

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
Sample Type: Water
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: 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	6.86	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	217.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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

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TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1170C/06A/V2/01	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Mine office D.W.	Analysis End Date:	20/09/2023
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

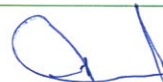
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.9	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.12	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500

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



Analyzed By
Rajat Chauhan

Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 21/09/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1170C/06A/V2/01	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Mine office D.W.	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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1170C/06A/V2/02

Reporting Date : 21/09/2023

M/s Moil Limited

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



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
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	New Mine colony pump house G.W.	Analysis End Date:	20/09/2023
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

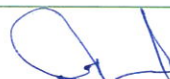
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.22	-	IS 3025 Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	78.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	22.44	mg/L	APHA 23rd Edn 3500 Ca B	70	200
4	Chloride	18.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	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 SO ₄ E	200	400
10	Total Dissolved Solids	226.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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



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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
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	New Mine colony pump house G.W.	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
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

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Reporting Date : 21/09/2023

M/s Moil Limited

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

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
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	New Mine colony pump house G.W.	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 and PL as Per IS 10500

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SAMPLE DETAILS

Lab ID:	Lab/PN/1170C/06A/V2/03	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Officer Colony No.4 D.W.	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	pH at 25 °C	7.32	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	242.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

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Reporting Date : 21/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/1170C/06A/V2/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Officer Colony No.4 D.W.
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
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

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SAMPLE DETAILS

Lab ID:	Lab/PN/1170C/06A/V2/03	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Officer Colony No.4 D.W.	Analysis End Date:	20/09/2023
Sample Quantity:	5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL 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

Reporting Date : 21/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1170C/06A/V2/04	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Rest House D.W.	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	pH at 25 °C	7.19	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	222.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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

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Rajat Chauhan



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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 21/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/1170C/06A/V2/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Rest House D.W.
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
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

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Page No : 2/2

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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1170C/06A/V2/04A

Reporting Date : 21/09/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1170C/06A/V2/04	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Rest House D.W.	Analysis End Date:	20/09/2023
Sample Quantity:	5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

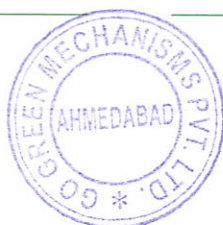
Specification:

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

AL and PL as Per IS 10500

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

Analyzed By
Rajat Chauhan



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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1170C/06A/V2/05	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Nr Nagra Plant	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	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

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Reporting Date: 21/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

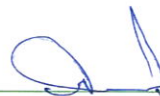
Lab ID:	Lab/PN/1170C/06A/V2/05	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Nr Nagra Plant	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond. Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	58	%	GGMP/L/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m³	IISEPA Method TO 3.4	1
15	Wind Speed	5.74	m/s	GGMP/L/SOP/MP/01:2020	NS

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



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Rajat Chauhan



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

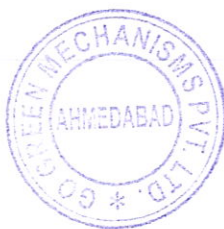
Lab ID:	Lab/PN/1170C/06A/V2/06	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Nr. Vertical Shaft	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.59	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/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	29	°C	GGMPL/SOP/MP/01	NS

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



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Reporting Date: 21/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

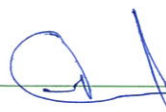
Lab ID:	Lab/PN/1170C/06A/V2/06	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Nr. Vertical Shaft	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

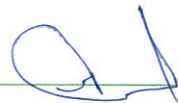
Lab ID:	Lab/PN/1170C/06A/V2/07	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Workshop	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.52	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



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1170C/06A/V2/07	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Workshop	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

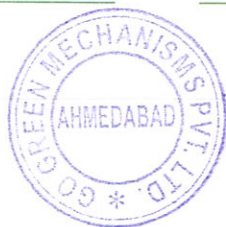
Lab ID:	Lab/PN/1170C/06A/V2/08	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Ukwa Village	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.06	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



Analyzed By
Rajat Chauhan





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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/1170C/06A/V2/08

Reporting Date: 21/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1170C/06A/V2/08	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Ukwa Village	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	59	%	GGMP/L/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	GGMP/L/SOP/MP/01:2020	NS

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

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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/09/2023

M/s Moil Limited

Ukwa Manganese Mines L1=100.007 Ha Site Dist. Dalaghat (M.P.)



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 07/09/2023
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1170C/06A/V2/09A	Nr Nagra Plant	Day Time	dB(A)Leq	IS 1758	66.5	75
2	Lab/PN/1170C/06A/V2/09B	Near Vertical shaft	Day Time	dB(A)Leq	IS 1758	69.8	75
3	Lab/PN/1170C/06A/V2/09C	Near workshop	Day Time	dB(A)Leq	IS 1758	70.1	75
4	Lab/PN/1170C/06A/V2/09D	Near Ukwa Village	Day Time	dB(A)Leq	IS 1758	61.2	75

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 21/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

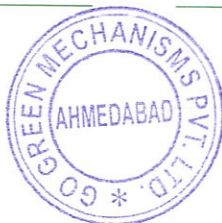
Lab ID:	Lab/PN/1171C/06B/V2/01	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Waste Water	Analysis Start Date:	10/09/2023
Sample Description:	Mine Seepage Water (WW)	Analysis End Date:	20/09/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.46	-	IS 3025- Part 11	-
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 °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

Kinjal

Analyzed By
Kinjal Damor



Manish

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1171C/06B/V2/02	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Waste Water	Analysis Start Date:	10/09/2023
Sample Description:	STP Outlet (WW)	Analysis End Date:	20/09/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	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 °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

Kinjal
Analyzed By
Kinjal Damor



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CERTIFICATE OF ANALYSIS

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

Reporting Date : 21/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1171C/06B/V2/03	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Waste Water	Analysis Start Date:	10/09/2023
Sample Description:	ETP Outlet (WW)	Analysis End Date:	20/09/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	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 °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

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

Reporting Date : 21/09/2023

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
Sample Type:	Waste Water	Analysis Start Date:	10/09/2023
Sample Description:	Vertical Shaft II open Dugwell (DW)	Analysis End Date:	20/09/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.23	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	220.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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

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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:	Lab/PN/1171C/06B/V2/04	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Waste Water	Analysis Start Date:	10/09/2023
Sample Description:	Vertical Shaft II open Dugwell (DW)	Analysis End Date:	20/09/2023
Sample Quantity:	6L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	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

Analyzed By
Kinjal Damor



Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 21/09/2023

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
Sample Type:	Waste Water	Analysis Start Date:	10/09/2023
Sample Description:	Vertical Shaft II open Dugwell (DW)	Analysis End Date:	20/09/2023
Sample Quantity:	6L	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

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 22/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1171C/06B/V2/05	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Vertical Shaft II	Analysis start- End Date:	11/09/2023-21/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 22/09/2023

M/s Moil Limited

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



TC-7073

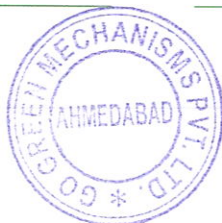
SAMPLE DETAILS

Lab ID:	Lab/PN/1171C/06B/V2/05	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Vertical Shaft II	Analysis start- End Date:	11/09/2023-21/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 22/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1171C/06B/V2/06	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Substation	Analysis start- End Date:	11/09/2023-21/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.87	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
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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 22/09/2023

M/s Moil Limited

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



TC-7073

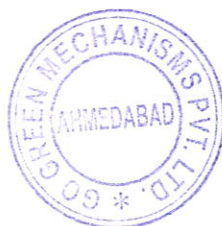
SAMPLE DETAILS

Lab ID:	Lab/PN/11/1C/06B/V2/06	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Substation	Analysis start- End Date:	11/09/2023-21/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	50	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method 10.3.1	1
15	Wind Speed	5.72	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 22/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1171C/06B/V2/07	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Admin Building	Analysis start- End Date:	11/09/2023-21/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	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)	µg/m3	IS 5182- Part 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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 22/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1171C/06B/V2/07	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Admin Building	Analysis start- End Date:	11/09/2023-21/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 22/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1171C/06B/V2/08	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	11/09/2023-21/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	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

Page No : 1/2

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Reporting Date: 22/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1171C/06B/V2/08	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Weigh Bridge	Analysis start- End Date:	11/09/2023-21/09/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Laboratory Representative	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 22/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

07/09/2023

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1171C/06B/V2/09A	Near Vertical Shaft II	Day Time	dB(A)Leq	IS 4758	56.5	75
2	Lab/PN/1171C/06B/V2/09B	Compressor House II	Day Time	dB(A)Leq	IS 4758	58.8	75
3	Lab/PN/1171C/06B/V2/09C	Nr Jack Hammer Drill (1650 level)	Day Time	dB(A)Leq	IS 4758	57.3	75
4	Lab/PN/1171C/06B/V2/09D	Dumper loaded at workshop	Day Time	dB(A)Leq	IS 4758	55.9	75

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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/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



SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/01	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Chindi Tola Village Open Dugwell (GW)	Analysis End Date:	20/09/2023
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

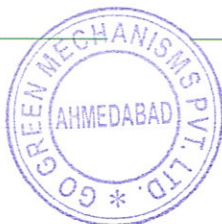
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.20	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	178	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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

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Sachi Patel



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Gujarat. INDIA

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Email Id : lab@gogreenmechanisms.com

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/01	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Chindi Tola Village Open Dugwell (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
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

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 21/09/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/01	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Chindi Tola Village Open Dugwell (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 ^u	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL as per IS 10500

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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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/02	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
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	pH at 25 °C	7.20	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	162	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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

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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/V2/02	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
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
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

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Reporting Date : 21/09/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/02	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
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

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Analyzed By
Sachi Patel



Manish Kumawat

Authorized Signatory
Manish Kumawat

Page No : 1/1

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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 21/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/03	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Dugwell near pit Haul Road 2	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	pH at 25 °C	7.38	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	104.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	24.04	mg/L	APHA 23rd Edn 3500 Ca D	75	200
4	Chloride	13.99	mg/L	IS 3025 -Part 32	250	1000
5	Copper	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	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 SO ₄ E	200	400
10	Total Dissolved Solids	170.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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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	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Dugwell near pit Haul Road 2	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
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

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Sachi Patel



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CERTIFICATE OF ANALYSIS

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

Reporting Date : 21/09/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/03	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Water	Analysis Start Date:	11/09/2023
Sample Description:	Dugwell near pit Haul Road 2	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

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

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	Sampling Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	10/09/2023
Sample Type:	Waste Water	Analysis Start Date:	11/09/2023
Sample Description:	Near Mine seepage vertical Shaft	Analysis End Date:	20/09/2023
Sample Quantity:	4.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.20	-	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	-
5	Dissolved Oxygen	3.70	mg/L	IS 3025- Part 38	-
6	BOD at 27 °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

Sachi

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Sachi Patel



Manish Kumawat

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Reporting Date: 21/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/05	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Chindi tola Village	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.84	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.90	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	11.66	µg/m ³	IS 5182- Part 2	80
4	Nitrogen Dioxide (NO ₂)	18.08	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	BQL (QL=10)	µg/m ³	IS 5182- Part 9	100
6	Ammonia (NH ₃)	9.42	µg/Nm ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	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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M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/05	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Chindi tola Village	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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	

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/09/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

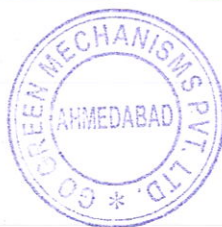
Lab ID:	Lab/PN/1172C/06C/V2/06	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Haul Road	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.27	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

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Reporting Date: 21/09/2023

M/s Moil Limited

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



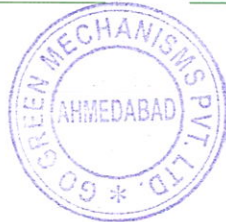
SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/06	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Haul Road	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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



Manish
Authorized Signatory
Manish Kumawat

Page No : 2/2

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Head Office & Lab

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

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/07	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Explosive Magazine	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	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

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SAMPLE DETAILS

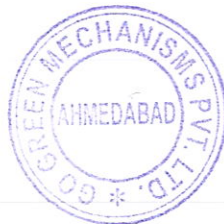
Lab ID:	Lab/PN/1172C/06C/V2/07	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near Explosive Magazine	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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

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Sachi Patel



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 21/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/08	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near New Mine Colony	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.54	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

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SAMPLE DETAILS

Lab ID:	Lab/PN/1172C/06C/V2/08	Sampling Start Date:	07/09/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	08/09/2023
Sample Type:	Ambient Air	Sample Receipt Date:	10/09/2023
Sample Description:	Near New Mine Colony	Analysis start- End Date:	11/09/2023-20/09/2023
Env. Cond.-Sampling:	Ambient temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
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

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1172C/06C/V2/09

Reporting Date: 21/09/2023

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory representative

Sampling Date: 07/09/2023
Sample Description: Source Noise

Sr No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1172C/06C/V2/09A	Near Chindi Tola Village	Day time	dB(A)Leq	IS 4758	54.4	75
2	Lab/PN/1172C/06C/V2/09B	Near pit office -2 vertical shaft	Day time	dB(A)Leq	IS 4758	56.6	75
3	Lab/PN/1172C/06C/V2/09C	Near vertical fan	Day time	dB(A)Leq	IS 4758	56.9	75
4	Lab/PN/1172C/06C/V2/09D	Near haul road	Day time	dB(A)Leq	IS 4758	53.3	75

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