

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/2358D/06A/01

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2358D/06A/01

Laboratory Representative Ambient Air Near Nagra Plant

Ambient Temperature

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

20/10/2024

21/10/2024 22/10/2024

23/10/2024-29/10/2024

Satisfactory Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.34	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)	14.89	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.86	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)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor

Authorized Signatory Payal Patel

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M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

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

Lab/PN/2358D/06A/01 Laboratory Representative

Ambient Air Near Nagra Plant Ambient Temperature

Satisfactory

Sampling Start Date: 20/10/2024 Sampling End Date: 21/10/2024 Sample Receipt Date: 22/10/2024

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

23/10/2024-29/10/2024

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	9/6	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	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Analyzed By Kinjal Damor End of Reports

Authorized Signatory Payal Patel

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Report Number: GGMPL/PN/2358D/06A/02

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2358D/06A/02 Laboratory Representative Ambient Air

Near vertical Shaft 1

Ambient Temperature Satisfactory

Sampling Start Date: 20/10/2024 Sampling End Date: 21/10/2024 Sample Receipt Date: 22/10/2024

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 25±5°C

23/10/2024-29/10/2024

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.68	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)	13.27	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.43	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.54	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.11	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	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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M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2358D/06A/02

Laboratory Representative Ambient Air

Near vertical Shaft 1 Ambient Temperature

Satisfactory

Sampling Start Date: 20/10/2024 Sampling End Date: 21/10/2024

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 23/10/2024-29/10/2024

24 25±5°C

22/10/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor AIIMEDABAD V

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/03

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

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

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

Lab/PN/2358D/06A/03 Laboratory Representative Ambient Air

Near Workshop Ambient Temperature

Satisfactory

Sampling Start Date: 20/10/2024 Sampling End Date: 21/10/2024 Sample Receipt Date: 22/10/2024

Analysis start- End Date:

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

25/10/2024-29/10/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	75.03	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)	12.57	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.56	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.98	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.55	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)	0.87	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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Ukwa Manganese Mines L1=199.067 Ha Site Dist. Balaghat (M.P)

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2358D/06A/03

Laboratory Representative

Ambient Air Near Workshop

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-lesting:

20/10/2024

21/10/2024 22/10/2024

25/10/2024-29/10/2024

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	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor Authorized Signatory Payal Patel

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

Reporting Date: 29/10/2024



20/10/2024

21/10/2024

22/10/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

E

Lab/PN/2358D/06A/04

Laboratory Representative Ambient Air

Near Ukwa Village

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

Analysis start- End Date:

23/10/2024-29/10/2024

Env. CondSampling:	Ambient Temperature	Total Sampling hours:	24
Env. CondSample Receipt:	Satisfactory	Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	76.81	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)	16.48	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.33	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.92	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.96	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)	1.12	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

Payal Patel

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Reporting Date: 29/10/2024



SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2358D/06A/04 Laboratory Representative

Ambient Air Near Ukwa Village Ambient Temperature

Satisfactory

Sampling Start Date: 20/10/2024 Sampling End Date: 21/10/2024 Sample Receipt Date: 22/10/2024

Analysis start- End Date: 23/10/2024-29/10/2024
Total Sampling hours: 24
Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°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	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Analyzed By Kinjal Damor AHMEDABAD C

Authorized Signatory Payal Patel

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/05

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

20/10/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2358D/0 6A/05A	Near Nagra Plant	Day Time	dB(A)Leq	IS 4758	65.4	ш
2	Lab/PN/2358D/0 6A/05B	Near Vertical Shaft-I	Day Time	dB(A)Leq	IS 4758	64.3	-
3	Lab/PN/2358D/0 6A/05C	Near Workshop	Day Time	db(A)Leq	IS 4758	62.7	4. 5.
4	Lab/PN/2358D/0 6A/05D	Near Ukwa Village	Day Time	db(A)Leq	IS 4758	52.1	-

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

Analyzed By Kinjal Damor



Authorized Signatory Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/06

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2358D/06A/06

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description: Sample Quantity:

D.W Mine Office

3 L

Sample Condition:

Satisfactory

Sampling Date:

21/10/2024 Sample Receipt Date:

22/10/2024

Analysis Start Date: Analysis End Date:

23/10/2024 29/10/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	42.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.49	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.34	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	e Agreeabl
8	pH at 25 °C	7.86	FLE T	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	26.98	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	206.00	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	149.00	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 Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/06

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2358D/06A/06

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

D.W Mine Office

31

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

21/10/2024

Sample Receipt Date: Analysis Start Date:

22/10/2024 23/10/2024

Analysis End Date:

29/10/2024

Sampling Mothod:

GGMPL/WI/Z/A

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	3.42	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

Kinjal Damor



Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/07

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2358D/06A/07

Sampling Date:

21/10/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

22/10/2024

Sample Type:

Ground Water

Analysis Start Date:

23/10/2024 29/10/2024

Sample Description:

New Mine Colony Pump House (GW)

Analysis End Date:

GGMPL/WI/27A

Sample Quantity:

Catiofasta

3 L

Sampling Method:

Spalad

Sample	e Condition: Satisfact	tory		Packing:	Sealed	
						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	133.00	mg/L	APHA 23rd Edn 2320 E	3 200	600
2	Calcium as Ca	51.30	mg/L	APHA 23rd Edn 3500 (Ca B 75	200
3	Chloride	59.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.39	mg/L	APHA 23rd Edn 4500 F	D 1.0	1.5
6	Magnesium as Mg	9.96	mg/L	APHA 23rd Edn 3500 N	Mg B 30	100
7	Odour	Agreeable		IS 3025- Part 5	Agree	eable Agreeable
8	pH at 25 °C	7.85		IS 3025- Part 11	6.5-8	.5 No relaxation
9	Sulphate	55.55	mg/L	APHA 23rd Edn 4500 S	504 E 200	400
10	Total Dissolved Solids (TDS)	306.00	mg/L	APHA 23rd Edn 2540 0	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 [) NS	NS

Al & PL As Per IS 10500

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

Analyzed By Kinjal Damor AHMEDABAD CONTRACTOR AND CONTRACTOR

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/07

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2358D/06A/07

Laboratory Representative

Sample Type: Sample Description:

Sample Drawn By:

Ground Water

New Mine Colony Pump House (GW)

Sample Quantity: Sample Condition: 3 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

29/10/2024 GGMPL/WI/27A

21/10/2024

22/10/2024

23/10/2024

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	169.00	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	4.85	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

Al & PL As Per IS 10500

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

Analyzed By Kinjal Damor

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/08

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2358D/06A/08

Sampling Date: 21/10/2024

Sample Drawn By:

Laboratory Representative

22/10/2024

Sample Type:

Ground Water

Sample Receipt Date: Analysis Start Date: 23/10/2024 Analysis End Date:

Sample Description:

D.W officer Colony No-4

Satisfactory

29/10/2024

Sample Quantity: Sample Condition: 3 L

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	156.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	48.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.42	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.84	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	e Agreeabl
8	pH at 25 °C	7.63		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.67	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	317.00	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	196.00	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



Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/08

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2358D/06A/08

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description: Sample Quantity: D.W officer Colony No-4

3 L

Sample Condition:

Satisfactory

Sampling Date:

21/10/2024

Sample Receipt Date: Analysis Start Date: 22/10/2024 23/10/2024

Analysis End Date: Sampling Method: 29/10/2024 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	1.66	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 AHMEDABAB TO SEPORT ---

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/09

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2358D/06A/09

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Ground Water Rest House D.W.

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

21/10/2024 22/10/2024

23/10/2024 29/10/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	96.00	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	32.49	mg/L	15 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.31	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	11.42	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	e Agreeabl
8	pH at 25 °C	7.69	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.39	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	190.00	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	112.00	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

Authorized Signatory Payal Patel

Page No: 1/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2358D/06A/09

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2358D/06A/09

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Rest House D.W.

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing: 21/10/2024

22/10/2024 23/10/2024

29/10/2024 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 AHMEDABAD PV

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2364D/06A/01

M/s Moil Limited

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

Reporting Date: 28/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2364D/06A/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Mine office D.W.

Sample Quantity: Sample Condition: 500 ml Satisfactory Sampling Date:

21/10/2024

Sample Receipt Date: Analysis Start Date: 22/10/2024 22/10/2024

Analysis End Date:

28/10/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS10500

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

Analyzed By Komal Yaday

--- End of Report ---

Authorized Signatory
Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2364D/06A/02

M/s Moil Limited

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

Reporting Date: 28/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2364D/06A/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

New Mine colony pump house G.W.

Sample Quantity: Sample Condition: 500 ml Satisfactory Sampling Date:

21/10/2024

Sample Receipt Date: Analysis Start Date: 22/10/2024 22/10/2024

Analysis End Date:

28/10/2024

Sampling Method: Packing:

GGMPL/WI/27A

ring: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absont	per 100ml	ΛΡΗΛ 0221B 24th Edition 2021	Absent	Abaent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS10500

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

Analyzed By Komal Yaday

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Authorized Signatory
Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2364D/06A/03

M/s Moil Limited

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

Reporting Date: 28/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2364D/06A/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Mator

Sample Description:

Officer Colony No.4 (D.W)

Sample Quantity:

500 ML

Sample Condition:

Satisfactory

Sampling Date:

21/10/2024

Sample Receipt Date:

22/10/2024

Analysis Start Date:

22/10/2024

Analysis End Date: Sampling Method: 28/10/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

	Parameters	Results	Unit	Test Method	AL	PL
1 T	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2 E	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL as per IS10500

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

Analyzed By Komal Yaday AHMEDABAD VI

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2364D/06A/04

M/s Moil Limited

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

Reporting Date: 28/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2364D/06A/04

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Rest House (D.W)

Sample Quantity: Sample Condition:

500 ML Satisfactory Sampling Date:

21/10/2024

Sample Receipt Date:

22/10/2024 22/10/2024

Analysis Start Date: Analysis End Date:

28/10/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS10500

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/2359D/06B/01

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2359D/06B/01

Laboratory Representative

Ambient Air

Near Vertical shaff- II Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: 21/10/2024 Sample Receipt Date: 22/10/2024

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

22/10/2024-28/10/2024

25±5°C

20/10/2024

ir.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.16	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)	9.20	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.37	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.23	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.52	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BOL (OL=2.5)	ua/m3	IS 5182- Part 11	5
0	Denzo(a) pyrene	DQL (QL-0.5)	ng/m3	Is 5182* Pail 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 Manoj Kumar

Authorized Signatory Payal Patel

Page No: 1/2



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/01

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2359D/06B/01 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:

20/10/2024 21/10/2024 22/10/2024

22/10/2024-28/10/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31.85	°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	0.83	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Manoj Kumar

End of Report

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/02

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

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

Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2359D/06B/02

Laboratory Representative Ambient Air Near Substation Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing: 22/10/2024 22/10/2024-28/10/2024

24 25±5°C

20/10/2024

21/10/2024

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.40	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.58	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.33	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.13	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.40	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.73	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

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

Analyzed By Manoj Kumar AHMEDABAD PV

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/02

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2359D/06B/02

Laboratory Representative

Ambient Air Near Substation

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

20/10/2024

21/10/2024 22/10/2024

22/10/2024-28/10/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32.85	°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	1.11	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Manoj Kumar

End of Report

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/03

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2359D/06B/03 Laboratory Representative

Ambient Air Near Admin Building Ambient Temperature

Satisfactory

Sampling Start Date: 20/10/2024 Sampling End Date: 21/10/2024 Sample Receipt Date: 22/10/2024

Analysis start- End Date: 22/10/2024-28/10/2024 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.34	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.76	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.53	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.31	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.16	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 Manoj Kumar

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/03

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2359D/06B/03 Laboratory Representative

Ambient Air

Near Admin Building Ambient Temperature

Satisfactory

Sampling Start Date: 20/10/2024 Sampling End Date: 21/10/2024 Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

22/10/2024 22/10/2024-28/10/2024

25+5°C

Sr Nn	Parameters	Results	Unit	Test Method	NAVQ Standardo
12	Temperature	31.85	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	96	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	1.38	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Manoj Kumar HAA

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/04

M/s Moil Limited

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

Reporting Date: 29/10/2024



22/10/2024-28/10/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2359D/06B/04

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:

Env. Cond.-Testing:

25±5°C

20/10/2024

22/10/2024

22/10/2024

		Results	Unit	Test Method	NAAQ Standards
sr.No	Parameters		12	IS 5182- Part 23	100
1	Particulate Matter (PM10)	71.38	µg/m3		60
2	Particulate Matter (PM2.5)	38.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
	Sulphur Dioxide (SO2)	15.34	μg/m3	IS 5182-Part 2	80
3	Nitrogen Dioxide (NO2)	19.13	µg/m3	IS 5182- Part 6	80
4		12.23	µg/m3	IS 5182- Part 9	180
5	Ozone (O3) Ammonia (NH3)	10.95	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
8	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4
9		BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
10	Nickel as Ni Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Manoj Kumar

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/04

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-707

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2359D/06B/04

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: Env. Cond.-Testing: 22/10/2024 22/10/2024

20/10/2024

22/10/2024-28/10/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAO Standards
12	Temperature	32.85	°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)	ру/ш3	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 Manoj Kumar

End of Report --

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/05

M/s Moil Limited

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

Reporting Date: 22/11/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

21/10/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2359D/0 6B/09A	Near Vertical Shaft-II	Day Time	dB(A)Leq	IS 4758	64.4	
2	Lab/PN/2359D/0 6B/09B	Compressor House-II	Day Time	dB(A)Leq	IS 4758	65.7	
3	Lab/PN/2359D/0 6B/09C	Near Jack Hammer Drill (1650 Level)	Day Time	dB(A)Leq	IS 4758	65.4	
4	Lab/PN/2359D/0 6B/09D	Dumper Loaded at Workshop	Day Time	dB(A)Leq	IS 4758	62.1	2

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

Analyzed By Manoj Kumar End of Repo

Authorized Signatory Payal Patel

Page No: 1/1



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/06

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2359D/06B/06

Sample Drawn By:

Laboratory Representative

Ground Water

Sample Type: Sample Description:

Vertical Shaft II Open Dugwell

3 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

:

Analysis Start Date:

22/10/2024 22/10/2024

21/10/2024

Analysis End Date: Sampling Method: 28/10/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	278.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	49.98	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	22.11	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	e Agreeab
8	pH at 25 °C	7.42		IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	21.03	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	346.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	198.00	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 Manoj Kumar AHMEDABAD P

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/06

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2359D/06B/06

Sampling Date: Sample Receipt Date: 21/10/2024

Sample Drawn By: Sample Type:

Laboratory Representative Ground Water

Analysis Start Date:

22/10/2024 22/10/2024

Sample Description:

Vertical Shaft II Open Dugwell

Analysis End Date:

28/10/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Sampling Method:

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	0.138	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.32	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

Manoj Kumar

CHAN

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/07

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2359D/06B/07

Sample Drawn By:

Laboratory Representative

Waste Water

Sample Type: Sample Description:

Mine Seapage Water (WW)

5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

21/10/2024

Sample Receipt Date: Analysis Start Date:

22/10/2024 22/10/2024

Analysis End Date:

Sampling Method:

28/10/2024 GGMPL/WI/27A

Packing:

Sealed

ir.No	Parameters	Results	Unit	Test Method	Norm
1	pH al 25 °C	7.35	4	IS 3025- Part 11	The state of the s
2	Total Suspended Solids	33.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	Æ
4	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	4
5	Dissolved Oxygen	5.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	13.64	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

Manoj Kumar

Authorized Signatory Payal Patel

Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/08

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2359D/06B/08

Sampling Date:

21/10/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

22/10/2024

Sample Type:

Waste Water STP Outlet Analysis Start Date: 22/

22/10/2024

Sample Description: Sample Quantity:

5 L

Analysis End Date: Sampling Method: 28/10/2024 GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.31	-	IS 3025- Part 11	-
2	Total Suspended Solids	23.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	•
4	Chemical Oxygen Demand	50.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	5.20	mg/L	IS 3025- Part 38	•
6	BOD at 27 o C for 3 days	17.27	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

Norms as Per CCA

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

Analyzed By Manoj Kumar AHMEDABAD PV

Authorized Signatory Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2359D/06B/09

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2359D/06B/09

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description: Sample Quantity: Sample Condition:

ETP Outlet 4.5 L

Satisfactory

Sampling Date:

21/10/2024 22/10/2024 Sample Receipt Date:

Analysis Start Date: Analysis End Date:

28/10/2024

Sampling Method:

GGMPL/WI/27A

22/10/2024

Packing:

Sealed

		Results	Unit	Test Method	Norm
1	pH at 25 °C	7.34	2	IS 3025- Part 11	5.5 to 9
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	60.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.00	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	19.33	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

Norms as Per CTO

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

End of Repo

Payal Patel

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2365D/06B/01

M/s Moil Limited

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

Reporting Date: 28/10/2024

SAMPLE DETAILS

Sample Drawn By:

Sample Quantity:

Sample Condition:

Sample Type: Sample Description:

Lab ID:

Lab/PN/2365D/06B/01

Ground Water

500 MI

Satisfactory

Laboratory Representative

Vertical shaff-II Open Dug well (GW)

Sample Receipt Date: Analysis Start Date:

Sampling Date:

22/10/2024 22/10/2024

Analysis End Date: Sampling Method:

28/10/2024 GGMPI /WT/27A

21/10/2024

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 IS10500

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

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/2360D/06C/01

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2360D/06C/01 Laboratory Representative

Ambient Air

Near Chindhi tola village 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: 20/10/2024 21/10/2024 22/10/2024

23/10/2024-29/10/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	73.84	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)	15.43	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.72	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.23	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	10.95	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 Kinjal Damor AHMEDASAD POLICY OF COOR AND A CO

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/01

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2360D/06C/01

Laboratory Representative

Ambient Air

Near Chindhi tola village Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 20/10/2024 21/10/2024 22/10/2024

23/10/2024-29/10/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor AHMERI AF REPORT

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/02

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7072

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2360D/06C/02

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: 20/10/2024 21/10/2024 22/10/2024

23/10/2024-29/10/2024

24 25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	76.10	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)	15.67	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.86	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.67	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)	1.05682	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 AHMEDABAD A AHMEDABAD

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/02

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2360D/06C/02

Laboratory Representative

Ambient Air Near Haul Road

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Total Sampling hours:

Analysis start- End Date:

Env. Cond.-Testing:

22/10/2024

23/10/2024-29/10/2024

25±5°C

20/10/2024

21/10/2024

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	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/03

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2360D/06C/03

Laboratory Representative

Ambient Air

Near Explosive Magzine Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

20/10/2024

21/10/2024 22/10/2024

23/10/2024-29/10/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.63	µq/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	μg/m3	GGMPL/SOP/AA/60 ILLUU NU.02 August 01	60
3	Sulphur Dioxide (SO2)	14.49	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.86	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.67	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	18.25	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

na/m3

ng/m3

USEPA Method IO 3.4

USEPA Method IO 3.4

BQL (QL=5)

BQL (QL=1)

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

Analyzed By Kinjal Damor

Authorized Signatory Payal Patel

Page No: 1/2

20

6

10

11

Nickel as Ni

Arsenic as As

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/03

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

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

Lab/PN/2360D/06C/03 Laboratory Representative

Ambient Air

Near Explosive Magzine Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 20/10/2024 21/10/2024 22/10/2024

23/10/2024-29/10/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°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)	µq/m3	USEPA Method IO 3.4	1
16	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor ECHANISTA STATEMENT OF A STATEMENT O

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/04

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2360D/06C/04 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:

20/10/2024 21/10/2024 22/10/2024

22/10/2024-29/10/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.42	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.97	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.72	μg/m3	IS 5182- Part 6	80
5	Ozurie (O3)	12.23	μġ/m³	15 5182- Pārt 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)	1.06	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 Kinjal Damor

Authorized Signatory Payal Patel

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/04

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2360D/06C/04

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: 21/10/2024 22/10/2024

20/10/2024

22/10/2024-29/10/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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	5	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 Co

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/05

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

20/10/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2360D/0 6C/05A	Near Chindi Tola Village	Day Time	dB(A)Leq	IS 4758	52.4	4
2	Lab/PN/2360D/0 6C/05B	Near Pit Office 2 vertical Shaft	Day Time	dB(A)Leq	IS 4758	59.2	-
3	Lab/PN/2360D/0 6C/05C	Near Vertical Fan	Day Time	db(A)Leq	IS 4758	62.4	
4	Lab/PN/2360D/0 6C/05D	Haul Road	Day Time	db(A)Leq	IS 4758	54.1	

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/2360D/06C/06

M/s Moil Limited

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

Reporting Date: 29/10/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2360D/06C/06

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Chindhi tola village open dugwell (GW)

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

ot Date:

Analysis Start Date: Analysis End Date: Sampling Method:

APHA 23rd Edn 2340 C

29/10/2024 GGMPL/WI/27A

Packing:

Sealed

21/10/2024

22/10/2024

23/10/2024

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	24.85	mg/L	APIIA 2Jrd Ldn J500 Ca B	/5	200
3	Chloride	25.99	mg/L	IS 3025- Part 32	250	1000
4	Coloui	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	17.01	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	6.5-8.5	No relaxation
9	Sulphate	13.39	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	154.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL AS Per IS 10500

Total Hardness as CaCO3

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

132.00

Analyzed By Kinjal Damor



mg/L

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Page No: 1/2

600

200

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/06

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2360D/06C/06

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Chindhi tola village open dugwell (GW)

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/10/2024 22/10/2024 23/10/2024

29/10/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.2	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	1.12	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



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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/07

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2360D/06C/07

Laboratory Representative

Sample Drawn By: Sample Type:

Sample Description: Sample Quantity:

Dugwell near pit office (GW)

3 L

Sample Condition:

Satisfactory

Sampling Date:

21/10/2024 Sample Receipt Date: 22/10/2024

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

23/10/2024 29/10/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	110.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	19.64	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	34.49	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	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	7	IS 3025- Part 5	Agreeable	e Agreeable
8	pH at 25 °C	7.52	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	15.67	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	204.00	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	123.00	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



Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/07

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2360D/06C/07

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Dugwell near pit office (GW)

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sealed

21/10/2024

22/10/2024

23/10/2024

29/10/2024

Packing:

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	0.69	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

Authorized Signatory Payal Patel

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/08

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2360D/06C/08

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Dugwell near Haul road 2 (GW)

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/10/2024 22/10/2024

23/10/2024 29/10/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	116.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	28.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	47.48	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	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeabl
8	pH at 25 °C	7.65		IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	19.94	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	220.00	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/2360D/06C/08

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2360D/06C/08

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Dugwell near Haul road 2 (GW)

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

22/10/2024 23/10/2024

21/10/2024

29/10/2024 GGMPL/WI/27A

Sealed

Specification:

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

Kinjal Damor

Authorized Signatory Payal Patel

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2360D/06C/09

M/s Moil Limited

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

Reporting Date: 29/10/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/2360D/06C/09 Laboratory Representative

Waste Water

Sample Description: Sample Quantity:

Sample Type:

Near mine seapage vertical 2

Sample Condition.

Salisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

21/10/2024 22/10/2024

23/10/2024 29/10/2024

GGMPL/WI/27A

Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.36	-	IS 3025- Part 11	14 V
2	Total Suspended Solids	17.00	mq/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Demand	28.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.60	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	8.75	mg/L	IS 3025- Part 44	
7	Manganese	BQI (QI=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

Analyzed By Kinial Damor

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2366D/06C/01

M/s Moil Limited

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

Reporting Date: 28/10/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2366D/06C/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Chindhi tola village open dugwell (GW)

Sample Quantity:

Sample Condition:

500 ml

Satisfactory

Sampling Date:

21/10/2024

Sample Receipt Date:

21/10/2024

Analysis Start Date: Analysis End Date:

22/10/2024 28/10/2024

Sampling Method:

GGMPI /WT/27A

Packing:

Sealed

3pecification.

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

AL & PL as per IS 10500.

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

Aman Soni

- End of Report ---

AAN

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2366D/06C/02

M/s Moil Limited

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

Reporting Date: 28/10/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2366D/06C/02

Sample Drawn By: Sample Type:

Laboratory Representative Ground Water

Sample Description:

Dugwell near pit office (GW)

Sample Quantity: Sample Condition:

500 ml Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

22/10/2024 28/10/2024 GGMPL/WI/27A

21/10/2024

21/10/2024

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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Report Number: GGMPL/PN/2366D/06C/03

M/s Moil Limited

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

Reporting Date: 28/10/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2366D/06C/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Dugwell near Haul road 2 (GW)

Sample Quantity:

500 ml

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

28/10/2024 GGMPL/WI/27A

21/10/2024

21/10/2024

22/10/2024

Sealed

Specification:

		Results	Unit	Test Method	AL	PL
1 Tot	al coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Ahsent	Ahsent
2 E. c	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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End of Report

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