

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

Mobile No: 191 7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/01

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1170C/06A/V2/01

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Mine office D.W.

Sample Quantity:

5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 07/09/2023

11/09/2023 20/09/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	6.86	=	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	82.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	21.64	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	17.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.13	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	9.96	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	11.18	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	217.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	95.0	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 Rajat Chauhan



Authorized Signatory Manish Kumawat

Page No: 1/2

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SAMPLE DETAILS

Lab ID:

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Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Mine office D.W.

Sample Quantity:

5 L Satisfactory

Sample Condition:

Samp

Sampling Date: Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

07/09/2023

10/09/2023 11/09/2023 20/09/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.9	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	1.12	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500

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

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Analyzed By Rajat Chauhan



Authorized Signatory Manish Kumawat

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M/s Moil Limited

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

Reporting Date: 21/09/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1170C/06A/V2/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Mine office D.W.

Sample Quantity:

5 L

Sample Condition:

Satisfactory

Sampling Date:

07/09/2023

Sample Receipt Date:

10/09/2023

Analysis Start Date: Analysis End Date:

11/09/2023

Sampling Method:

20/09/2023 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

Analyzed By Rajat Chauhan



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M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1170C/06A/V2/02

Sampling Date:

07/09/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

10/09/2023 11/09/2023

Sample Type: Sample Description:

New Mine colony pump house G.W.

Analysis Start Date: Analysis End Date:

20/09/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition: 5 L

Satisfactory

Sampling Method:

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.22	m:	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	78.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	22.44	mg/L	APHA 23rd Edn 3500 Ca B	70	200
4	Chloride	18.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.16	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	12.63600	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	15.17	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	226.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	108.0	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 and PL as Per IS 10500

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

Analyzed By Rajat Chauhan



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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1170C/06A/V2/02

07/09/2023 10/09/2023

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Receipt Date: Analysis Start Date: 11/09/2023

20/09/2023

Sample Description: Sample Quantity:

New Mine colony pump house G.W.

Analysis End Date: Sampling Method:

Sampling Date:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	1.72	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL and PL as Per IS 10500

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

Analyzed By Rajat Chauhan



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Reporting Date: 21/09/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1170C/06A/V2/02

Sample Drawn By:

Sample Type:

Sample Description:

New Mine colony pump house G.W.

Sample Quantity:

5 L

Sample Condition:

Laboratory Representative

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

07/09/2023

10/09/2023 11/09/2023

20/09/2023 GGMPL/WI/27A

Sealed

Specification:

			Unit	Test Method	AL	PL
1 Tot	al Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2 E.C	oli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL and PL as Per IS 10500

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

Analyzed By Rajat Chauhan



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M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Lab/PN/1170C/06A/V2/03 Laboratory Representative

Sample Description: Sample Quantity:

Officer Colony No.4 D.W.

5 L

Sample Condition:

Satisfactory

Sampling Date:

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

Sampling Method: Packing:

GGMPL/WI/27A

07/09/2023

10/09/2023

11/09/2023

20/09/2023

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.32	-)	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	82.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	33.67	mg/L	APHA 23rd Edn 3500 Ca B	70	200
4	Chloride	18.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.27	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	16.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	18.56	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	242.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	152.0	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 and PL as Per IS 10500

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

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M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/1170C/06A/V2/03

Laboratory Representative

Sample Description:

Sample Type:

Officer Colony No.4 D.W.

Sample Quantity: 5 L

Sample Condition:

Satisfactory

Sampling Date:

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

Sampling Method: Packing:

07/09/2023

10/09/2023 11/09/2023 20/09/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	0.88	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL and PL as Per IS 10500

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

Analyzed By Rajat Chauhan



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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/03A

M/s Moil Limited

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

Reporting Date: 21/09/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1170C/06A/V2/03

Sample Drawn Dy.

Laboratory Representative

Sample Type:

Sample Description:

Officer Colony No.4 D.W.

Sample Quantity:

5 L

Sample Condition

Satisfactory

Sampling Date:

07/09/2023

Sample Receipt Date. Analysis Start Date:

10/09/2023 11/09/2023

Analysis End Date:

20/09/2023

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	ΛL	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 and PL as Per IS 10500

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

Analyzed By Rajat Chauhan



Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/04

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-707

SAMPLE DETAILS

Lab ID:

Lab/PN/1170C/06A/V2/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Rest House D.W.

Satisfactory

Sample Quantity:

5 L

Sample Condition:

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

07/09/2023

10/09/2023 11/09/2023

20/09/2023 GGMPL/WI/27A

Sealed

Specification:

					- 1	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.19	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	76.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	24.85	mg/L	APHA 23rd Edn 3500 Ca B	70	200
4	Chloride	15.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.19	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.74	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	21.36	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	222.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	135.0	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 and PL as Per IS 10500

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

T F

Analyzed By Rajat Chauhan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/04

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1170C/06A/V2/04

07/09/2023 Sample Receipt Date:

Sample Drawn By:

Laboratory Representative

10/09/2023

Sample Type: Sample Description:

Rest House D.W.

11/09/2023 20/09/2023

Sample Quantity:

5 L

Analysis End Date:

Sample Condition: Satisfactory Sampling Method:

Analysis Start Date:

Sampling Date:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	1.76	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL and PL as Per IS 10500

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

Analyzed By Rajat Chauhan



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/04A

M/s Moil Limited

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

Reporting Date: 21/09/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1170C/06A/V2/04

Laboratory Representative

Sample Type: Sample Description: Water

Rest House D.W.

Satisfactory

Sample Quantity: Sample Condition:

Sample Drawn By:

5 L

Sampling Date:

07/09/2023

Sample Receipt Date: Analysis Start Date:

10/09/2023 11/09/2023

Analysis End Date: Sampling Method:

20/09/2023 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 and PL as Per IS 10500

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

Analyzed By

Rajat Chauhan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/05

M/s Moil Limited

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

Reporting Date: 21/09/2023



11/09/2023-20/09/2023

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1170C/06A/V2/05

Laboratory Representative

Ambient Air Nr Nagra Plant

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

24

07/09/2023

08/09/2023

10/09/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.10	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.49	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.09	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.97	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.80	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Rajat Chauhan



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/05

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond. Sample Receipt: Lab/PN/1170C/06A/V2/05 Laboratory Representative

Ambient Air Nr Nagra Plant Ambient Temperature

Satisfactory

Sampling Start Date: 07/09/2023 Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: Env. Cond.-Testing:

08/09/2023 10/09/2023

25±5°C

11/09/2023-20/09/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQI (QI =0 001)	Jig/m3	IISEPA Method IO 3 4	1
15	Wind Speed	5.74	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Rajat Chauhan

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/06

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1170C/06A/V2/06

Ambient Air Nr. Vertical Shaft Ambient Temperature

Laboratory Representative Sample Receipt Date:

Sallsfactury

07/09/2023 Sampling Start Date: Sampling End Date: 08/09/2023 10/09/2023

Analysis start- End Date: 11/09/2023-20/09/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.59	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.89	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.52	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.03	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.80	µg/Nm3	GGMPL/SOP/\\/\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)	1.13	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Rajat Chauhan

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/06

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1170C/06A/V2/06 Laboratory Representative

Ambient Air Nr. Vertical Shaft Ambient Temperature Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date: 07/09/2023 08/09/2023 10/09/2023 11/09/2023-20/09/2023

Total Sampling hours:	24
Env. CondTesting:	25±5°C

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

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

Analyzed By Rajat Chauhan

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/07

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1170C/06A/V2/07

Laboratory Representative

Ambient Air Near Workshop Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

07/09/2023

08/09/2023 10/09/2023

11/09/2023-20/09/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.52	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	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)	17.05	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.03	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.80	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	· NS

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

Analyzed By Rajat Chauhan



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/07

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1170C/06A/V2/07 Laboratory Representative

Ambient Air Near Workshop Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 07/09/2023 08/09/2023 10/09/2023

11/09/2023-20/09/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.74	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Rajat Chauhan

AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/08

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1170C/06A/V2/08 Laboratory Representative

Ambient Air Near Ukwa Village Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

08/09/2023 10/09/2023 11/09/2023-20/09/2023

07/09/2023

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

11/09/2023-20/09/2023 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.06	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.77	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.09	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.25	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

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Analyzed By Rajat Chauhan



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/08

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1170C/06A/V2/08

Laboratory Representative Ambient Air

Near Ukwa Village Ambient Temperature Satisfactory Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours: 08/09/2023 10/09/2023

07/09/2023

11/09/2023-20/09/2023

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

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

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

Analyzed By Rajat Chauhan AHMEDABAD PV

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/09

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

07/09/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1170C/0 6A/V2/09A	Nr Nagra Plant	Day Time	dB(A)Lcq	IS 4758	66.5	75
2	Lab/PN/1170C/0 6A/V2/09B	Near Vertical shaft	Day Time	dB(A)Leq	IS 4758	69.8	75
3	Lab/PN/1170C/0 6A/V2/09C	Near workshop	Day Time	dB(A)Leq	IS 4758	70.1	75
4	Lab/PN/1170C/0 6A/V2/09D	Near Ukwa Village	Day Time	dB(A)Leq	IS 4758	61.2	75

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

Analyzed By Rajat Chauhan



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/01

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1171C/06B/V2/01

Sampling Date:

07/09/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

10/09/2023 10/09/2023

Sample Type:

Waste Water Mine Seapage Water (WW)

Analysis Start Date: Analysis End Date: Sampling Method:

20/09/2023 GGMPL/WI/27A

Sample Description: Sample Quantity:

Packing:

Sealed

Sample Condition:

Satisfactory

Sr.No	Parameters Parameters	Results	Unit	Test Method	Norm
-1	pH at 25 °C	7.46	-	IS 3025- Part 11	-
2	Total Suspended Solids	28.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	3.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	17	mg/L	IS 3025- Part 44	
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By Kinjal Damor HAN

Authorized Signatory Manish Kumawat

Page No: 1/1

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Report Number: GGMPL/PN/1171C/06B/V2/02

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1171C/06B/V2/02

Sample Drawn By:

Laboratory Representative

Waste Water

Sample Type: Sample Description:

STP Outlet (WW)

Sample Quantity:

6L

Sample Condition:

Satisfactory

Sampling Date:

pling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method: 20/09/2023 GGMPL/WI/27A

07/09/2023

10/09/2023

10/09/2023

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.45	:=	IS 3025- Part 11	6.5-9.0
2	Total Suspended Solids	28.00	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	60.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	4.00	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	26.00	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	0.0	mg/L	APHA 23rd Edn 3120 B	NS

Norms as per CCA

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

Analyzed By Kinjal Damor AHMEDABAD PP

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/1171C/06B/V2/03

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1171C/06B/V2/03

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description: Waste Water ETP Outlet (WW)

Sample Quantity:

6L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

07/09/2023

10/09/2023

10/09/2023 20/09/2023

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.56	-	IS 3025- Part 11	5.5-9.0
2	Total Suspended Solids	28.00	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	80.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	2.90	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	23	mg/L	IS 3025- Part 44	30
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	NS

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

Analyzed By Kinjal Damor AHMEDABAD PY

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/04

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:

Lab/PN/1171C/06B/V2/04

Sampling Date:

07/09/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

10/09/2023 10/09/2023

Sample Type:

Waste Water

Analysis Start Date:

20/09/2023

Sample Description:

Vertical Shaft II open Dugwell (DW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

						peemeacioni
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.23	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	104.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	25.65	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	57.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.22	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	23.08	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	15.26	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	220.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	49.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/04

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1171C/06B/V2/04 Laboratory Representative

Waste Water

Sample Type: Sample Description:

Vertical Shaft II open Dugwell (DW)

Sample Quantity:

Satisfactory

Sample Condition:

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

20/09/2023 GGMPL/WI/27A

07/09/2023

10/09/2023

10/09/2023

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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 reaction
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.51	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

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







Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/04A

M/s Moil Limited

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

Reporting Date: 21/09/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1171C/06B/V2/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

Vertical Shaft II open Dugwell (DW)

Sample Quantity:

Sample Condition:

Satisfactory

Sample Receipt Date: Analysis Start Date:

Sampling Date:

Analysis End Date: Sampling Method:

10/09/2023 20/09/2023 GGMPL/WI/27A

07/09/2023

10/09/2023

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

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

Analyzed By Kinjal Damor HAN

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/05

M/s Moil Limited

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

Reporting Date: 22/09/2023



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1171C/06B/V2/05 Laboratory Representative Ambient Air Near Vertical Shaft II

Ambient Temperature Laboratory Representative Sampling Start Date: 07/09/2023 Sampling End Date: 08/09/2023 Sample Receipt Date: 10/09/2023

Analysis start- End Date: 11/09/2023-21/09/2023Total Sampling hours: 24 Env. Cond.-Testing: $25\pm5^{\circ}$ C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.85	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.45	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.75	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	6.08	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	0.00231	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	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
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Kinjal Damor AHMEDABAD O * CITY

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/05

M/s Moil Limited

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

Reporting Date: 22/09/2023



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1171C/06B/V2/05 Laboratory Representative Ambient Air Near Vertical Shaft II Ambient Temperature Laboratory Representative

 Sampling Start Date:
 07/09/2023

 Sampling End Date:
 08/09/2023

 Sample Receipt Date:
 10/09/2023

 Analysis start- End Date:
 11/09/2023-21/09/2023

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

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

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

Analyzed By Kinjal Damor AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/06

M/s Moil Limited

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

Reporting Date: 22/09/2023



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1171C/06B/V2/06

Laboratory Representative

Ambient Air **Near Substation**

Ambient Temperature Laboratory Representative Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

USEPA Method IO 3.4

GGMPL/SOP/MP/01

10/09/2023 11/09/2023-21/09/2023

07/09/2023

08/09/2023

24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.87	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.49	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.51	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.73	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.21	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20

ng/m3

°C

BQL (QL=1)

31

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/2

NS

11

Arsenic as As

Temperature

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/06

M/s Moil Limited

Ilkwa Manganese Mines I 2=69 581 Ha Site Dist Ralaghat (M.P.)

Reporting Date: 22/09/2023



TC-7073

SAMPLE DETAILS

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

Wind Speed

15

Lab/PN/11/1C/06B/V2/06 Laboratory Representative Ambient Air Near Substation Ambient Temperature Laboratory Representative Sampling Start Date: 07/09/2023
Sampling End Date: 08/09/2023
Sample Receipt Date: 10/09/2023
Analysis start- End Date: 11/09/2023
Total Sampling hours: 24

Env. Cond.-Testing:

GGMPL/SOP/MP/01:2020

11/09/2023-21/09/2023 24

NS

25±5°C

Sr.No **Parameters** Results Unit Test Method NAAQ Standards Rolativo Humidity 13 50 20 GGMPL/SOP/MP/01 N3 14 Lead BQL (QL-0.001) ид/т3 USEI'A Method IO 3.1 1

m/s

5.72

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

Analyzed By Kinjal Damor ECHANGS PV

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/07

M/s Moil Limited

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

Reporting Date: 22/09/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1171C/06B/V2/07

Laboratory Representative

Ambient Air

Near Admin Building Ambient Temperature Laboratory Representative Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

07/09/2023 08/09/2023

10/09/2023

11/09/2023-21/09/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.34	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.99	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.51941	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.92	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	DQL (QL-10)	Luy/m3	I3 5182- Pail 9	100
6	Ammonia (NH3)	5.50	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
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS.

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

Analyzed By Kinjal Damor AHMEDABAD PV7

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/07

M/s Moil Limited

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

Reporting Date: 22/09/2023



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1171C/06B/V2/07 Laboratory Representative Ambient Air Near Admin Building Ambient Temperature Laboratory Representative

 Sampling Start Date:
 07/09/2023

 Sampling End Date:
 08/09/2023

 Sample Receipt Date:
 10/09/2023

 Analysis start- End Date:
 11/09/2023-21/09/2023

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

24

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

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

Analyzed By Kinjal Damor CHANGS AHMEDABAD PY

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/08

M/s Moil Limited

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

Reporting Date: 22/09/2023



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1171C/06B/V2/08 Laboratory Representative Ambient Air Near Weigh Bridge Ambient Temperature Laboratory Representative

Sampling Start Date: 07/09/2023 Sampling End Date: 08/09/2023 Sample Receipt Date: Analysis start- End Date:

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

10/09/2023

11/09/2023-21/09/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.72	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.07	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.63	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.09	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.21	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
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/08

M/s Moil Limited

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

Reporting Date: 22/09/2023



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1171C/06B/V2/08 Laboratory Representative Ambient Air Near Weigh Bridge Ambient Temperature Laboratory Representative

 Sampling Start Date:
 07/09/2023

 Sampling End Date:
 08/09/2023

 Sample Receipt Date:
 10/09/2023

 Analysis start- End Date:
 11/09/2023-21/09/2023

 Total Sampling bours:
 24

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

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

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

Analyzed By Kinjal Damor AHMEDABAD VI

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1171C/06B/V2/09

M/s Moil Limited

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

Reporting Date: 22/09/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

07/09/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1171C/0 6B/V2/09A	Near Vertical Shaft II	Day Time	dB(A)Leq	IS 4758	56.5	75
2	Lab/PN/1171C/0 6B/V2/09B	Compressor House II	Day Time	dB(A)Leq	IS 4758	58.8	75
3	Lab/PN/1171C/0 6B/V2/09C	Nr Jack Hammer Drill (1650 level)	Day Time	dB(A)Leq	IS 4758	57.3	75
4	Lab/PN/1171C/0 6B/V2/09D	Dumper loaded at workshop	Day Time	dB(A)Leq	IS 4758	55.9	75

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

Kinjal Damor

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/01

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-707

SAMPLE DETAILS

Lab ID: Lab/PN/1172C/06C/V2/01
Sample Drawn By: Laboratory Representative

Sample Type: Water

Sample Description: Chindi Tola Village Open Dugwell (GW)

Sample Quantity: 5 L

Sample Condition: Satisfactory

Sampling Date: 07/09/2023

Sample Receipt Date: 10/09/2023

Analysis Start Date: 11/09/2023

Analysis End Date: 20/09/2023

Sampling Method: GGMPL/WI/27A

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.20	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	100.00	mg/L	APHA 23rd Edn 2320 B	100	600
3	Calcium as Ca	26.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	12.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.13	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	14.09	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	19.56	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	178	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	124	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 Sachi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/01

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/1172C/06C/V2/01

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Chindi Tola Village Open Dugwell (GW)

5 L

Sample Ouantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

07/09/2023

10/09/2023 11/09/2023 20/09/2023

20/09/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.00	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	1.32	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as per IS 10500

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

Analyzed By

Sachi Patel

AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/01A

M/s Moil Limited

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

Reporting Date: 21/09/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1172C/06C/V2/01

Laboratory Representative

Sample Drawn By:

Sample Type: Sample Description:

Chindi Tola Village Open Dugwell (GW)

Sample Quantity: Sample Condition:

5 L

Satisfactory

Sampling Date:

07/09/2023

Sample Receipt Date:

10/09/2023

Analysis Start Date: Analysis End Date:

11/09/2023 20/09/2023

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

Sachi Patel



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/02

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1172C/06C/V2/02 Laboratory Representative 07/09/2023 10/09/2023

Sample Drawn By: Sample Type:

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

11/09/2023 20/09/2023

Sample Description:

Dugwell near pit office (GW)

Sampling Method:

GGMPL/WI/27A

Sample Quantity:

5 L

Packing:

Sampling Date:

Sample Condition:

Satisfactory

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.20	- 2	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	84.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	18.43	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	11.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.16	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.49	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	14.97	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	162	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	118	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 Sachi Patel



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/02

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1172C/06C/V2/02 Laboratory Representative Sampling Date: Sample Receipt Date: 07/09/2023 10/09/2023

Sample Type:

Analysis Start Date: 11/09/2023 Analysis End Date: Sampling Method:

Sample Description: Sample Quantity:

Dugwell near pit office (GW) 5 L

20/09/2023 GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	2.77	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 Sachi Patel



Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/02A

M/s Moil Limited

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

Reporting Date: 21/09/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1172C/06C/V2/02 Laboratory Representative Sampling Date: Sample Receipt Date: 07/09/2023

Sample Drawn By:

Analysis Start Date:

10/09/2023 11/09/2023

Sample Type: Sample Description:

Dugwell near pit office (GW)

Analysis End Date:

20/09/2023

Sample Quantity:

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

Analyzed By

Sachi Patel

AHMEDABAD

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/03

M/s Moil Limited

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

Reporting Date: 21/09/2023



11/09/2023

20/09/2023

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/1172C/06C/V2/03

Laboratory Representative

Dugwell near pit Haul Road 2 5 L

Satisfactory

Sampling Date: 07/09/2023 Sample Receipt Date: 10/09/2023

Analysis Start Date: Analysis End Date:

Sampling Method: GGMPL/WI/27A

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.38	~	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	104.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	21.01	mg/L	API IA 23rd Edn 3500 Ca D	75	200
4	Chloride	13.99	mg/L	IS 3025 -Part 32	250	1000
5	Culuui	BQL (QL=1)	CU	IS 3025 Parl=4	5	15
6	Fluoride (F)	0.19	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	18.46	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	6.98	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	170.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	138.00	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 Sachi Patel



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/03

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-707

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1172C/06C/V2/03 Laboratory Representative

Water

Sample Description:

Sample Type:

Dugwell near pit Haul Road 2

5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

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

Sampling Method:

Packing:

07/09/2023

10/09/2023 11/09/2023 20/09/2023

20/09/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2.0	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	2.98	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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Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/03A

M/s Moil Limited

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

Reporting Date: 21/09/2023

SAMPLE DETAILS

Lab ID:

Lab/PN/1172C/06C/V2/03

07/09/2023

Sample Drawn By:

Laboratory Representative

10/09/2023

Sample Type:

11/09/2023

Sample Description:

Dugwell near pit Haul Road 2

Analysis Start Date: Analysis End Date:

20/09/2023 GGMPL/WI/27A

Sample Quantity:

5 L

Sampling Method:

Sampling Date:

Sample Receipt Date:

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 Sachi Patel

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/04

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Lab ID:

Lab/PN/1172C/06C/V2/04 Laboratory Representative

Near Mine seapage vertical Shaft

07/09/2023

Sample Drawn By: Sample Type:

Waste Water

Sample Receipt Date: 10/09/2023 Analysis Start Date: 11/09/2023 Analysis End Date:

20/09/2023 GGMPL/WI/27A

Sample Description: Sample Quantity:

4.5 L

Sampling Method: Packing:

Sampling Date:

Sealed

Sample Condition:

Salisfactory

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.20	-	IS 3025- Part 11	-
2	Total Suspended Solids	22	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	50	mg/L	APHA 23rd Edn 5220 B	- 1
5	Dissolved Oxygen	3.70	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	18.66	mg/L	IS 3025- Part 44	
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By Sachi Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/05

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1172C/06C/V2/05 Laboratory Representative

Ambient Air

Near Chindi tola Village Ambient temperature Satisfactory

Sampling Start Date: 07/09/2023 Sampling End Date: 08/09/2023 10/09/2023

Sample Receipt Date: Analysis start- End Date: 11/09/2023-20/09/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.84	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)	11.66	µд/т3	IS 5182-Part 2	80
1	Nitrogen Dioxide (NO2)	18.08	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.42	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
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/05

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1172C/06C/V2/05

Laboratory Representative

Ambient Air

Near Chindi tola Village Ambient temperature

Satisfactory

Sampling Start Date: 07/09/2023 Sampling End Date: 08/09/2023

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: 24 Env. Cond.-Testing: 25

08/09/2023 10/09/2023

11/09/2023-20/09/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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	5	m/s	GGMPL/SOP/MP/01:2020	

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

Sachi

Analyzed By Sachi Patel



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/06

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1172C/06C/V2/06 Laboratory Representative Ambient Air Near Haul Road Ambient temperature Satisfactory

 Sampling Start Date:
 07/09/2023

 Sampling End Date:
 08/09/2023

 Sample Receipt Date:
 10/09/2023

 Analysis start- End Date:
 11/09/2023-20/09/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.27	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.03	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.62	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	6.95	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)	1.13	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

Sachi

Analyzed By Sachi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/06

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1172C/06C/V2/06

Laboratory Representative Ambient Air Near Haul Road Ambient temperature

Satisfactory

Sampling Start Date: 07/09/2023 08/09/2023 Sampling End Date: Sample Receipt Date: 10/09/2023

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

11/09/2023-20/09/2023

25±5°C

13 Relative Humidity 57 % GGMPL/SOP/MP/01	NC
	NS
14 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4	1
15 Wind Speed 5.74 m/s GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Sachi Patel

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/07

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1172C/06C/V2/07 Laboratory Representative Ambient Air Near Explosive Magazine Ambient temperature

Satisfactory

 Sampling Start Date:
 07/09/2023

 Sampling End Date:
 08/09/2023

 Sample Receipt Date:
 10/09/2023

 Analysis start- End Date:
 11/09/2023-20/09/2023

 Total Sampling hours:
 24

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	56.11	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.41	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.01	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.77	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.69	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)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

Sachi

Analyzed By Sachi Patel



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/07

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1172C/06C/V2/07 Laboratory Representative

Ambient Air

Near Explosive Magazine Ambient temperature

Satisfactory

Sampling Start Date: 07/09/2023 Sampling End Date: 08/09/2023 Sample Receipt Date: 10/09/2023

Analysis start- End Date: 11/09/2023-20/09/2023

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

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

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

Analyzed By Sachi Patel AHMEDABAD P

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/08

M/s Moil Limited

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

Reporting Date: 21/09/2023



07/09/2023

08/09/2023

10/09/2023

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1172C/06C/V2/08 Laboratory Representative

Ambient Air

Near New Mine Colony Ambient temperature Satisfactory

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

Analysis start- End Date:

11/09/2023-20/09/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.54	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.74	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.79	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.94	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)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS

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

Analyzed By

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/08

M/s Moil Limited

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

Reporting Date: 21/09/2023



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1172C/06C/V2/08 Laboratory Representative

Ambient Air

Near New Mine Colony Ambient temperature

Satisfactory

Sampling Start Date: 07/0 Sampling End Date: 08/0

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 07/09/2023 08/09/2023 10/09/2023

11/09/2023-20/09/2023

24 25±5°C

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

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

Sachi

Analyzed By Sachi Patel



Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1172C/06C/V2/09

M/s Moil Limited

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

Reporting Date: 21/09/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory representative

Sampling Date:

Sample Description:

07/09/2023

Source Noise

Sr No	Lah Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1172C/0 6C/V2/09A	Near Chindi Tola Village	Day time	dB(A)Leq	IS 4758	54.4	75
2	Lab/PN/1172C/0 6C/V2/09B	Near pit office -2 vertical shaft	Day time	dB(A)Leq	IS 4758	56.6	75
3	Lab/PN/1172C/0 6C/V2/09C	Near vertical fan	Day time	dB(A)Leq	IS 4758	56.9	75
4	Lab/PN/1172C/0 6C/V2/09D	Near haul road	Day time	dB(A)Leq	IS 4758	53.3	75

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Analyzed By Sachi Patel



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