

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: Laboratory Representative
Sample Type: Ground Water
Sample Description: D.W Mine Office
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 14/03/2024
Sample Receipt Date: 16/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 28/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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 SO ₄ 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 CaCO ₃	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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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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2630C/06A/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: D.W Mine Office
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 14/03/2024
Sample Receipt Date: 16/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 28/03/2024
Sampling Method: 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	0.3	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

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Kinjal Damor



--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 22/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2633C/06A/V4/02	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
Sample Description:	DW Mine Office	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

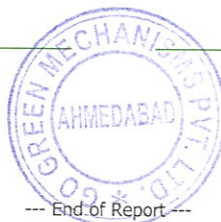
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi

Analyzed By
Nidhi Shah



HS

Authorized Signatory
Dr. Haragobinda Srichandan

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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/V4/02	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	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:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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 SO ₄ 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

Analyzed By
Kinjaal Damor



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Manish Kumawat

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M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2630C/06A/V4/02	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	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:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	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 NO ₃ B	45	No Relaxation

AL & PL As Per IS 10500.

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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

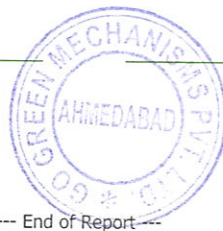
Lab ID:	Lab/PN/2633C/06A/V4/01	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Water	Analysis Start Date:	18/03/2024
Sample Description:	GW New Mine Colony Pump House	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

						Specification:	
Sr.No	Parameters	Results	Unit	Test Method		AL	PL
1	Total 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

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Nidhi Shah




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Report Number: GGMPL/PN/2630C/06A/V4/03

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: Laboratory Representative
Sample Type: Ground Water
Sample Description: D.W officer Colony No-4
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 14/03/2024
Sample Receipt Date: 16/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 28/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	30.52	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	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 CaCO ₃	120.00	mg/L	APHA 23rd Edn 2340 C	200	600

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Reporting Date : 29/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2630C/06A/V4/03
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: D.W officer Colony No-4
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 14/03/2024
Sample Receipt Date: 16/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 28/03/2024
Sampling Method: 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	3.56	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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Kinjal Damor



--- End of Report ---

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Head Office & Lab

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Email Id : lab@gogreenmechanisms.com

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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/V4/03	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
Sample Description:	DW Officer Colony No.4	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

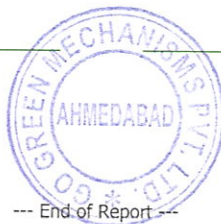
						Specification:	
Sr.No	Parameters	Results	Unit	Test Method		AL	PL
1	Total coliform	Absent	Present or Absent/100 ml	APHA 9222 A&B 24th Edition 2021		Absent	Absent
2	E.coli	Absent	Present or Absent/100 ml	APHA 922H 24th Edition 2021		Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi

Analyzed By
Nidhi Shah



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Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/2630C/06A/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: Rest House D.W.

Sampling Date: 14/03/2024
Sample Receipt Date: 16/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 28/03/2024

Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Method: GGMPL/WI/27A
Packing: Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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	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 SO ₄ 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



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2630C/06A/V4/04

Reporting Date : 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/2630C/06A/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: Rest House D.W.

Sampling Date: 14/03/2024
Sample Receipt Date: 16/03/2024
Analysis Start Date: 18/03/2024
Analysis End Date: 28/03/2024

Sample Quantity: 4.5 L
Sample Condition: Satisfactory

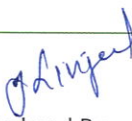
Sampling Method: GGMP/L/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	105.00	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	GGMP/L/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.19	mg/L	APHA 23rd Edn 4500 NO ₃ 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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CERTIFICATE OF ANALYSIS

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

Reporting Date : 22/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/2633C/06A/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: DW Rest House
Sample Quantity: 300 ml
Sample Condition: Satisfactory

Sampling Date: 14/03/2024
Sample Receipt Date: 16/03/2024
Analysis Start Date: 18/03/2024
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 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

Nidhi
Analyzed By
Nidhi Shah



--- End of Report ---

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Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/2630C/06A/V4/05

Reporting Date: 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2630C/06A/V4/05	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Nayra Plant	Analysis start- End Date:	18/03/2024-28/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°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	GGMP/L/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	GGMP/L/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

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 29/03/2024

M/s Moil Limited

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



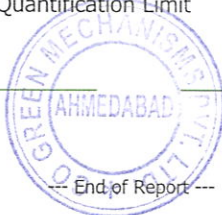
SAMPLE DETAILS

Lab ID:	Lab/PN/2630C/06A/V4/05	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Nayra Plant	Analysis start- End Date:	18/03/2024-28/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	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	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



Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2630C/06A/V4/06	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near vertical Shaft 1	Analysis start- End Date:	18/03/2024-28/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.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 Damar



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Manish Kumawat

Page No : 1/2

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 29/03/2024

M/s Moil Limited

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



TC-7073

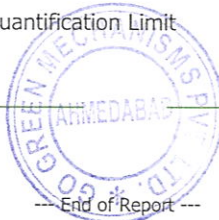
SAMPLE DETAILS

Lab ID:	Lab/PN/2630C/06A/V4/06	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near vertical Shaft 1	Analysis start- End Date:	18/03/2024-28/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	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	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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CERTIFICATE OF ANALYSIS

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

Reporting Date: 29/03/2024

M/s Moil Limited

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



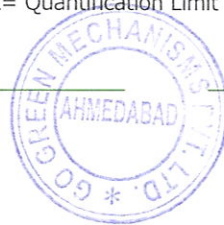
SAMPLE DETAILS

Lab ID:	Lab/PN/2630C/06A/V4/07	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Workshop	Analysis start- End Date:	18/03/2024-28/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°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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Head Office & Lab

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/V4/07

Reporting Date: 29/03/2024

M/s Moil Limited

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



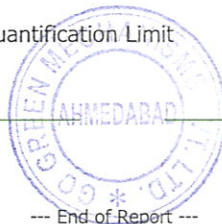
SAMPLE DETAILS

Lab ID:	Lab/PN/2630C/06A/V4/07	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Workshop	Analysis start- End Date:	18/03/2024-28/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	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	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



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Manish Kumawat

Page No : 2/2

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Head Office & Lab

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date: 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2630C/06A/V4/08	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Ukwa Village	Analysis start- End Date:	18/03/2024-28/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°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



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 29/03/2024

M/s Moil Limited

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



TC-7073

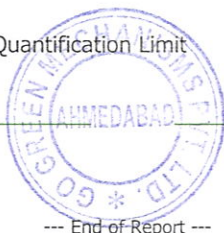
SAMPLE DETAILS

Lab ID:	Lab/PN/2630C/06A/V4/08	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Ukwa Village	Analysis start- End Date:	18/03/2024-28/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	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

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

Analyzed By
Kinjal Damor



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Manish Kumawat

Page No : 2/2

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2630C/06A/V4/09

Reporting Date: 29/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

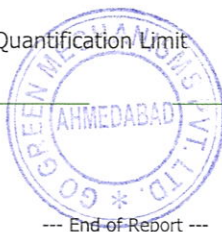
Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 14/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2630C/06A/V4/09A	Nr Nagra Plant	Day Time	dB(A)Leq	IS 4758	68.9	-
2	Lab/PN/2630C/06A/V4/09B	Near Vertical Shaft 1	Day Time	db(A)Leq	IS 4758	69.3	-
3	Lab/PN/2630C/06A/V4/09C	Near Workshop	Day Time	db(A)Leq	IS 4758	67.3	-
4	Lab/PN/2630C/06A/V4/09D	Near Ukwa Village	Day Time	db(A)Leq	IS 4758	66.7	-
5	Lab/PN/2630C/06A/V4/09A	Nr Nagra Plant	Night Time	db(A)Leq	IS 4758	58.1	-
6	Lab/PN/2630C/06A/V4/09B	Near Vertical Shaft 1	Night Time	db(A)Leq	IS 4758	57.6	-
7	Lab/PN/2630C/06A/V4/09C	Near Workshop	Night	db(A)Leq	IS 4758	56.2	-
8	Lab/PN/2630C/06A/V4/09D	Near Ukwa Village	Night	db(A)Leq	IS 4758	55.8	-

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

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Kinjal Damor



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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:	Lab/PN/2631C/06B/V4/01	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Waste Water	Analysis Start Date:	16/03/2024
Sample Description:	Mine Seepage Water (WW)	Analysis End Date:	23/03/2024
Sample Quantity:	4.5 L	Sampling Method:	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	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 °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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2631C/06B/V4/02	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Waste Water	Analysis Start Date:	16/03/2024
Sample Description:	Waste water of STP Outlet	Analysis End Date:	23/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.18	-	IS 3025- Part 11	NS
2	Total Suspended Solids	33.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand	60.00	mg/L	APHA 23rd Edn 5220 B	NS
5	Dissolved Oxygen	5.0	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	19	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

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	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Waste Water	Analysis Start Date:	16/03/2024
Sample Description:	ETP Outlet(WW)	Analysis End Date:	23/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	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 °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


 Analyzed By
 Jadav Vishal


 End of Report ---


 Authorized Signatory
 Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

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	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Vertical Shaft II Open Dugwell (GW)	Analysis End Date:	23/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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 Relaxation
9	Sulphate	24.78	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	360.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	5.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	200.00	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

Vishal
Analyzed By
Jadav Vishal



Manish
Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 25/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2631C/06B/V4/04	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Vertical Shaft II Open Dugwell (GW)	Analysis End Date:	23/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	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

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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:	Lab/PN/2634C/06B/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
Sample Description:	GW Vertical Shaft-II Open Dugwell	Analysis End Date:	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
1	Total 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

Nidhi

Analyzed By
Nidhi Shah



--- End of Report ---

HB

Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 25/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2631C/06B/V4/05	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Vertical shaft- II	Analysis start- End Date:	16/03/2024-23/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.No	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
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



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 25/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2631C/06B/V4/05	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Vertical shaft- II	Analysis start- End Date:	16/03/2024-23/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	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	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 Speed	5.52	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 25/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2631C/06B/V4/06	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Substation	Analysis start- End Date:	16/03/2024-23/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

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 Limit

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

Reporting Date: 25/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2631C/06B/V4/06	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Substation	Analysis start- End Date:	16/03/2024-23/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	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	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 Speed	5.52	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 25/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2631C/06B/V4/07	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Admin Building	Analysis start- End Date:	16/03/2024-23/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25 ± 5 °C

Sr.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

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

Reporting Date: 25/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2631C/06B/V4/07	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Admin Building	Analysis start- End Date:	16/03/2024-23/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	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= Quantification Limit

Analyzed By
Jadav Vishal



Authorized Signatory
Manish Kumawat

Page No : 2/2

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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:	Lab/PN/2631C/06B/V4/08	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	16/03/2024-23/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	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



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 25/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2631C/06B/V4/08	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	16/03/2024-23/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	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	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	5.52	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Jadav Vishal



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 25/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 14/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2631C/06B/V4/09/A	Near Vertical Shaft -II	Day Time	dB(A)Leq	IS 4758	69.1	-
2	Lab/PN/2631C/06B/V4/09/B	Compressor House- II	Day Time	dB(A)Leq	IS 4758	71.6	-
3	Lab/PN/2631C/06B/V4/09/C	Near Jack Hammer Drill (1650 Level)	Day Time	dB(A)Leq	IS 4758	73.4	-
4	Lab/PN/2631C/06B/V4/09/D	Dumper Loaded at Workshop	Day Time	dB(A)Leq	IS 4758	71.4	-
5	Lab/PN/2631C/06B/V4/09/A	Near Vertical Shaft -II	Night Time	dB(A)Leq	IS 4758	61.2	-
6	Lab/PN/2631C/06B/V4/09/B	Compressor House- II	Night Time	dB(A)Leq	IS 4758	62.4	-
7	Lab/PN/2631C/06B/V4/09/C	Near Jack Hammer Drill (1650 Level)	Night Time	dB(A)Leq	IS 4758	65.4	-
8	Lab/PN/2631C/06B/V4/09/D	Dumper Loaded at Workshop	Night Time	dB(A)Leq	IS 4758	62.6	-

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

Vishal

Analyzed By
Jadav Vishal



Manish Kumawat

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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2632C/06C/V4/01

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2632C/06C/V4/01	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Waste Water	Analysis Start Date:	16/03/2024
Sample Description:	Near Mine seepage vertical Shaft-2	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/W1/27A
Sample Condition:	Satisfactory	Packing:	Sealed

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 °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



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Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/2632C/06C/V4/02	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Chindi Tola Village Open Dugwell (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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	Agreeable	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 SO ₄ 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 CaCO ₃	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


Analyzed By
Priyanka Shrimali




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Manish Kumawat

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2632C/06C/V4/02	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Chindi Tola Village Open Dugwell (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	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

Priyanka

Analyzed By
Priyanka Shrimali



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 21/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2635C/06C/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
Sample Description:	GW Chindi Tola Village Open Dugwell	Analysis End Date:	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
1	Total 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



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Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/2632C/06C/V4/03	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Dugwell near pit office (GW)	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

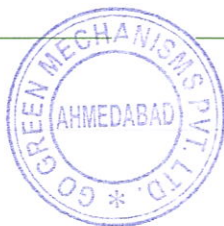
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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 SO ₄ 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 CaCO ₃	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




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Manish Kumawat

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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



SAMPLE DETAILS

Lab ID: Lab/PN/2632C/06C/V4/03
Sample Drawn By: Laboratory Representative
Sample Type: Ground Water
Sample Description: Dugwell near pit office (GW)
Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Sampling Date: 14/03/2024
Sample Receipt Date: 16/03/2024
Analysis Start Date: 16/03/2024
Analysis End Date: 26/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

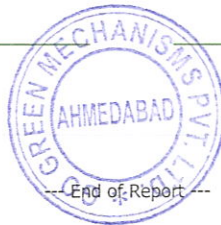
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.20	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Priyanka

Analyzed By
Priyanka Shrimali



Manish

Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/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



SAMPLE DETAILS

Lab ID:	Lab/PN/2635C/06C/V4/02	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
Sample Description:	GW Dugwell Near Pit Office	Analysis End Date:	21/03/2024
Sample Quantity:	300 ml	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total 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

Nidhi
Analyzed By
Nidhi Shah



HS
Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2632C/06C/V4/04

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2632C/06C/V4/04	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Dugwell near pit Haul Road 2	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	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 SO ₄ 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 CaCO ₃	150.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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Priyanka
Analyzed By
Priyanka Shirmali



Manish
Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2632C/06C/V4/04	Sampling Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	16/03/2024
Sample Type:	Ground Water	Analysis Start Date:	16/03/2024
Sample Description:	Dugwell near pit Haul Road 2	Analysis End Date:	26/03/2024
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 21/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/2635C/06C/V4/03	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
Sample Description:	GW Dugwell Near Haul Road-II	Analysis End Date:	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
1	Total 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 ---


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Dr. Haragobinda Srichandan

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Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2632C/06C/V4/05	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Chindi tola Village	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.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


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Priyanka Shrimali




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

Reporting Date: 27/03/2024

M/s Moil Limited


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

**SAMPLE DETAILS**

Lab ID:	Lab/PN/2632C/06C/V4/05	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Chindi tola Village	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	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	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2632C/06C/V4/06	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2632C/06C/V4/06	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Haul Road	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	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	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



--- End of Report ---


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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



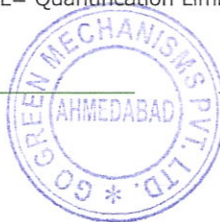
SAMPLE DETAILS

Lab ID:	Lab/PN/2632C/06C/V4/07	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Explosive Magazine	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.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


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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2632C/06C/V4/07	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near Explosive Magazine	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	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	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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2632C/06C/V4/08	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near New Mine Colony	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

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


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

Reporting Date: 27/03/2024

M/s Moil Limited

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




SAMPLE DETAILS


Lab ID:	Lab/PN/2632C/06C/V4/08	Sampling Start Date:	14/03/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	15/03/2024
Sample Type:	Ambient Air	Sample Receipt Date:	16/03/2024
Sample Description:	Near New Mine Colony	Analysis start- End Date:	16/03/2024-26/03/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 27/03/2024

M/s Moil Limited

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



TC-7073


SAMPLE DETAILS

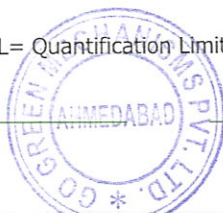
Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 14/03/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2632C/06C/V4/09A	Near Chindi Tola Village	Day Time	dB(A)Leq	IS 4758	67.1	-
2	Lab/PN/2632C/06C/V4/09B	Near pit office -2 vertical shaft	Day Time	dB(A)Leq	IS 4758	68.9	-
3	Lab/PN/2632C/06C/V4/09C	Near vertical fan	Day Time	dB(A)Leq	IS 4758	70.3	-
4	Lab/PN/2632C/06C/V4/09D	Near haul road	Day Time	dB(A)Leq	IS 4758	68.8	-
5	Lab/PN/2632C/06C/V4/09A	Near Chindi Tola Village	Night Time	dB(A)Leq	IS 4758	59.1	-
6	Lab/PN/2632C/06C/V4/09B	Near pit office -2 vertical shaft	Night Time	dB(A)Leq	IS 4758	61.0	-
7	Lab/PN/2632C/06C/V4/09C	Near vertical fan	Night Time	dB(A)Leq	IS 4758	62.4	-
8	Lab/PN/2632C/06C/V4/09D	Near haul road	Night Time	dB(A)Leq	IS 4758	61.7	-

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


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