

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

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

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/V3/01

Laboratory Representative Water

Sample Type: Sample Description:

Sample Drawn By:

Mine office D.W.

Satisfactory

Sample Quantity:

4 L

Sample Condition:

Sampling Date:

27/12/2023

Sample Receipt Date: Analysis Start Date:

31/12/2023 01/01/2024

Analysis End Date: Sampling Method:

10/01/2024 GGMPL/WI/27A

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 CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	233.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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



Authorized Signatory Payal Patel

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M/s Moil Limited

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

Reporting Date: 11/01/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/1969C/06A/V3/01

Laboratory Representative Water

Mine office D.W. 4 L

Sample Description: Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

27/12/2023 31/12/2023 01/01/2024

10/01/2024 GGMPL/WI/27A

Sealed

Specification:

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

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

Analyzed By Dishant Patel

* End of Repor

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Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

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

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/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Mine office D.W.

Sample Quantity: Sample Condition: 4 L

Satisfactory

Sampling Date:

27/12/2023

Sample Receipt Date: Analysis Start Date:

31/12/2023 01/01/2024

Analysis End Date: Sampling Method:

10/01/2024 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 Li

Analyzed By Dishant Patel

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

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/V3/02 Laboratory Representative Sampling Date: Sample Receipt Date: 27/12/2023 31/12/2023 02/01/2024

Sample Drawn By: Sample Type:

Water

Analysis Start Date: Analysis End Date:

10/01/2024 GGMPL/WI/27A

Sample Description: Sample Quantity: New Mine colony pump house G.W. 4 L

Sampling Method:

Coaled

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

Al & PL As Per IS 10500

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

0

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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



TC-707

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/1969C/06A/V3/02 Laboratory Representative Sampling Date: 27/12/ Sample Receipt Date: 31/12/

27/12/2023 31/12/2023 02/01/2024

Sample Type: Sample Description:

New Mine colony pump house G.W.

Analysis Start Date: Analysis End Date: Sampling Method:

10/01/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 4 L

Satisfactory

Sampling i

Sealed

Packing:

Specification:

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

Al & PL As Per IS 10500

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

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Analyzed By Dishant Patel AHMEDABAD P

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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

Sampling Date:

27/12/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

31/12/2023

Sample Type:

Water

Analysis Start Date: Analysis End Date:

02/01/2024 10/01/2024

Sample Description:

New Mine colony pump house G.W. 4 L

Sampling Method:

GGMPL/WI/27A

Sample Quantity: 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

Analyzed By Dishant Patel

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Report Number: GGMPL/PN/1969C/06A/V3/03

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:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

4 L Satisfactory

Lab/PN/1969C/06A/V3/03

Laboratory Representative

Officer Colony No.4 D.W.

Sampling Date:

Sample Receipt Date: Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

27/12/2023

31/12/2023 02/01/2024 10/01/2024

GGMPL/WI/27A

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 CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	246.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

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

Analyzed By Dishant Patel AHMEDABAD

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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: Sample Drawn By:

Sample Type:

Lab/PN/1969C/06A/V3/03 Laboratory Representative

Water

Sample Description: Sample Quantity:

Officer Colony No.4 D.W.

Sample Condition: Satisfactory Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

27/12/2023

31/12/2023 02/01/2024 10/01/2024

GGMPL/WI/27A

Sealed

Specification:

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

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

Analyzed By Dishant Patel

End of Report --

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Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1969C/06A/V3/03A

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/1969C/06A/V3/03 Laboratory Representative

Officer Colony No.4 D.W. 4 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

GGMPL/WI/27A

Sealed

27/12/2023

31/12/2023

02/01/2024 10/01/2024

Specification:

Reporting Date: 11/01/2024

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 Lim

Analyzed By Dishant Patel

--- End of Report ---

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

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/V3/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description: Sample Quantity:

Rest House D.W.

Satisfactory

Sample Condition:

4 L

Sampling Date:

27/12/2023 Sample Receipt Date: 31/12/2023 Analysis Start Date: 02/01/2024

Analysis End Date: Sampling Method:

10/01/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

		Later Committee			1621	
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 CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	228.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Lab/PN/1969C/06A/V3/04

Laboratory Representative

Sample Type:

Water

Sample Description:

Rest House D.W.

Sample Quantity:

41

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

27/12/2023

31/12/2023 02/01/2024 10/01/2024 GGMPL/WI/27A

Sealed

Specification:

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

Analyzed By Dishant Patel



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CERTIFICATE OF ANALYSIS

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

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/V3/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Rest House D.W.

Sample Quantity:

4 L

Sample Condition:

Satisfactory

Sampling Date: Sample Receipt Date: 27/12/2023 31/12/2023

Analysis Start Date:

02/01/2024

Analysis End Date: Sampling Method:

10/01/2024 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, BOL=Below Quantification Limit,QL= Quantification Limit

Analyzed By Dishant Patel - End of Report --

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1969C/06A/V3/05

Laboratory Representative

Ambient Air Nr Nagra Plant Ambient Temprature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 27/12/2023 28/12/2023

31/12/2023

02/01/2024-10/01/2024 24

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

Analyzed By Dishant Patel AHMEDABAD PV

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1969C/06A/V3/05 Laboratory Representative

Ambient Air Nr Nagra Plant Ambient Temprature Satisfactory

Sampling Start Date: Sampling End Date:

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

27/12/2023 28/12/2023 31/12/2023

02/01/2024-10/01/2024

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

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

Analyzed By Dishant Patel

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1969C/06A/V3/06 Laboratory Representative

Ambient Air

Nr. Vertical Shaft 1 Ambient Temprature

Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023 31/12/2023

Sample Receipt Date: Analysis start- End Date:

02/01/2024-10/01/2024 24

Total Sampling hours: 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

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

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By:

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

Env. Cond.-Sample Receipt:

Lab/PN/1969C/06A/V3/06

Laboratory Representative Ambient Air Nr. Vertical Shaft 1 Ambient Temprature

Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023

Sample Receipt Date: 31/12, Analysis start- End Date: 02/01,

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

28/12/2023 31/12/2023

02/01/2024-10/01/2024 24

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

Analyzed By Dishant Patel

--- End of Report ---

Authorized Signatory Payal Patel

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 11/01/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1969C/06A/V3/07

Laboratory Representative

Ambient Air Near Workshop Ambient Temprature

Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023 Sample Receipt Date: 31/12/2023

Analysis start- End Date:

02/01/2024-10/01/2024

Total Sampling hours: 24 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

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

Analyzed By Dishant Patel AHMEDABAD PV

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

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

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

Lab/PN/1969C/06A/V3/07 Laboratory Representative Ambient Air Near Workshop Ambient Temprature Env. Cond.-Sample Receipt: Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023 Sample Receipt Date: 31/12/2023 Analysis start- End Date: 02/01/2024-10/01/2024

Total Sampling hours: 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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CERTIFICATE OF ANALYSIS

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

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: Sample Drag

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1969C/06A/V3/08

Laboratory Representative

Ambient Air Near Ukwa Village Ambient Temprature

Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023

Sample Receipt Date:

Analysis start- End Date: 02/0 Total Sampling hours: 24

For a Sampling nours: 24

Env. Cond.-Testing: 25±5°C

31/12/2023 02/01/2024-10/01/2024

24

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

Analyzed By Dishant Patel AHMEDABAD PV

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Page No: 1/2

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CERTIFICATE OF ANALYSIS

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

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

Env. Cond.-Sample Receipt:

Lab/PN/1969C/06A/V3/08 Laboratory Representative Ambient Air Near Ukwa Village Ambient Temprature Satisfactory

 Sampling Start Date:
 27/12/2023

 Sampling End Date:
 28/12/2023

 Sample Receipt Date:
 31/12/2023

 Analysis start- End Date:
 02/01/2024-10/01/2024

 Total Sampling hours:
 24

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

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

Analyzed By Dishant Patel

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 11/01/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

27/12/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1969C/0 6A/V3A	Nr Nagra Plant	Day Time	dB(A)Leq	IS 4758	68.9	-
2	Lab/PN/1969C/0 6A/V3B	Near Vertical Shaft 1	Day Time	dB(A)Leq	IS 4758	70.3	
3	Lab/PN/1969C/0 6A/V3C	Near Workshop	Day Time	dB(A)Leq	IS 4758	69.8	-
4	Lab/PN/1969C/0 6A/V3D	Near Ukwa Village	Day Time	dB(A)Leq	IS 4758	59.9	

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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



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1970C/06B/V3/01

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Description:

Sample Quantity:

Sample Condition:

Vertical shaff-II Open Dug well (GW)

3.5L Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

27/12/2023

31/12/2023 02/01/2024

11/01/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.33	 0	IS 3025-Part 11	6.5 - 8.5	No relaxation
2	Alkalinity as CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	336.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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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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



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1970C/06B/V3/01 Laboratory Representative Sampling Date: Sample Receipt Date: 27/12/2023 31/12/2023

Sample Type:

Water

Analysis Start Date:
Analysis End Date:

02/01/2024 11/01/2024

Sample Description: Sample Quantity: Vertical shaff-II Open Dug well (GW) 3.5L

Sampling Method:

GGMPL/WI/27A

Sample Quantity: 3.5

3.5L Samp Satisfactory Packi

ng: Seal

GMPL/WI

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

Analyzed By Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

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

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

Sample Drawn By:

Water

Sample Type: Sample Description:

Vertical shaff-II Open Dug well (GW)

Sample Quantity:

Sample Condition:

Laboratory Representative

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

27/12/2023

31/12/2023 02/01/2024 11/01/2024

GGMPL/WI/27A

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

Analyzed By Gyanvati Shukla

--- End of Report ---

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AHMEDABAD

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/1970C/06B/V3/02

Laboratory Representative Waste Water STP Outlet (WW)

3.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: Packing:

27/12/2023

31/12/2023 02/01/2024 11/01/2024

GGMPL/WI/27A

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 o 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

End of Report ---

AHMEDABAD

Authorized Signatory Payal Patel

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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

Waste Water

Sample Type: Sample Description:

ETP Outlet(WW)

Sample Quantity: Sample Condition: 3.5 L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

27/12/2023 31/12/2023

02/01/2024 11/01/2024

GGMPL/WI/27A

	Packing:
--	----------

Caal	00
Seal	eu

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.58	E)	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 o 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

--- End of Report ---

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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:

Sample Drawn By: Sample Type:

Lab/PN/1970C/06B/V3/04 Laboratory Representative Waste Water

Sample Description:

Mine Seapage Water (WW)

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

27/12/2023 31/12/2023

02/01/2024 11/01/2024

GGMPL/WI/27A

Pac	king:	Seale	ed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1 pH at	25 °C	7.22	-	IS 3025- Part 11	-

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 o 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 Gyanvati Shukla

- End of Report ---

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1970C/06B/V3/05

Laboratory Representative

Ambient Air

Near Vertical shaff- II Ambient temperature Satisfactory

Sampling Start Date:

27/12/2023 Sampling End Date: 28/12/2023 Sample Receipt Date: 31/12/2023 Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

02/01/2024-11/01/2024

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

Analyzed By Gyanvati Shukla Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 12/01/2024



25±5°C

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1970C/06B/V3/05 Laboratory Representative Ambient Air Near Vertical shaff- II Ambient temperature Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023 Sample Receipt Date: 31/12/2023 Analysis start- End Date: 02/01/2024-11/01/2024 Total Sampling hours: 24

Env. Cond.-Testing:

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

Analyzed By Gyanvati Shukla AHMEDAB End of Report ---

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1970C/06B/V3/06 Laboratory Representative

Ambient Air

Near Electrical Substation Ambient temperature

Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023 Sample Receipt Date:

Analysis start- End Date:

31/12/2023 02/01/2024-11/01/2024

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

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

Analyzed By Gyanvati Shukla

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CERTIFICATE OF ANALYSIS

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

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

Lab/PN/1970C/06B/V3/06 Laboratory Representative Ambient Air Near Electrical Substation Ambient temperature Satisfactory

 Sampling Start Date:
 27/12/2023

 Sampling End Date:
 28/12/2023

 Sample Receipt Date:
 31/12/2023

 Analysis start- End Date:
 02/01/2024-11/01/2024

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

Analyzed By Gyanvati Shukla AHMEDABAD & AHMEDA

Authorized Signatory Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1970C/06B/V3/07

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: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1970C/06B/V3/07

Laboratory Representative Ambient Air

Near Admin Building Ambient temperature

Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

02/01/2024-11/01/2024

25±5°C

31/12/2023

Sr.No	Parameters 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

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/V3/07

M/s Moil Limited

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

Reporting Date: 12/01/2024



25±5°C

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Wind Speed

Lab/PN/1970C/06B/V3/07 Laboratory Representative Ambient Air Near Admin Building Ambient temperature

Satisfactory

 Sampling Start Date:
 27/12/2023

 Sampling End Date:
 28/12/2023

 Sample Receipt Date:
 31/12/2023

 Analysis start- End Date:
 02/01/2024-11/01/2024

 Total Sampling hours:
 24

Env. Cond.-Testing:

GGMPL/SOP/MP/01:2020

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

m/s

3.7

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

Analyzed By Gyanvati Shukla --- End of Report ---

CHAN

AHMEDAR

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Page No: 2/2

NS

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1970C/06B/V3/08

Laboratory Representative

Ambient Air

Near Weigh Bridge Ambient temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

27/12/2023 28/12/2023 31/12/2023

02/01/2024-11/01/2024

24 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 AHMEDABAD P

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1970C/06B/V3/08 Laboratory Representative Ambient Air

Ambient temperature Satisfactory

Near Weigh Bridge

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023 Sample Receipt Date: 31/12/2023

Analysis start- End Date: Total Sampling hours:

02/01/2024-11/01/2024

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

Analyzed By Gyanvati Shukla 9 *

End of Report ---

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1970C/06B/V3/09

M/s Moil Limited

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

Reporting Date: 12/01/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

27/12/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1970C/0 6B/V3/09A	Near Vertial Shaft II	Day Time	dB(A)Leq	IS 4758	70.8	-
2	Lab/PN/1970C/0 6B/V3/09B	Near Compressor House II	Day Time	dB(A)Leq	IS 4758	73.5	
3		Near Jack Hammer Drill(1650 level)	Day Time	dB(A)Leq	IS 4758	71.4	
4	Lab/PN/1970C/0 6B/V3/09D	Near Dumper loaded at workshop	Day Time	dB(A)Leq	IS 4758	70.2	

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

Analyzed By Gyanvati Shukla End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 09/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Type:

Sample Condition:

Sample Drawn By:

Lab/PN/1971C/06C/V3/01 Laboratory Representative

Sampling Date: Sample Receipt Date: 27/12/2023 31/12/2023

Analysis Start Date: Analysis End Date:

02/01/2024

Sample Description: Chindi Tola Village Open Dugwell (GW) Sample Quantity:

3.5 L

Satisfactory

Sampling Method:

08/01/2024 GGMPL/WI/27A

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 CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	235.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

Analyzed By Priyanka Shrimali

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PBPL

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

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:

Sample Drawn By: Sample Type:

Sample Description:

Sample Condition:

Sample Quantity:

Chindi Tola Village Open Dugwell (GW) 3.5 L

Satisfactory

Water

Lab/PN/1971C/06C/V3/01

Laboratory Representative

Sampling Date:

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

Sampling Method: Packing:

02/01/2024 08/01/2024 GGMPL/WI/27A

27/12/2023

31/12/2023

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

Priyanka Shrimali

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

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/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description: Sample Quantity:

3.5 L

Sample Condition:

Chindi Tola Village Open Dugwell (GW)

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

27/12/2023

31/12/2023 02/01/2024 08/01/2024

GGMPL/WI/27A

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

Priyanka Shrimali

End of Report

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CERTIFICATE OF ANALYSIS

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

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/V3/02

27/12/2023 Sample Receipt Date:

Sample Drawn By: Sample Type:

Laboratory Representative

31/12/2023 02/01/2024

Sample Description:

Dugwell near pit office (GW)

Analysis Start Date: Analysis End Date:

08/01/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Method:

Sampling Date:

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 CaCO3	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	e Agreeable
9	Sulphate	21.38	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	206.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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

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/V3/02

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/V3/02 Laboratory Representative

Sample Drawn By: Sample Type:

Water

Sample Description:

Dugwell near pit office (GW)

3.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

27/12/2023 Sample Receipt Date: 31/12/2023 Analysis Start Date: 02/01/2024

Analysis End Date: Sampling Method:

08/01/2024 GGMPL/WI/27A

Sealed

Packing:

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

Priyanka Shrimali

End of Report -

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CERTIFICATE OF ANALYSIS

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

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/V3/02

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Description:

Dugwell near pit office (GW)

Sample Quantity: Sample Condition:

3.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

08/01/2024 GGMPL/WI/27A

27/12/2023

31/12/2023

02/01/2024

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

Priyanka Shrimali

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Page No: 1/1

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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: Sample Drawn By:

Lab/PN/1971C/06C/V3/03 Laboratory Representative

Water

Sample Type: Sample Description: Sample Quantity:

Sample Condition:

Dugwell near Haul Road 2

3.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: Packing:

08/01/2024 GGMPL/WI/27A

Sealed

27/12/2023

31/12/2023

02/01/2024

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 CaCO3	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 SO4 E	200	400
10	Total Dissolved Solids	196.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	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 Shrimali



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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



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Description:

Sample Type:

Lab/PN/1971C/06C/V3/03 Laboratory Representative

ry Representative

Dugwell near Haul Road 2 3.5 L

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: 08/01/2024
Sampling Method: GGMPL/WI/27A

Packing: Sealed

Specification:

Sr.N	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

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

Analyzed By Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

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

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:

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Dugwell near Haul Road 2

Sample Quantity: Sample Condition: 3.5 L Satisfactory

Lab/PN/1971C/06C/V3/03

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: Packing:

31/12/2023 02/01/2024 08/01/2024 GGMPL/WI/27A

27/12/2023

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

Analyzed By Priyanka Shrimali

- End of Report ---

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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: Sample Receipt Date: 27/12/2023 31/12/2023

Sample Drawn By: Sample Type:

Laboratory Representative Waste Water

Analysis Start Date: Analysis End Date:

02/01/2024 08/01/2024

Sample Description: Sample Quantity:

Sample Condition:

Near Mine seapage vertical 2 3.5 L

Sampling Method:

GGMPL/WI/27A

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 o C for 3 days	19.33	mg/L	IS 3025- Part 44	- 17 17 10
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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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 09/01/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1971C/06C/V3/05 Laboratory Representative

Ambient Air

Near Chindi tola Village Ambient Temperature Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

27/12/2023 28/12/2023 31/12/2023

31/12/2023 02/01/2024-08/01/2024

24 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

Analyzed By Priyanka Shrimali HMEDABAD W

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1971C/06C/V3/05 Laboratory Representative

Ambient Air

Near Chindi tola Village Ambient Temperature

Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023 Sample Receipt Date: 31/12/2023

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

02/01/2024-08/01/2024

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 Li

Analyzed By Priyanka Shrimali

- End of Report ---

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1971C/06C/V3/06

Laboratory Representative Ambient Air

Near Haul Road Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

28/12/2023 31/12/2023 02/01/2024-08/01/2024

27/12/2023

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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CERTIFICATE OF ANALYSIS

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

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

Env. Cond.-Sample Receipt:

Lab/PN/1971C/06C/V3/06 Laboratory Representative

Ambient Air Near Haul Road Ambient Temperature Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023 Sample Receipt Date: 31/12/2023

Analysis start- End Date: Total Sampling hours:

02/01/2024-08/01/2024

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,QL=

Analyzed By Priyanka Shrimali AHMEDABAD 9 *

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CERTIFICATE OF ANALYSIS

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

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: Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling:

Lab/PN/1971C/06C/V3/07 Laboratory Representative

Ambient Air

Ambient Temperature

Near Explosive Magazine

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

31/12/2023

02/01/2024-08/01/2024

	· ····································	recar camping nearer	
Env. CondSample Receipt:	Satisfactory	Env. CondTesting:	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

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CERTIFICATE OF ANALYSIS

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

Daramotoro

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

Cr No

Lab/PN/1971C/06C/V3/07 Laboratory Representative Ambient Air Near Explosive Magazine Ambient Temperature Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023 Sample Receipt Date: 31/12/2023 Analysis start- End Date: 02/01/2024-08/01/2024 Total Sampling hours: 24

Env. Cond.-Testing: 25±5°C

هند	NAAQ Standards
	NS
	NS

31.140	raidiffeters	Results	UIIIL	Test Metriod	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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NS=Not Specified, BQL=Below Quantification Limit,QL= Quantification Limit

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 09/01/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1971C/06C/V3/08

Laboratory Representative

Ambient Air

Near New Mine Colony Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Env. Cond.-Testing:

Total Sampling hours:

27/12/2023 28/12/2023 31/12/2023

02/01/2024-08/01/2024

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

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

Lab/PN/1971C/06C/V3/08 Laboratory Representative Ambient Air Near New Mine Colony Ambient Temperature Satisfactory

Sampling Start Date: 27/12/2023 Sampling End Date: 28/12/2023 Sample Receipt Date: 31/12/2023 Analysis start- End Date: 02/01/2024-08/01/2024 24

Total Sampling hours: 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= Quantific

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date: 09/01/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory representative

Sampling Date:

Sample Description:

27/12/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1971C/0 6C/V3/09A	Near Chindi Tola Village	Day time	dB(A)Leq	IS 4758	56.8	-
2	Lab/PN/1971C/0 6C/V3/09B	Near pit office -2 vertical shaft	Day time	dB(A)Leq	IS 4758	65.9	
3	Lab/PN/1971C/0 6C/V3/09C	Near vertical fan	Day time	dB(A)Leq	IS 4758	67.8	-
4	Lab/PN/1971C/0 6C/V3/09D	Near haul road	Day time	dB(A)Leq	IS 4758	60.3	

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

Analyzed By Priyanka Shrimali

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