

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

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/01

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1064D/06A/01

Sample Drawn By:

Laboratory Representative Ground Water

Sample Type: Sample Description:

D.W Mine Office

Sample Quantity:

31

Sample Condition:

Satisfactory

Sampling Date:

30/06/2024

Sample Receipt Date: Analysis Start Date:

02/07/2024 03/07/2024

Analysis End Date: Sampling Method:

10/07/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

						10
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	100.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	53.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.76	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.12	1 1 13	IS 3025- Part 11	6,5-8,5	No relaxation
9	Sulphate	38.64	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	264.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	154.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

Analyzed By Khushbu Suthar



Authorized Signatory Manish Kumawat

Page No: 1/2

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M/s Moil Limited

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

Reporting Date: 11/07/2024



### SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/1064D/06A/01

Sample Type: Sample Description:

D.W Mine Office

Sample Quantity:

Sample Condition:

Laboratory Representative

Ground Water

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

03/07/2024 10/07/2024 GGMPL/WI/27A

30/06/2024

02/07/2024

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.16	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

Khushbu Suthar

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/02

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

n By:

Ground Water New Mine Colony Pump House (GW)

Lab/PN/1064D/06A/02

Laboratory Representative

Sample Quantity: Sample Condition: 3 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

10/07/2024

30/06/2024

02/07/2024

03/07/2024

GGMPL/WI/27A

Packing: Sealed

ampi	Condition.	у		racking. Sea		
F- 74 E						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	108.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	37.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	55.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.68	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	10.69	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeab	le Agreeabl
8	pH at 25 °C	7.45	1	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	37.77	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	276.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Khushbu Suthar



Authorized Signatory Manish Kumawat

Page No: 1/2

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M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Lab/PN/1064D/06A/02 Laboratory Representative

Ground Water

New Mine Colony Pump House (GW)

Sample Quantity: Sample Condition: 3 L

Satisfactory

Sampling Date:

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

Sampling Method:

Sampling Method: Packing: 10/07/2024 GGMPL/WI/27A

30/06/2024

02/07/2024

03/07/2024

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	138.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	3.21	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxatio

AL & PL As Per IS 10500.

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

Analyzed By Khushbu Suthar AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/03

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1064D/06A/03

Sample Drawn By: Sample Type: Laboratory Representative Ground Water

Sample Description:

D.W officer Colony No-4

Sample Quantity:

Sample Condition:

3 L Satisfactory Sampling Date:

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 30/06/2024 02/07/2024

02/07/2024 03/07/2024 10/07/2024

GGMPL/WI/27A

Sealed

Specification:

						pedinedelon
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	120.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	51.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.25	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	10.93	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	(AL)	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.42		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	30.15	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	244.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	150.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500.

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

Analyzed By Khushbu Suthar



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Page No: 1/2

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M/s Moil Limited

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

Reporting Date: 11/07/2024



### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/1064D/06A/03

Ground Water

3 L

Laboratory Representative

D.W officer Colony No-4

Satisfactory

Sampling Date:

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

Sampling Method: Packing:

30/06/2024

02/07/2024 03/07/2024 10/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	2.11	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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Khushbu Suthar



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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/04

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description: Lab/PN/1064D/06A/04 Laboratory Representative

Ground Water Rest House D.W.

Sample Quantity: Sample Condition: 3 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

30/06/2024

02/07/2024 03/07/2024 10/07/2024

GGMPL/WI/27A

Sealed

						Specification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	105.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	48.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.42	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	10.20	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.25		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	27.91	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	204.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Ludulan Khushbu Suthar



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Report Number: GGMPL/PN/1064D/06A/04

M/s Moil Limited

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

Reporting Date: 11/07/2024



### SAMPLE DETAILS

Lab ID:

Lab/PN/1064D/06A/04

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description: Ground Water Rest House D.W.

Satisfactory

Sample Quantity:

3 L

Sample Condition:

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

30/06/2024

02/07/2024 03/07/2024 10/07/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	134.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.54	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= Quant

Klubble Khushbu Suthar

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/05

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

## SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1064D/06A/05 Laboratory Representative

Ambient Air Near Nagra Plant Ambient Temperature

Representative Sampling End Date:
r Sample Receipt Date:
a Plant Analysis start- End Date:

Satisfactory

 Sampling Start Date:
 30/06/2024

 Sampling End Date:
 01/07/2024

 Sample Receipt Date:
 02/07/2024

 Analysis start- End Date:
 03/07/2024-10/07/2024

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

4

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.50	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)	11.81	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.20	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.65	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.06	μg/m3	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

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

Analyzed By Khushbu Suthar AHMEDABAD V

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/05

M/s Moil Limited

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

Reporting Date: 11/07/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1064D/06A/05

Laboratory Representative

Ambient Air Near Nagra Plant Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

30/06/2024 01/07/2024 02/07/2024

03/07/2024-10/07/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	54	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/06

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1064D/06A/06

Laboratory Representative

Ambient Air

Near vertical Shaft 1 Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 01/07/2024 02/07/2024

30/06/2024

02/07/2024 03/07/2024-10/07/2024

24

g: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.58	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.21	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.01	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.03	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.71	µg/m3	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

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

Analyzed By Khushbu Suthar AHMEDABAD

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/06

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1064D/06A/06

Laboratory Representative

Ambient Air

Near vertical Shaft 1 Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

30/06/2024 01/07/2024 02/07/2024

03/07/2024-10/07/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/07

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1064D/06A/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:

30/06/2024

01/07/2024 02/07/2024

03/07/2024-10/07/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.75	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.44	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	28.04	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.53	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.06	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	1.02	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/07

M/s Moil Limited

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

Reporting Date: 11/07/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1064D/06A/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:

Total Sampling hours: Env. Cond.-Testing: 30/06/2024 01/07/2024

02/07/2024

03/07/2024-10/07/2024 24

25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
mperature	32	°C	GGMPL/SOP/MP/01	NS
lative Humidity	54	%	GGMPL/SOP/MP/01	NS
infall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
ad	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
nd Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS
	mperature lative Humidity infall ad	mperature 32  lative Humidity 54  infall 0.0  BQL (QL=0.001)	Instruction         32         °C           Idative Humidity         54         %           infall         0.0         mm           ad         BQL (QL=0.001)         μg/m3	mperature         32         °C         GGMPL/SOP/MP/01           lative Humidity         54         %         GGMPL/SOP/MP/01           infall         0.0         mm         GGMPL/SOP/MP/01:2020           ad         BQL (QL=0.001)         μg/m3         USEPA Method IO 3.4

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

Analyzed By

Analyzed By Khushbu Suthar OUT AHMED A BAD

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/08

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1064D/06A/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:

Env. Cond.-Testing:

30/06/2024

01/07/2024 02/07/2024

03/07/2024-10/07/2024

: 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	58.83	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)	15.19	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.06	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.21	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.47	μg/m3	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	б

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

Analyzed By Khushbu Suthar AHMEDABAD P

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/08

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1064D/06A/08

Laboratory Representative

Ambient Áir

Near Ukwa Village Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Total Sampling hours: Env. Cond.-Testing: 30/06/2024

01/07/2024 02/07/2024

03/07/2024-10/07/2024

24

25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	33	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS
	Temperature Relative Humidity Rainfall Lead	Temperature         33           Relative Humidity         55           Rainfall         0.0           Lead         BQL (QL=0.001)	Temperature         33         °C           Relative Humidity         55         %           Rainfall         0.0         mm           Lead         BQL (QL=0.001)         μg/m3	Temperature         33         °C         GGMPL/SOP/MP/01           Relative Humidity         55         %         GGMPL/SOP/MP/01           Rainfall         0.0         mm         GGMPL/SOP/MP/01:2020           Lead         BQL (QL=0.001)         μg/m3         USEPA Method IO 3.4

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

Analyzed By Khushbu Suthar AHMEDABAD P

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1064D/06A/09

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

30/06/2024

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1064D/0 6A/09A	Near Nagra Plant	Day Time	dB(A)Leq	IS 4758	69.8	-
2	Lab/PN/1064D/0 6A/09B	Near Vertical Shaft-I	Day Time	dB(A)Leq	IS 4758	72.7	1
3	Lab/PN/1064D/0 6A/09C	Near Workshop	Day Time	dB(A)Leq	IS 4758	70.8	
4	Lab/PN/1064D/0 6A/09D	Near Ukwa Village	Day Time	dB(A)Leq	IS 4758	68.7	-

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

Analyzed By Khushbu Suthar

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Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1065D/06A/01

M/s Moil Limited

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

Reporting Date: 08/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1065D/06A/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity: Mine office D.W.

Sample Condition:

500 ml Satisfactory Sampling Date:

30/06/2024

Sample Receipt Date: Analysis Start Date: 02/07/2024 03/07/2024

Analysis End Date: Sampling Method: 08/07/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

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Authorized Signatory Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1065D/06A/02

M/s Moil Limited

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

Reporting Date: 08/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

\_

Lab/PN/1065D/06A/02

Sample Drawn By: Sample Type: Laboratory Representative Ground Water

Sample Description: Sample Quantity:

Sample Condition:

New Mine colony pump house G.W.

500 ml Satisfactory Sampling Date:

30/06/2024

Sample Receipt Date: Analysis Start Date: 02/07/2024 03/07/2024

Analysis End Date: Sampling Method: 08/07/2024 GGMPL/WI/27A

Packing: Sea

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

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Report Number: GGMPL/PN/1065D/06A/03

M/s Moil Limited

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

Reporting Date: 08/07/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/1065D/06A/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity:

Sample Condition:

Officer Colony No.4 (D.W)

500 ml

Satisfactory

Sampling Date:

30/06/2024

Sample Receipt Date: Analysis Start Date:

02/07/2024 03/07/2024

Analysis End Date: Sampling Method:

08/07/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Nidhi Shah

Analyzed By

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1065D/06A/04

M/s Moil Limited

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

Reporting Date: 08/07/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1065D/06A/04

Sample Drawn By:

Laboratory Representative Water

Sample Type: Sample Description:

Rest House (D.W)

Sample Quantity: Sample Condition: 500 ml Satisfactory Sampling Date:

30/06/2024

Sample Receipt Date: Analysis Start Date: 02/07/2024 03/07/2024

Analysis End Date:

08/07/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/01

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/1066D/06B/01

Laboratory Representative

Sampling Date: Sample Receipt Date: 30/06/2024 02/07/2024

Sample Drawn By: Sample Type:

Waste Water

Analysis Start Date:

03/07/2024

Sample Description:

Mine Seapage Water (WW)

Analysis End Date: Sampling Method:

10/07/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 4.5 L

Satisfactory

Packing:

Sealed

r.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.38		IS 3025- Part 11	
2	Total Suspended Solids	26.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Demand	50.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	5.00	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	16	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

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

Analyzed By

Aarmi Patel

End of Report ---

HAN

Authorized Signatory Manish Kumawat

Page No: 1/1



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/02

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1066D/06B/02 Laboratory Representative Sampling Date: Sample Receipt Date: Analysis Start Date: 30/06/2024 02/07/2024 03/07/2024

Sample Type: Sample Description: Waste Water STP Outlet

Analysis End Date: Sampling Method: 10/07/2024 GGMPL/WI/27A

Sample Quantity: 4.5 L
Sample Condition: Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.25	-	IS 3025- Part 11	NS
2	Total Suspended Solids	26.00	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	NS
4	Chemical Oxygen Demand	40.00	mg/L	APHA 23rd Edn 5220 B	NS
5	Dissolved Oxygen	5.30	mg/L	IS 3025- Part 38	NS
6	BOD at 27 o C for 3 days	13	mg/L	IS 3025- Part 44	30
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	NS

Norms as Per CCA

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

Analyzed By Aarmi Patel

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Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/03

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1066D/06B/03

Laboratory Representative

Sampling Date: Sample Receipt Date:

30/06/2024 02/07/2024

Waste Water

Analysis Start Date: Analysis End Date:

03/07/2024 10/07/2024

Sample Description: Sample Quantity:

Sample Drawn By:

Sample Type:

ETP Outlet 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	7.25		IS 3025- Part 11	5.5 To 9.0
2	Total Suspended Solids	BQL (QL=10)	mg/L	APHA 23rd Edn 2540 D	100
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	10
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	250
5	Dissolved Oxygen	5.1	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	0.19	mg/L	GGMPL/SOP/W & WW/46	NS

Norms As Per CCA

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

Analyzed By Aarmi Patel

AHMEDABAD --- End of Report --

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/04

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/1066D/06B/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Vertical Shaft II Open Dugwell

Sample Quantity: Sample Condition: 4.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

30/06/2024

02/07/2024 03/07/2024

10/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	254.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	53.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.26	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.32		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	18.74	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	328.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	179.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/04

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1066D/06B/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Vertical Shaft II Open Dugwell

Sample Quantity:

4.5 L

Sample Condition:

Satisfactory

Sampling Date:

ate: 30/06/2024

Sample Receipt Date: Analysis Start Date: 02/07/2024 03/07/2024

Analysis End Date: Sampling Method: 10/07/2024 GGMPL/WI/27A

ouriping H

GGI-IFL/WI

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	0.134	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.42	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

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/05

M/s Moil Limited

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

Reporting Date: 11/07/2024



### SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1066D/06B/05 Laboratory Representative Ambient Air Near Vertical shaff- II Ambient Temperature

Satisfactory

 Sampling Start Date:
 30/06/2024

 Sampling End Date:
 01/07/2024

 Sample Receipt Date:
 02/07/2024

 Analysis start- End Date:
 03/07/2024-10/07/2024

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

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.09	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.82	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.42	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.16	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.30	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.97	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/05

M/s Moil Limited

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

Reporting Date: 11/07/2024



### SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1066D/06B/05 Laboratory Representative

Ambient Air

Near Vertical shaff- II Ambient Temperature

Satisfactory

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

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

30/06/2024 01/07/2024 02/07/2024

03/07/2024-10/07/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.9	m/s	GGMPL/SOP/MP/01:2020	NS

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

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End of Report ---

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/06

M/s Moil Limited

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

Reporting Date: 11/07/2024



### SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1066D/06B/06 Laboratory Representative

Ambient Air

Near Substation Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 01/07/2024 02/07/2024 03/07/2024-

30/06/2024

03/07/2024-10/07/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.48	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.07	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.38	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.59	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.94	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By

Analyzed By Aarmi Patel Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/06

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1066D/06B/06

Laboratory Representative

Ambient Air Near Substation Ambient Temperature

Satisfactory

 Sampling Start Date:
 30/06/2024

 Sampling End Date:
 01/07/2024

 Sample Receipt Date:
 02/07/2024

Analysis start- End Date: 03/07/2024-10/07/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	754	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.9	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/07

M/s Moil Limited

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

Reporting Date: 11/07/2024



### SAMPLE DETAILS

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

Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1066D/06B/07 Laboratory Representative Ambient Air

Near Admin Building Ambient Temperature

Satisfactory

Sampling Start Date: 30/06/2024 Sampling End Date: 01/07/2024 Sample Receipt Date: 02/07/2024

Analysis start- End Date: 03/07/2024-10/07/2024 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)	62.43	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	8.88	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.71	µg/m3	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)	1.02	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Aarmi Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/07

M/s Moil Limited

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

Reporting Date: 11/07/2024



# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1066D/06B/07 Laboratory Representative

Ambient Air

Near Admin Building Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 30/06/2024

01/07/2024 02/07/2024

03/07/2024-10/07/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	33	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.9	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Analyzed By Aarmi Patel Aut

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/08

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1066D/06B/08 Laboratory Representative Ambient Air Near Weigh Bridge Ambient Temperature Satisfactory 

 Sampling Start Date:
 30/06/2024

 Sampling End Date:
 01/07/2024

 Sample Receipt Date:
 02/07/2024

 Analysis start- End Date:
 03/07/2024

te: 02/07/2024 Date: 03/07/2024-10/07/2024 Irs: 24

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.07	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.72	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.64	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.89	µg/m3	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

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

Analyzed By

Analyzed By Aarmi Patel Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/08

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1066D/06B/08

Laboratory Representative

Ambient Air

Near Weigh Bridge Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

30/06/2024

01/07/2024 02/07/2024

03/07/2024-10/07/2024

24 25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
erature	32	°C	GGMPL/SOP/MP/01	NS
ve Humidity	55	%	GGMPL/SOP/MP/01	NS
II .	0.0	mm	GGMPL/SOP/MP/01:2020	NS
	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
Speed	2.9	m/s	GGMPL/SOP/MP/01:2020	NS
	ve Humidity	ve Humidity 55 II 0.0 BQL (QL=0.001)	ve Humidity 55 %  II 0.0 mm  BQL (QL=0.001) μg/m3	ye Humidity 55 % GGMPL/SOP/MP/01  II 0.0 mm GGMPL/SOP/MP/01:2020  BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Analyzed By

Aarmi Patel

AHMEDABAD

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Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1066D/06B/09

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

30/06/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1066D/0 6B/09A	Near Vertical Shaft-II	Day Time	dB(A)Leq	IS 4758	72.8	
2	Lab/PN/1066D/0 6B/09B	Compressor House- II	Day Time	dB(A)Leq	IS 4758	73.5	
3	Lab/PN/1066D/0 6B/09C	Near Jack Hammer Drill (1650 Level)	Day Time	dB(A)Leq	IS 4758	71.9	
4	Lab/PN/1066D/0 6B/09D	Dumper Loaded at Workshop	Day Time	dB(A)Leq	IS 4758	70.4	

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

Analyzed By

Aarmi Patel

9 \* --- End of Report

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Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1067D/06B/01

M/s Moil Limited

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

Reporting Date: 08/07/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Vertical shaff-II Open Dug well (GW)

Sample Quantity:

Sample Condition:

Lab/PN/1067D/06B/01

500 ml

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

30/06/2024

02/07/2024

03/07/2024 08/07/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2 1	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

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Authorized Signatory Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/01

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/1068D/06C/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Chindi Tola Village Open Dugwell (GW)

Sample Quantity: Sample Condition: 3L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

30/06/2024

02/07/2024 03/07/2024

10/07/2024 GGMPL/WI/27A

Sealed

						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	120.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	28.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	32.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.15	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	14.58	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.42		IS 3025- Part 11	6.5-8.5	No
9	Sulphate	18.30	mg/L	APHA 23rd Edn 4500 SO4 E	200	relaxation 400
10	Total Dissolved Solids (TDS)	174.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	131.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/01

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/1068D/06C/01

Laboratory Representative

Sample Description: Sample Quantity:

Sample Drawn By:

Sample Type:

Chindi Tola Village Open Dugwell (GW)

Sample Condition:

Ground Water

Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

30/06/2024

02/07/2024 03/07/2024 10/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13 Turbi	dity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14 Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15 Mang	anese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16 Nitrat	re e	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 Aarmi Patel

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Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/02

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/1068D/06C/02

Laboratory Representative Ground Water

Dugwell near pit office (GW)

3L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

30/06/2024

02/07/2024 03/07/2024 10/07/2024

GGMPL/WI/27A

Sealed

						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	83.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	18.04	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	38.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.11	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.55	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.12		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	18.11	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	164.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	109.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By Aarmi Patel



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/02

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1068D/06C/02

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description:

Dugwell near pit office (GW)

Sample Quantity: Sample Condition: 3L

Satisfactory

Ground Water

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

30/06/2024

02/07/2024 03/07/2024 10/07/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	All	
13 Turb	oidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	AL	PL
14 Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No.
15 Man	ganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	relaxation
16 Nitra	te	1.23	mg/L	APHA 23rd Edn 4500 NO3 B		0.3 No
			3, -	74 747 2510 Edit 4500 NOS B	45	relaxation

AL & PL As Per IS 10500

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

ABRUS

Analyzed By Aarmi Patel AHMEDABAD W

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/03

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Sample Quantity: Sample Condition: Lab/PN/1068D/06C/03

Laboratory Representative Ground Water

3L

Dugwell near Haul Road 2

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

30/06/2024

02/07/2024 03/07/2024 10/07/2024

GGMPL/WI/27A Sealed

						Specification
Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	97.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	24.85	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	44.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.19	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	18.95	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	#8	IS 3025- Part 5	Agreeable	e Agreeable
8	pH at 25 °C	7.35		IS 3025- Part 11	6.5-8.5	No
9	Sulphate	16.33	mg/L	APHA 23rd Edn 4500 SO4 E	200	relaxation 400
10	Total Dissolved Solids (TDS)	168.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	140.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Analyzed By Aarmi Patel



Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/03

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/1068D/06C/03

Laboratory Representative Ground Water

Dugwell near Haul Road 2

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Sampling Method:

Analysis End Date:

Packing:

30/06/2024

02/07/2024 03/07/2024 10/07/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.04	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/04

M/s Moil Limited

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

Reporting Date: 11/07/2024



### SAMPLE DETAILS

Lab ID:

Lab/PN/1068D/06C/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description:

Near Mine seapage vertical II

Sample Quantity:

3L

Sample Condition: Satisfactory

Sampling Date:

Sample Receipt Date:

Sample Receipt Date Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

30/06/2024

02/07/2024

03/07/2024 10/07/2024

GGMPL/WI/27A Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1 pH	at 25 °C	7.23	-	IS 3025- Part 11	
2 Tot	al Suspended Solids	29.00	mg/L	APHA 23rd Edn 2540 D	
3 Oil	and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	
4 Che	emical Oxygen Demand	50.00	mg/L	APHA 23rd Edn 5220 B	
5 Dis	solved Oxygen	5.3	mg/L	IS 3025- Part 38	
6 BO	o at 27 o C for 3 days	16	mg/L	IS 3025- Part 44	
7 Mai	nganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	

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

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Analyzed By Aarmi Patel AHMEDABAD PV

Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/05

M/s Moil Limited

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

Reporting Date: 11/07/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1068D/06C/05

Laboratory Representative

Ambient Air

Near Chindi tola Village Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 30/06/2024

01/07/2024 02/07/2024

03/07/2024-10/07/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.15	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.44	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.27	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.60	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.99	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Aarmi Patel AHMEDABAD VI

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/05

M/s Moil Limited

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

Reporting Date: 11/07/2024



### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1068D/06C/05

Laboratory Representative

Ambient Air

Near Chindi tola Village Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

30/06/2024

01/07/2024 02/07/2024

03/07/2024-10/07/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NIAAO CL.
12 Temper	ature	22			NAAQ Standard
		33	°C	GGMPL/SOP/MP/01	NS
13 Relative	Humidity	56	%	GGMPL/SOP/MP/01	NS
14 Rainfall		0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 Lead		BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 Wind Sp	peed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel AHMEDABAD PV

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/06

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1068D/06C/06

Laboratory Representative

Ambient Air Near Haul Road

Ambient Temperature

Satisfactory

Sampling Start Date:

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

Total Sampling hours:

30/06/2024 01/07/2024

02/07/2024

03/07/2024-10/07/2024

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.23	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.58	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.67	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.75	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.69	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.80	µg/m3	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)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/06

M/s Moil Limited

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

Reporting Date: 11/07/2024



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1068D/06C/06

Laboratory Representative

Ambient Air

Near Haul Road Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

30/06/2024

01/07/2024 02/07/2024

03/07/2024-10/07/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 Te	emperature	33	°C	GGMPL/SOP/MP/01	NS
13 Re	elative Humidity	56	%	GGMPL/SOP/MP/01	NS
14 Ra	infall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 Le	ad	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 Wi	nd Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

17BRets

Analyzed By Aarmi Patel Quantification Airnit

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/07

M/s Moil Limited

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

Reporting Date: 11/07/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1068D/06C/07

Laboratory Representative

Ambient Air

Near Explosive Magazine Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 30/06/2024

01/07/2024 02/07/2024

03/07/2024-10/07/2024

24 25±5°C

Sr.No	Parameters Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	56.08	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.56	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.05	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.80	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.97	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Aarmi Patel AHMEDABAD PV

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/07

M/s Moil Limited

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

Reporting Date: 11/07/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1068D/06C/07

Laboratory Representative

Ambient Air

Near Explosive Magazine Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

30/06/2024

01/07/2024 02/07/2024

03/07/2024-10/07/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standard
12 Tem	perature	33	°C	GGMPL/SOP/MP/01	NS
13 Relat	tive Humidity	56	%	GGMPL/SOP/MP/01	NS
14 Raint	fall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 Lead		BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 Wind	Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

ABRUTS

Analyzed By Aarmi Patel AHMEDABAD PERE BERFORT

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/08

M/s Moil Limited

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

Reporting Date: 11/07/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1068D/06C/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:

Total Sampling hours: Env. Cond.-Testing: 30/06/2024 01/07/2024

02/07/2024

03/07/2024-10/07/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.04	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.76	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.98	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.32	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.20	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By

AHMEDABAD VY

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/08

M/s Moil Limited

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

Reporting Date: 11/07/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1068D/06C/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:

Total Sampling hours: Env. Cond.-Testing: 30/06/2024

01/07/2024 02/07/2024

03/07/2024-10/07/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	l'emperature	32	°C	GGMPL/SOP/MP/01	NS
13 F	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14 F	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 L	ead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 V	Vind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel Quantification/kinns

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1068D/06C/09

M/s Moil Limited

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

Reporting Date: 11/07/2024



# SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

30/06/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method		
1	Lab/PN/1068D/0	Noor Chind: Tala Mill		Offic	rest Method	Reading	Norms
MIC RO	6C/09A	Near Chindi Tola Village	Day Time	dB(A)Leq	IS 4758	68.9	- 2
2	Lab/PN/1068D/0	Near pit office -2 vertical shaft	Day Time	10771			
			Day Time	dB(A)Leq	IS 4758	71.8	
3	Lab/PN/1068D/0 6C/09C	Near vertical fan	Day Time	dB(A)Lea	IS 4758	70.5	
4	Lab/PN/1068D/0	New York			10 1750	70.3	THE REAL PROPERTY.
,	6C/09D	Near haul road	Day Time	dB(A)Leq	IS 4758	71.4	

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

Analyzed By Aarmi Patel

End of Report

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1069D/06C/01

M/s Moil Limited

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

Reporting Date: 08/07/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/1069D/06C/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description: Sample Quantity: Sample Condition:

Chindhi tola village open dugwell (GW)

Satisfactory

500 ml

Sampling Date:

30/06/2024

Sample Receipt Date:

02/07/2024

Analysis Start Date: Analysis End Date:

03/07/2024

Sampling Method:

08/07/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1 Total	coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2 E. coli		Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

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**Authorized Signatory** Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1069D/06C/02

M/s Moil Limited

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

Reporting Date: 08/07/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1069D/06C/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description: Sample Quantity: Sample Condition:

Dugwell near pit office (GW)

500 ml

Satisfactory

Sampling Date:

Sample Receipt Date:

02/07/2024

Analysis Start Date: Analysis End Date:

03/07/2024 08/07/2024

30/06/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1069D/06C/03

M/s Moil Limited

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

Reporting Date: 08/07/2024



### SAMPLE DETAILS

Lab ID:

Lab/PN/1069D/06C/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description:

Dugwell near Haul road 2 (GW)

Sample Quantity: Sample Condition:

Satisfactory

500 ml

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

30/06/2024

02/07/2024

03/07/2024 08/07/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Nidhi Shah

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Authorized Signatory Dr. Haragobinda Srichandan

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