

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1969C/06A/V3/01

Reporting Date : 11/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/01	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	01/01/2024
Sample Description:	Mine office D.W.	Analysis End Date:	10/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	6.92	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	75.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	30.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	50.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.30	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	8.50	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	38.74	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	233.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	110.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Analyzed By
Dishant Patel



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Payal Patel

Page No : 1/2

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Report Number: GGMPL/PN/1969C/06A/V3/01

Reporting Date : 11/01/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1969C/06A/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Mine office D.W.
Sample Quantity: 4 L
Sample Condition: Satisfactory

Sampling Date: 27/12/2023
Sample Receipt Date: 31/12/2023
Analysis Start Date: 01/01/2024
Analysis End Date: 10/01/2024
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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.43	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/1969C/06A/V3/01A

Reporting Date : 11/01/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID: Lab/PN/1969C/06A/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Mine office D.W.
Sample Quantity: 4 L
Sample Condition: Satisfactory

Sampling Date: 27/12/2023
Sample Receipt Date: 31/12/2023
Analysis Start Date: 01/01/2024
Analysis End Date: 10/01/2024
Sampling Method: GGMP/L/WI/27A
Packing: Sealed

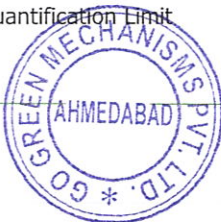
Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1969C/06A/V3/02

Reporting Date : 11/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/02	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	New Mine colony pump house G.W.	Analysis End Date:	10/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.16	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	87.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	55.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.34	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	9.23	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	39.14	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	255.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	119.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AI & PL As Per IS 10500

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

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Page No : 1/2

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M/s Moil Limited

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

Reporting Date : 11/01/2024



SAMPLE DETAILS

Lab ID: Lab/PN/1969C/06A/V3/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: New Mine colony pump house G.W.
Sample Quantity: 4 L
Sample Condition: Satisfactory

Sampling Date: 27/12/2023
Sample Receipt Date: 31/12/2023
Analysis Start Date: 02/01/2024
Analysis End Date: 10/01/2024
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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.99	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

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Reporting Date : 11/01/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/02	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	New Mine colony pump house G.W.	Analysis End Date:	10/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

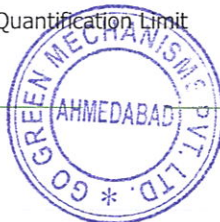
Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

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Reporting Date : 11/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/03	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Officer Colony No.4 D.W.	Analysis End Date:	10/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	6.43	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	91.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	61.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	8.50	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	37.77	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	246.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	125.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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Reporting Date : 11/01/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/03	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Officer Colony No.4 D.W.	Analysis End Date:	10/01/2024
Sample Quantity:	4 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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.21	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

SAMPLE DETAILS

Lab ID: Lab/PN/1969C/06A/V3/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Officer Colony No.4 D.W.
Sample Quantity: 4 L
Sample Condition: Satisfactory

Sampling Date: 27/12/2023
Sample Receipt Date: 31/12/2023
Analysis Start Date: 02/01/2024
Analysis End Date: 10/01/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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Page No : 1/1

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Head Office & Lab

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

Report Number: GGMPL/PN/1969C/06A/V3/04

Reporting Date : 11/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/04	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Rest House D.W.	Analysis End Date:	10/01/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

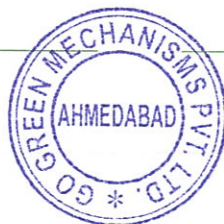
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.22	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	88.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	34.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	52.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.70	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	7.77	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	29.04	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	228.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	117.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

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Dishant Patel



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Payal Patel

Page No : 1/2

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Report Number: GGMPL/PN/1969C/06A/V3/04

Reporting Date : 11/01/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1969C/06A/V3/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Rest House D.W.
Sample Quantity: 4 L
Sample Condition: Satisfactory

Sampling Date: 27/12/2023
Sample Receipt Date: 31/12/2023
Analysis Start Date: 02/01/2024
Analysis End Date: 10/01/2024
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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.50	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/1969C/06A/V3/04A

Reporting Date : 11/01/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID: Lab/PN/1969C/06A/V3/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Rest House D.W.
Sample Quantity: 4 L
Sample Condition: Satisfactory

Sampling Date: 27/12/2023
Sample Receipt Date: 31/12/2023
Analysis Start Date: 02/01/2024
Analysis End Date: 10/01/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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

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Report Number : GGMPL/PN/1969C/06A/V3/05

Reporting Date: 11/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/05	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Nr Nagra Plant	Analysis start- End Date:	02/01/2024-10/01/2024
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)	75.66	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.40	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.01	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.10	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.79	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.72	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)	1.01	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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Reporting Date: 11/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/05	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Nr Nagra Plant	Analysis start- End Date:	02/01/2024-10/01/2024
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	24	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4.6	m/s	GGMPL/SOP/MP/01:2020	NS

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1969C/06A/V3/06

Reporting Date: 11/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/06	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Nr. Vertical Shaft 1	Analysis start- End Date:	02/01/2024-10/01/2024
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)	77.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.11	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.88	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.11	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)	1.03	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

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Reporting Date: 11/01/2024

M/s Moil Limited

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



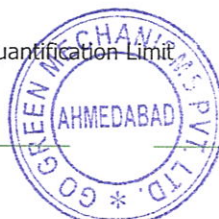
SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/06	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Nr. Vertical Shaft 1	Analysis start- End Date:	02/01/2024-10/01/2024
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	23	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Dishant Patel



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1969C/06A/V3/07

Reporting Date: 11/01/2024

M/s Moil Limited

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



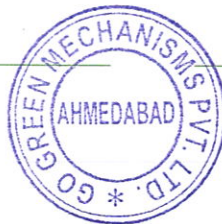
SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/07	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Workshop	Analysis start- End Date:	02/01/2024-10/01/2024
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)	77.76	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.31	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	23.13	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.07	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)	1.00	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

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1969C/06A/V3/07

Reporting Date: 11/01/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/07	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Workshop	Analysis start- End Date:	02/01/2024-10/01/2024
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	23	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4.6	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Dishant Patel



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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1969C/06A/V3/08

Reporting Date: 11/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/08	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Ukwa Village	Analysis start- End Date:	02/01/2024-10/01/2024
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)	78.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.02	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.49	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.41	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.49	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.99	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	1.17	ng/m3	USEPA Method IO 3.4	6

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

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1969C/06A/V3/08

Reporting Date: 11/01/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1969C/06A/V3/08	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Ukwa Village	Analysis start- End Date:	02/01/2024-10/01/2024
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	24	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4.6	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1969C/06A/V3/09

Reporting Date: 11/01/2024

M/s Moil Limited

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



TC-7073


SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 27/12/2023
Sample Description: Source Noise


Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1969C/06A/V3A	Nr Nagra Plant	Day Time	dB(A)Leq	IS 4758	68.9	-
2	Lab/PN/1969C/06A/V3B	Near Vertical Shaft 1	Day Time	dB(A)Leq	IS 4758	70.3	-
3	Lab/PN/1969C/06A/V3C	Near Workshop	Day Time	dB(A)Leq	IS 4758	69.8	-
4	Lab/PN/1969C/06A/V3D	Near Ukwa Village	Day Time	dB(A)Leq	IS 4758	59.9	-

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


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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1970C/06B/V3/01

M/s Moil Limited

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

Reporting Date : 12/01/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/01	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Vertical shaft-II Open Dug well (GW)	Analysis End Date:	11/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

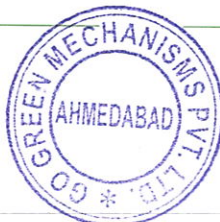
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.33	-	IS 3025-Part 11	6.5 - 8.5	No relaxation
2	Alkalinity as CaCO ₃	192.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	49.30	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	62.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.42	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	23.33	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	32.5	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	336.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	219.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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



Analyzed By
Gyanvati Shukla



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Page No : 1/2

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Reporting Date : 12/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/01	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Vertical shaft-II Open Dug well (GW)	Analysis End Date:	11/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	3.5	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.20	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

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1970C/06B/V3/01A

Reporting Date : 12/01/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/01	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Vertical shaft-II Open Dug well (GW)	Analysis End Date:	11/01/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	-	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	-	Absent

AL & PL As Per IS 10500

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

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1970C/06B/V3/02

Reporting Date : 12/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/02	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Waste Water	Analysis Start Date:	02/01/2024
Sample Description:	STP Outlet (WW)	Analysis End Date:	11/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.46	-	IS 3025- Part 11	NS
2	Total Suspended Solids	24.00	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	50.00	mg/L	APHA 23rd Edn 5220 B	NS
5	Dissolved Oxygen	5.10	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	14	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.214	mg/L	APHA 23rd Edn 3120 B	NS

Norms As Per CCA

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

Analyzed By
Gyanvati Shukla



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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1970C/06B/V3/03

M/s Moil Limited

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

Reporting Date : 12/01/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1970C/06B/V3/03
Sample Drawn By: Laboratory Representative
Sample Type: Waste Water
Sample Description: ETP Outlet(WW)
Sample Quantity: 3.5 L
Sample Condition: Satisfactory

Sampling Date: 27/12/2023
Sample Receipt Date: 31/12/2023
Analysis Start Date: 02/01/2024
Analysis End Date: 11/01/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.58	-	IS 3025- Part 11	5.5 to 9.0
2	Total Suspended Solids	18.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.60	mg/L	IS 3025- Part 38	NS
6	BOD at 27 °C for 3 days	19.23	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.199	mg/L	APHA 23rd Edn 3120 B	NS

Norms As Per CCA

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

Analyzed By
Gyanvati Shukla



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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1970C/06B/V3/04

M/s Moil Limited

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

Reporting Date : 12/01/2024




SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/04	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Waste Water	Analysis Start Date:	02/01/2024
Sample Description:	Mine Seepage Water (WW)	Analysis End Date:	11/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.22	-	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	80.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	23	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	0.154	mg/L	APHA 23rd Edn 3120 B	-

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


Analyzed By
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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1970C/06B/V3/05

Reporting Date: 12/01/2024

M/s Moil Limited

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




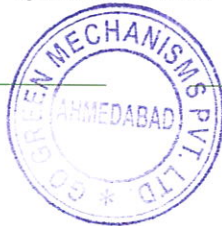
SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/05	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Vertical shaft- II	Analysis start- End Date:	02/01/2024-11/01/2024
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)	63.88	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)	13.84	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	6.94	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1970C/06B/V3/05

Reporting Date: 12/01/2024

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/05	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Vertical shaft- II	Analysis start- End Date:	02/01/2024-11/01/2024
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.7	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/1970C/06B/V3/06

Reporting Date: 12/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/06	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Electrical Substation	Analysis start- End Date:	02/01/2024-11/01/2024
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)	69.22	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.33	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)	19.36	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.95	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.72	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)	1.11	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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Head Office & Lab

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1970C/06B/V3/06

Reporting Date: 12/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/06	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Electrical Substation	Analysis start- End Date:	02/01/2024-11/01/2024
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	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	48	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.7	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/1970C/06B/V3/07

Reporting Date: 12/01/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/07	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Admin Building	Analysis start- End Date:	02/01/2024-11/01/2024
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)	60.19	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)	12.82	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.10	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.18	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	6.94	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)	0.99	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/1970C/06B/V3/07

Reporting Date: 12/01/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/07	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Admin Building	Analysis start- End Date:	02/01/2024-11/01/2024
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.7	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/1970C/06B/V3/08

Reporting Date: 12/01/2024

M/s Moil Limited

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




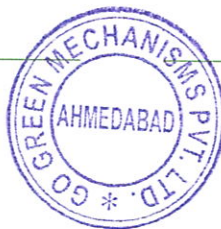
SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/08	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	02/01/2024-11/01/2024
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)	62.05	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.64	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.02	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.48	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.33	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Gyanvati Shukla




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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1970C/06B/V3/08

Reporting Date: 12/01/2024

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1970C/06B/V3/08	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	02/01/2024-11/01/2024
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	47	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.6	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1970C/06B/V3/09

Reporting Date: 12/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Laboratory Representative

Sampling Date:

27/12/2023

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1970C/06B/V3/09A	Near Vertical Shaft II	Day Time	dB(A)Leq	IS 4758	70.8	-
2	Lab/PN/1970C/06B/V3/09B	Near Compressor House II	Day Time	dB(A)Leq	IS 4758	73.5	-
3	Lab/PN/1970C/06B/V3/09C	Near Jack Hammer Drill(1650 level)	Day Time	dB(A)Leq	IS 4758	71.4	-
4	Lab/PN/1970C/06B/V3/09D	Near Dumper loaded at workshop	Day Time	dB(A)Leq	IS 4758	70.2	-

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1971C/06C/V3/01

Reporting Date : 09/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/01	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Chindi Tola Village Open Dugwell (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.05	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	160.00	mg/L	APHA 23rd Edn 2320 B	100	600
3	Calcium as Ca	32.06	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	40.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.25	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	35.51	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	235.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	154.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as Per IS 10500

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

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Analyzed By
Priyanka Shirmali



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Page No : 1/2

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Report Number: GGMPL/PN/1971C/06C/V3/01

Reporting Date : 09/01/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/01	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Chindi Tola Village Open Dugwell (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.2	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	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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Analyzed By
Priyanka Shrimali



P.B. Patel
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Payal Patel

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Page No : 2/2

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Report Number: GGMPL/PN/1971C/06C/V3/01A

Reporting Date : 09/01/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/01	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Chindi Tola Village Open Dugwell (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:


Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL as Per IS 10500

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1971C/06C/V3/02

Reporting Date : 09/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/02	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Dugwell near pit office (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.4	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	126.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	22.44	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	35.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.25	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	21.38	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	206.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	136.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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Report Number: GGMPL/PN/1971C/06C/V3/02

Reporting Date : 09/01/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/1971C/06C/V3/02	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Dugwell near pit office (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.5	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.72	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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Report Number: GGMP/L/PN/1971C/06C/V3/02A

Reporting Date : 09/01/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/02	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Dugwell near pit office (GW)	Analysis End Date:	08/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

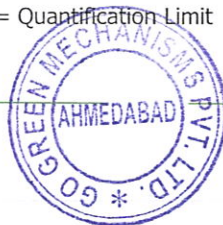
Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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


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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1971C/06C/V3/03

Reporting Date : 09/01/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/1971C/06C/V3/03	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Dugwell near Haul Road 2	Analysis End Date:	08/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.08	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	126.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	31.26	mg/L	APHA 23rd Edn 3500 Ca B	75	0.00000
4	Chloride	42.98	mg/L	IS 3025 -Part 32	250	100
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.25	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	16.03	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	15.00	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	196.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	144.0	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as Per IS 10500

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


Analyzed By
Priyanka Shirmali




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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1971C/06C/V3/03

M/s Moil Limited

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

Reporting Date : 09/01/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/1971C/06C/V3/03	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Dugwell near Haul Road 2	Analysis End Date:	08/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.1	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	0.25	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.49	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as Per IS 10500

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1971C/06C/V3/03A

Reporting Date : 09/01/2024

M/s Moil Limited

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

SAMPLE DETAILS


Lab ID:	Lab/PN/1971C/06C/V3/03	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Water	Analysis Start Date:	02/01/2024
Sample Description:	Dugwell near Haul Road 2	Analysis End Date:	08/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL as Per IS 10500

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


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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1971C/06C/V3/04

M/s Moil Limited

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

Reporting Date : 09/01/2024




SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/04	Sampling Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	31/12/2023
Sample Type:	Waste Water	Analysis Start Date:	02/01/2024
Sample Description:	Near Mine seepage vertical 2	Analysis End Date:	08/01/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.32	-	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	60.0	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	3.90	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	19.33	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


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Page No : 1/1

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Report Number : GGMPL/PN/1971C/06C/V3/05

Reporting Date: 09/01/2024

M/s Moil Limited

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




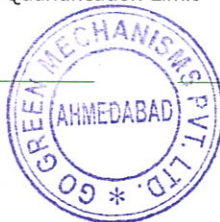
SAMPLE DETAILS


Lab ID:	Lab/PN/1971C/06C/V3/05	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Chindi tola Village	Analysis start- End Date:	02/01/2024-08/01/2024
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)	63.16	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)	12.55	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	12.13	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.13	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)	1.14	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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Page No : 1/2

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Reporting Date: 09/01/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/05	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Chindi tola Village	Analysis start- End Date:	02/01/2024-08/01/2024
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	38	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.68	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1971C/06C/V3/06

Reporting Date: 09/01/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/06	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Haul Road	Analysis start- End Date:	02/01/2024-08/01/2024
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)	72.87	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.55	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.82	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.22	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)	1.11	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/1971C/06C/V3/06

Reporting Date: 09/01/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/06	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Haul Road	Analysis start- End Date:	02/01/2024-08/01/2024
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	38	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.68	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1971C/06C/V3/07

Reporting Date: 09/01/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/07	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Explosive Magazine	Analysis start- End Date:	02/01/2024-08/01/2024
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)	58.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.78	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.72	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1971C/06C/V3/07

Reporting Date: 09/01/2024

M/s Moil Limited

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

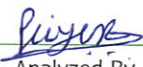


SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/07	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near Explosive Magazine	Analysis start- End Date:	02/01/2024-08/01/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

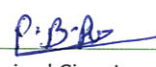
Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	38	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL(QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.68	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Priyanka Shrimali



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1971C/06C/V3/08

Reporting Date: 09/01/2024

M/s Moil Limited

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



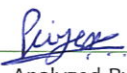
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/08	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near New Mine Colony	Analysis start- End Date:	02/01/2024-08/01/2024
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)	62.24	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.72	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.47	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	6.24	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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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1971C/06C/V3/08

Reporting Date: 09/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1971C/06C/V3/08	Sampling Start Date:	27/12/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/12/2023
Sample Type:	Ambient Air	Sample Receipt Date:	31/12/2023
Sample Description:	Near New Mine Colony	Analysis start- End Date:	02/01/2024-08/01/2024
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	38	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3.68	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1971C/06C/V3/09

Reporting Date: 09/01/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Laboratory representative

Sampling Date:

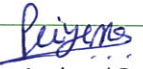
27/12/2023

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1971C/06C/V3/09A	Near Chindi Tola Village	Day time	dB(A)Leq	IS 4758	56.8	-
2	Lab/PN/1971C/06C/V3/09B	Near pit office -2 vertical shaft	Day time	dB(A)Leq	IS 4758	65.9	-
3	Lab/PN/1971C/06C/V3/09C	Near vertical fan	Day time	dB(A)Leq	IS 4758	67.8	-
4	Lab/PN/1971C/06C/V3/09D	Near haul road	Day time	dB(A)Leq	IS 4758	60.3	-

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