2024

24 25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Tempe	rature	32	°C	GGMPL/SOP/MP/01	NS
13 Relative	Humidity	59	%	GGMPL/SOP/MP/01	NS
14 Rainfall		0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 Lead		BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 Wind S	peed	5.52	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jadav Vishal Quantification Mamile Line AHMEDABAD Cond of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/07

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2631C/06B/V4/07 Laboratory Representative

Ambient Air

Near Admin Building Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

14/03/2024

15/03/2024 16/03/2024

16/03/2024-23/03/2024

 25 ± 5 °C

ir.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.66	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)	10.71	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.78	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.22	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	15.81	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

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

Analyzed By Jaday Vishal

Authorized Signatory Manish Kumawat

Page No: 1/2

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HMEDABAD



Dayal Estate, National Highway No.8, Opp APMC Market Gate-1, Jetalpur, District-Ahmedabad-382426

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/07

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2631C/06B/V4/07 Laboratory Representative Ambient Air

Near Admin Building Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

15/03/2024 16/03/2024

14/03/2024

16/03/2024-23/03/2024

Env. Cond.-Testing: 25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	5.52	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Jadav Vishal

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/08

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2631C/06B/V4/08

Laboratory Representative

Near Weigh Bridge

Satisfactory

Sampling End Date: Ambient Air

Ambient Temperature

Sampling Start Date:

Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

15/03/2024 16/03/2024

14/03/2024

16/03/2024-23/03/2024

24

25 ± 5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	75.43	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.40	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.11	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.77	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.37	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)	1.31	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 Jadav Vishal

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/08

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist, Balaghat (M.P)

Reporting Date: 25/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2631C/06B/V4/08 Laboratory Representative

Ambient Air

Near Weigh Bridge Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

15/03/2024 16/03/2024

14/03/2024

16/03/2024-23/03/2024

ours: 24

Env. Cond.-Testing: 25 ± 5 °C

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	31	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	58	%	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	5.52	m/s	GGMPL/SOP/MP/01:2020	NS
		Temperature 31 Relative Humidity 58 Rainfall 0.0 Lead BQL (QL=0.001)	Temperature 31 °C Relative Humidity 58 % Rainfall 0.0 mm Lead BQL (QL=0.001) μg/m3	Temperature 31 °C GGMPL/SOP/MP/01 Relative Humidity 58 % 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 Lim

Analyzed By Jadav Vishal AHMEDABAD

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2631C/06B/V4/09

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site Dist. Balaghat (M.P)

Reporting Date: 25/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

14/03/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2631C/0 6B/V4/09/A	Near Vertical Shaft -II	Day Time	dB(A)Leq	IS 4758	69.1	
2	Lab/PN/2631C/0 6B/V4/09/B	Compressor House- II	Day Time	dB(A)Leq	IS 4758	71.6	
3	Lab/PN/2631C/0 6B/V4/09/C	Near Jack Hammer Drill (1650 Level)	Day Time	dB(A)Leq	IS 4758	73.4	
4	Lab/PN/2631C/0 6B/V4/09/D	Dumper Loaded at Workshop	Day Time	dB(A)Leq	IS 4758	71.4	-
5	Lab/PN/2631C/0 6B/V4/09/A	Near Vertical Shaft -II	Night Time	dB(A)Leq	IS 4758	61.2	
6	Lab/PN/2631C/0 6B/V4/09/B	Compressor House- II	Night Time	dB(A)Leq	IS 4758	62.4	2
7	Lab/PN/2631C/0 6B/V4/09/C	Near Jack Hammer Drill (1650 Level)	Night Time	dB(A)Leq	IS 4758	65.4	
8	Lab/PN/2631C/0 6B/V4/09/D	Dumper Loaded at Workshop	Night Time	dB(A)Leq	IS 4758	62.6	-

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

Analyzed By Jadav Vishal

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/2632C/06C/V4/01

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2632C/06C/V4/01

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Waste Water Near Mine seapage vertical Shaft-2

Sample Quantity: Sample Condition:

4.5 L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

26/03/2024 GGMPL/WI/27A

Packing:

Sealed

14/03/2024

16/03/2024

16/03/2024

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.52	-	IS 3025- Part 11	-
2	Total Suspended Solids	24.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	_
4	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	5.66	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	15	mg/L	IS 3025- Part 44	
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	

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

Analyzed By Priyanka Shrimali

End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/02

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2632C/06C/V4/02

Sample Drawn By: Sample Type:

Laboratory Representative

Ground Water

Sample Description: Sample Quantity:

Chindi Tola Village Open Dugwell (GW)

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

26/03/2024 GGMPL/WI/27A

14/03/2024

16/03/2024

16/03/2024

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	134.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	32.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	15.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.25	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	13.60	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	75	Agreeable
8	pH at 25 °C	7.53		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	25.36	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	186.00	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	136.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Priyanka Shrimali



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/02

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/2632C/06C/V4/02 Laboratory Representative

Ground Water

Sample Description: Sample Quantity:

Sample Condition:

Chindi Tola Village Open Dugwell (GW)

Satisfactory

14/03/2024 Sampling Date:

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

Sampling Method:

16/03/2024 16/03/2024 26/03/2024 GGMPL/WI/27A

Sealed

Packing:

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	1.25	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

--- End of Report --

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2635C/06C/V4/01

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 21/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2635C/06C/V4/01

Laboratory Representative

Sample Drawn By: Sample Type:

Water

Sample Description:

GW Chindi Tola Village Open Dugwell

Sample Quantity:

300 ml

Sample Condition:

Satisfactory

Sampling Date:

14/03/2024

Sample Receipt Date:

16/03/2024 18/03/2024

Analysis Start Date: Analysis End Date:

21/03/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100	APHA 9222 A&B 24th Edition 2021	Absent	Absent
			ml Present or			
2	E.coli	Absent	Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent
			mi			

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

AHMEDABAD

End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/03

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2632C/06C/V4/03

Sample Drawn By: Sample Type: Laboratory Representative

Ground Water

Sample Description:

Dugwell near pit office (GW)

Sample Quantity: Sample Condition:

4.5 L Satisfactory Sampling Date:

14/03/2024

Sample Receipt Date:

16/03/2024

Analysis Start Date: Analysis End Date: 16/03/2024 26/03/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	86.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	22.04	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	25.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.20	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	15.79	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.45		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	35.27	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	182.00	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 Priyanka Shrimali



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/03

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Laboratory Representative Ground Water

Lab/PN/2632C/06C/V4/03

Sample Description:

Dugwell near pit office (GW)

Sample Quantity: Sample Condition: 4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

GGMPL/WI/27A Sealed

14/03/2024

16/03/2024

16/03/2024

26/03/2024

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	1.20	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali End of Repo

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2635C/06C/V4/02

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 21/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2635C/06C/V4/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

GW Dugwell Near Pit Office

Sample Quantity:

300 ml

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

GGMPL/WI/27A

14/03/2024

16/03/2024

18/03/2024

21/03/2024

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total o	coliform	Absent	The same of the sa	APHA 9222 A&B 24th Edition 2021	Absent	Absent
			ml Present or			
2 E.coli		Absent	Absent/100	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

Ford of Report --

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/04

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2632C/06C/V4/04 Laboratory Representative

Ground Water

Dugwell near pit Haul Road 2

4.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

14/03/2024 16/03/2024

16/03/2024 26/03/2024 GGMPL/WI/27A

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	108.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	29.65	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	19.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.20	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	18.46	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-:	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.60		IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	15.85	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	176.00	mg/L	APHA 23rd Edn 2540 C	500	20
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	150.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

nalyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/04

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2632C/06C/V4/04

Laboratory Representative

Sample Drawn By: Sample Type:

Ground Water

Sample Description: Sample Quantity:

Dugwell near pit Haul Road 2

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

14/03/2024

Sample Receipt Date: Analysis Start Date:

16/03/2024 16/03/2024

Analysis End Date: Sampling Method:

26/03/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.04	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

Priyanka Shrimali

End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2635C/06C/V4/03

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 21/03/2024

TC-7073

16/03/2024

18/03/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: 300 ml

Lab/PN/2635C/06C/V4/03

Laboratory Representative Water

GW Dugwell Near Haul Road-II

Satisfactory

Sampling Date: 14/03/2024

Sample Receipt Date: Analysis Start Date:

21/03/2024 Analysis End Date: GGMPL/WI/27A Sampling Method:

Packing: Sealed

Specification:

Results Unit Test Method	AL PL
Present or Absent Absent/100 APHA 9222 A ml Present or	Edition 2021 Absent Absent
Absent Absent/100 APHA 922H 2	on 2021 Absent Absent
Absent Absent/100 APHA 922H 2	n 2021 Absent

AL & PL As Per IS 10500.

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

Nidhi Shah

End of Report --

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2632C/06C/V4/05 Laboratory Representative

Ambient Air

Satisfactory

Near Chindi tola Village Ambient Temperature

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

Analysis start- End Date: Total Sampling hours:

15/03/2024 16/03/2024

14/03/2024

16/03/2024-26/03/2024 24

Env. Cond.-Testing: 25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.30	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.82	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.13	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.48	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	19.19	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.92	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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Report Number: GGMPL/PN/2632C/06C/V4/05

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2632C/06C/V4/05 Laboratory Representative

Ambient Air

Near Chindi tola Village Ambient Temperature Satisfactory

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

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

16/03/2024-26/03/2024

25±5°C

14/03/2024

15/03/2024

16/03/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

nalyzed By Priyanka Shrimali

End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/06

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2632C/06C/V4/06

Laboratory Representative

Ambient Air Near Haul Road

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

14/03/2024 15/03/2024

16/03/2024

16/03/2024-26/03/2024

25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.63	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.91	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.55	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.03	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.93	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)	1.07	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

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/06

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

14/03/2024

15/03/2024

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2632C/06C/V4/06 Laboratory Representative Ambient Air Near Haul Road Ambient Temperature Satisfactory

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

16/03/2024 16/03/2024-26/03/2024 Total Sampling hours: 25±5°C Env. Cond.-Testing:

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

AHMEDABAD

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/07

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2632C/06C/V4/07 Laboratory Representative

Ambient Air

Near Explosive Magazine Ambient Temperature

Satisfactory

Sampling Start Date: 14/03/2024 Sampling End Date: 15/03/2024 Sample Receipt Date: 16/03/2024

Analysis start- End Date:

16/03/2024-26/03/2024

Total Sampling hours: Env. Cond.-Testing:

25±5°C

24

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.54	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.57	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)	23.91	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.62	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.77	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/07

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2632C/06C/V4/07 Laboratory Representative

Ambient Air

Near Explosive Magazine Ambient Temperature

Satisfactory

Sampling Start Date: 14/03 Sampling End Date: 15/03

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 14/03/2024 15/03/2024 16/03/2024

16/03/2024-26/03/2024

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	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	Ns
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.5	m/s	GGMPL/SOP/MP/01:2020	Ns

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

Analyzed By Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/08

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2632C/06C/V4/08 Laboratory Representative Ambient Air

Near New Mine Colony Ambient Temperature Satisfactory

 Sampling Start Date:
 14/03/2024

 Sampling End Date:
 15/03/2024

 Sample Receipt Date:
 16/03/2024

 Analysis start- End Date:
 16/03/2024-26/03/2024

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

24

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.86	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)	15.81	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.89	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.25	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)	1.06	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

Analyzed By Priyanka Shrimali H (AHMEDABAD)

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/08

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2632C/06C/V4/08

Laboratory Representative

Ambient Air

Near New Mine Colony Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

14/03/2024 15/03/2024

16/03/2024

16/03/2024-26/03/2024

24

25±5°C

arameters	Results	Unit	Test Method	NAAQ Standards
	30	°C	GGMPL/SOP/MP/01	NS
	58	%	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
	6.5	m/s	GGMPL/SOP/MP/01:2020	NS
-	arameters	30 58 0.0 BQL (QL=0.001)	30 °C 58 % 0.0 mm BQL (QL=0.001) μg/m3	30 °C GGMPL/SOP/MP/01 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

Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/09

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site Dist. Balaghat (M.P)

Reporting Date: 27/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

14/03/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2632C/0 6C/V4/09A	Near Chindi Tola Village	Day Time	dB(A)Leq	IS 4758	67.1	-
2	Lab/PN/2632C/0 6C/V4/09B	Near pit office -2 vertical shaft	Day Time	dB(A)Leq	IS 4758	68.9	-
3	Lab/PN/2632C/0 6C/V4/09C	Near vertical fan	Day Time	dB(A)Leq	IS 4758	70.3	_
4	Lab/PN/2632C/0 6C/V4/09D	Near haul road	Day Time	dB(A)Leq	IS 4758	68.8	
5	Lab/PN/2632C/0 6C/V4/09A	Near Chindi Tola Village	Night Time	dB(A)Leq	IS 4758	59.1	
6	Lab/PN/2632C/0 6C/V4/09B	Near pit office -2 vertical shaft	Night Time	dB(A)Leq	IS 4758	61.0	-
7	Lab/PN/2632C/0 6C/V4/09C	Near vertical fan	Night Time	dB(A)Leq	IS 4758	62.4	
8	Lab/PN/2632C/0 6C/V4/09D	Near haul road	Night Time	dB(A)Leq	IS 4758	61.7	-

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

Analyzed By Priyanka Shrimali

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Page No: 1/1

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