

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/501D/76A/01

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/501D/76A/01

Laboratory Representative Water

Nr Workshop Borewell (GW) 3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

23/05/2024

25/05/2024 27/05/2024

03/06/2024 GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	152.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	51.30	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	64.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.35	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.80	mg/L	APHA 23rd Edn 3500 Mg B	30	10
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.13		IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	27.59	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	299.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	193.00	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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M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Lab/PN/501D/76A/01

Sampling Date:

23/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

25/05/2024 27/05/2024

Sample Type: Sample Description:

Water Nr Workshop Borewell (GW)

Satisfactory

Analysis End Date:

03/06/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5L

Sampling Method:

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		0.08	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate		1.95	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

--- End of Report

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/501D/76A/02

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/501D/76A/02 Laboratory Representative

Water

Old Pit Reservoir 3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

23/05/2024

25/05/2024 27/05/2024 03/06/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	167.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	49.30	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	65.98	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	15.55	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.81	- 0.	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	21.35	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	301.00	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	187.00	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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Report Number: GGMPL/PN/501D/76A/02

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/501D/76A/02 Laboratory Representative

Sampling Date: Sample Receipt Date: 23/05/2024 25/05/2024

Sample Type: Sample Description:

Water Old Pit Reservoir Analysis Start Date: 27/05/2024 Analysis End Date: 03/06/2024

Sample Quantity: Sample Condition: 3.5L

Satisfactory

Sampling Method:

GGMPL/WI/27A

Sealed

Packing:

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	0.09	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.35	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

- End of Report ---

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/501D/76A/03

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Lab/PN/501D/76A/03

Sample Drawn By: Sample Type: Laboratory Representative

Water

Sample Description:

Kurmuda Plant

Sample Quantity: Sample Condition: 3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing: 03/06/2024 GGMPL/WI/27A

23/05/2024

25/05/2024

27/05/2024

Sealed

Specification:

					-	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	128.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.48	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	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.21		IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	26.23	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	260.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	156.00	mg/L	APHA 23rd Edn 2340 C	200	600

Norms 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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M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



### SAMPLE DETAILS

Lab ID: Lab/PN/501D/76A/03 Sampling Date: 23/05/2024 Sample Drawn By: Laboratory Representative Sample Receipt Date: 25/05/2024 Sample Type: Water Analysis Start Date: 27/05/2024 Sample Description: Kurmuda Plant Analysis End Date: 03/06/2024 Sample Quantity: 3.5L Sampling Method: GGMPL/WI/27A Sample Condition: Satisfactory

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	0.1	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.42	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

Norms As Per IS 10500

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

Analyzed By Aarmi Patel

--- End of Report ---

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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/501D/76A/04

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/501D/76A/04

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Pond Nr Shiv Mandir

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

Sample Receipt Date:

25/05/2024

Analysis Start Date:

27/05/2024

23/05/2024

Analysis End Date:

03/06/2024 GGMPL/WI/27A

Sampling Method:

Sealed

Packing:

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	128.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	66.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.80	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.53		IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	22.23	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	251.00	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	167.00	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

HAN. HMEDABAD

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M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Quantity: Sample Condition:

Sample Description:

Lab/PN/501D/76A/04

Laboratory Representative Water

Pond Nr Shiv Mandir

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

23/05/2024

25/05/2024 27/05/2024 03/06/2024

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		0.07	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate		0.48	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

--- End of Report ---

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Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/501D/76A/05

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

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

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

Lab/PN/501D/76A/05

Laboratory Representative Ambient Air

Nr Mine Workshop Ambient Temperature

Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing: 23/05/2024 25/05/2024

25/05/2024 27/05/2024-03/06/2024

27/05/2024-03/06/202 24

25±5°C	

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.51	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.16	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.93	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.62	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.23	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.40	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

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

Analyzed By Aarmi Patel HAMEDABAD WAS CONTROL OF STREET OF S

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/501D/76A/05

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

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

Lab/PN/501D/76A/05 Laboratory Representative Ambient Air Nr Mine Workshop Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

23/05/2024 25/05/2024 25/05/2024 27/05/2024-03/06/2024

2//05/2024-03/06/ 24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	41	%	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	2.5	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/501D/76A/06

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/501D/76A/06

Laboratory Representative

Ambient Air

Nr Railway Station Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testina:

23/05/2024

24/05/2024 25/05/2024

27/05/2024-03/06/2024

24 25+

Env. CondTesting:	25±5°C	

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.07	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.62	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.87	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.86	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	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

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

Analyzed By Aarmi Patel AHMEDABAD P

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/501D/76A/06

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



TC-7073

23/05/2024

# SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/501D/76A/06 Laboratory Representative Ambient Air Nr Railway Station Ambient Temperature Satisfactory Sampling Start Date:
Sampling End Date:
Sample Receipt Date:
Analysis start- End Date:
Total Sampling hours:

End Date: 24/05/2024 eceipt Date: 25/05/2024 start- End Date: 27/05/2024-03/06/2024 appling hours: 24

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	42	%	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	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Aarmi Patel AHMEDABAD

End of Report

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/501D/76A/07

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/501D/76A/07

Laboratory Representative

Ambient Air

Kurmuda Grampanchayat Office

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 23/05/2024

24/05/2024 25/05/2024

27/05/2024-03/06/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.72	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.07	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.62	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.17	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.82	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Aarmi Patel AHMEDABAD S

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/501D/76A/07

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/501D/76A/07

Laboratory Representative

Ambient Air

Kurmuda Grampanchayat Office

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

23/05/2024 24/05/2024

25/05/2024

27/05/2024-03/06/2024

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 7	Temperature	42	°C	GGMPL/SOP/MP/01	NS
13 F	Relative Humidity	44	%	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	Wind Speed	2.5	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/501D/76A/08

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/501D/76A/08 Laboratory Representative Ambient Air Nr Mine Magazine

Ambient Temperature Satisfactory

Sampling Start Date: 23/05/2024 Sampling End Date: 24/05/2024 Sample Receipt Date: 25/05/2024

Analysis start- End Date: 27/05/2024-03/06/2024 Total Sampling hours: 24 Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.01	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.24	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.79	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.17	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.37	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	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)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Aarmi Patel

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/501D/76A/08

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt:

Lab/PN/501D/76A/08 Laboratory Representative

Ambient Air Nr Mine Magazine Ambient Temperature Satisfactory

Sampling Start Date: 23/05/2024 Sampling End Date: 24/05/2024 Sample Receipt Date: 25/05/2024

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

27/05/2024-03/06/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	41	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	42	%	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	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/501D/76A/09

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

23/05/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/501D/76 A/09A	Near Mine Workshop	Day Time	dB(A)Leq	IS 4758	71.2	-
2	Lab/PN/501D/76 A/09B	Nr Haulage Road	Day Time	dB(A)Leq	IS 4758	67.8	
3	Lab/PN/501D/76 A/09C	Nr Crushing & Screening	Day Time	dB(A)Leq	IS 4758	72.3	2 10 2
4	Lab/PN/501D/76 A/09D	Nr Mine Magazine	Day Time	dB(A)Leq	IS 4758	65.3	

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

Analyzed By Aarmi Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/504D/76A/01

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 03/06/2024

TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/504D/76A/01

Sampling Date:

23/05/2024 25/05/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

27/05/2024 03/06/2024

Sample Description: Sample Quantity:

Nr Workshop Borewell (GW) 500 ml

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

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

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/504D/76A/02

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 03/06/2024



# SAMPLE DETAILS

Lab ID:

Lab/PN/504D/76A/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Old Pit Reservior (GW)

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

23/05/2024 25/05/2024

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

27/05/2024

03/06/2024

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



9 End of Report

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/504D/76A/03

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 03/06/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/504D/76A/03

Sample Drawn By: Sample Type: Laboratory Representative

Water

Sample Description:

Kurmuda Plant (GW)

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

23/05/2024

Sample Receipt Date: Analysis Start Date: 25/05/2024 27/05/2024

Analysis End Date:

03/06/2024

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





Authorized Signatory Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/504D/76A/04

M/s Moil Limited

Dogribuzurg Manganese Mines L1=69.50 Ha Tah. Tumsar Dist. Bhandara (M.S)



# SAMPLE DETAILS

Lab ID:

Lab/PN/504D/76A/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity:

Sample Condition:

Pond Nr Shiv Mandir (GW)

500 ml

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

03/06/2024 GGMPL/WI/27A

23/05/2024

25/05/2024

27/05/2024

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 --

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/502D/76B/01

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/502D/76B/01

Sampling Date:

23/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

25/05/2024 27/05/2024

Sample Type:

Water

3.8 L

Analysis Start Date: Analysis End Date:

03/06/2024

Sample Description:

Syndicate Colony (DW)

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing.

Sealed

Specification: Sr. No **Parameters** Results Unil Test Method PL Alkalinity as CaCO3 130.00 mg/L APHA 23rd Edition (2320 B) 200 600 2 Calcium as Ca 35.27 mg/L APHA 23rd Edition (3500 Ca B) 75 200 Chloride 3 28.49 mg/L IS 3025 -Part 32 250 1000 4 Colour BQL (QL=1) CU IS 3025 Part-4 5 15 5 Magnesium as Mg 10.69 mg/L APHA 23rd Edition (3500 Mg B) 30 100 6 Odour Agreeable IS 3025 Part 5 Agreeable Agreeable No pH at 25 °C 7.58 IS 3025-Part 11 6.5-8.5 Relaxation 8 Sulphate 24.66 mg/L APHA 23rd Edition (4500 SO4 E) 200 400 9 Total Dissolved Solids (TDS) 212.00 mg/L APHA 23rd Edition (2540 C) 500 2000 10 Total Hardness as CaCO3 132.00 mg/L APHA 23rd Edition (2340 C) 200 600 Total Suspended Solids (TSS) 11 BQL (QL=5) mg/L APHA 23rd Edition (2540 D) NS NS

AL & PL as per IS 10500.

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



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/502D/76B/01

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/502D/76B/01

Sampling Date:

23/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

25/05/2024

Sample Type:

Water

Analysis Start Date: Analysis End Date:

27/05/2024 03/06/2024

Sample Description:

Syndicate Colony (DW)

GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.8 L

Sampling Method:

Satisfactory

Packing:

Sealed

Specification: Sr.No **Parameters** Results Unit Test Method AL PL 12 Turbidity BQL (QL=0.1) NTU APHA 23rd Edition (2130 B): 1 5 No BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.3 Relaxation Manganese BQL (QL=0.05) GGMPL/SOP/W & WW/46 mg/L 0.1 0.3 15 Fluoride (F) 0.38 mg/L APHA 23rd Edn 4500 F D 1.0 1.5 No 16 Nitrate 0.51 mg/L APHA 23rd Edn 4500 NO3 B 45 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/502D/76B/02

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)



### SAMPLE DETAILS

Lab ID:

La

Lab/PN/502D/76B/02

Sampling Date:

23/05/2024

Sample Drawn By:

Laboratory Representative

Pond Near Filter Plant (GW)

Sample Receipt Date:

25/05/2024 27/05/2024

Sample Type: Sample Description: Water

Analysis Start Date: Analysis End Date:

03/06/2024

Sample Quantity:

Sample Condition:

3.8 L

Sampling Method:

GGMPL/WI/27A

Satisfactory

Packing:

Sealed

Specification:

						becirication.
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	172.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	38.47	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	38.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.71	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.03	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.82		IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	29.05	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	254.00	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





Authorized Signatory Manish Kumawat

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/502D/76B/02

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Lab/PN/502D/76B/02

Laboratory Representative

Pond Near Filter Plant (GW)

Sample Quantity: Sample Condition:

Sample Drawn By:

Sample Description:

Sample Type:

3.8 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

23/05/2024 25/05/2024

27/05/2024

03/06/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	162.00	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	1.62	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 Nidhi Shah

--- End of Report ---

\*

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/502D/76B/03

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/502D/76B/03

Laboratory Representative

Ambient Air

Near Siren Room Dump

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

23/05/2024 24/05/2024

25/05/2024

27/05/2024-03/06/2024

24 25±5°C

Sr.N	Parameters Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.26	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.09	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.35	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.48	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	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

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

Analyzed By Nidhi Shah

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/502D/76B/03

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



TC-7073

27/05/2024-03/06/2024

# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Lab/PN/502D/76B/03 Laboratory Representative

Ambient Air

Near Siren Room Dump

Ambient Temperature Satisfactory

Sampling Start Date: 23/05/2024 Sampling End Date: 24/05/2024 25/05/2024

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

25±5°C

Env. CondSan	nple Receipt: Satisfacto	ry		Env. CondTesting:	25±5°C	
Sr.No	Parameters	Results	Unit	Test Method	NAAC	) Standards
12 Temper	rature	37	°C	GGMPL/SOP/MP/01		NS
13 Relative	Humidity	43	0/0	GGMPL/SOP/MP/01		NS

13	Relative Humidity	43	%	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	10	m/s	GGMPL/SOP/MP/01:2020	NS

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

Nidhi Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/502D/76B/04

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description:

Lab/PN/502D/76B/04 Laboratory Representative Ambient Air Syndicate Colony

Env. Cond.-Sampling: Ambient Temperature Env. Cond.-Sample Receipt: Satisfactory

Sampling Start Date: 23/05/2024 Sampling End Date: 24/05/2024 Sample Receipt Date: 25/05/2024 27/05/2024-03/06/2024

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

24

25±5°C

1 Particulate Matter (PM10) 68.00 μg/m3 IS 5182- Part 23 100 2 Particulate Matter (PM2.5) 34.15 μg/m3 GGMPL/SOP/AA/60 Issue No.02 August 01 60 3 Sulphur Dioxide (SO2) 12.35 μg/m3 IS 5182- Part 2 80 4 Nitrogen Dioxide (NO2) 25.58 μg/m3 IS 5182- Part 6 80 5 Ozone (O3) 13.85 μg/m3 IS 5182- Part 9 180 6 Ammonia (NH3) 15.66 μg/Nm3 GGMPL/SOP/AA/62 Issue No.02 August 01 7 Benzene BQL (QL=2.5) μg/m3 IS 5182- Part 11 5 8 Benzo(a) pyrene BQL (QL=0.5) ng/m3 IS 5182- Part 12 1 9 Carbon Monoxide (CO) 1.09 mg/m3 IS 5182- Part 10 4 10 Nickel as Ni BQL (QL=5) ng/m3 USEPA Method IO 3.4 20						
2 Particulate Matter (PM2.5) 34.15 μg/m3 GGMPL/SOP/AA/60 Issue No.02 August 01 60 3 Sulphur Dioxide (SO2) 12.35 μg/m3 IS 5182-Part 2 80 4 Nitrogen Dioxide (NO2) 25.58 μg/m3 IS 5182- Part 6 80 5 Ozone (O3) 13.85 μg/m3 IS 5182- Part 9 180 6 Ammonia (NH3) 15.66 μg/Nm3 GGMPL/SOP/AA/62 Issue No.02 August 01 5 7 Benzene BQL (QL=2.5) μg/m3 IS 5182- Part 11 5 8 Benzo(a) pyrene BQL (QL=0.5) ng/m3 IS 5182- Part 12 1 9 Carbon Monoxide (CO) 1.09 mg/m3 IS 5182- Part 10 4 10 Nickel as Ni BQL (QL=5) ng/m3 USEPA Method IO 3.4 20	Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
2 Particulate Matter (PM2.5) 34.15 μg/m3 August 01 3 Sulphur Dioxide (SO2) 12.35 μg/m3 IS 5182-Part 2 80 4 Nitrogen Dioxide (NO2) 25.58 μg/m3 IS 5182- Part 6 80 5 Ozone (O3) 13.85 μg/m3 IS 5182- Part 9 180 6 Ammonia (NH3) 15.66 μg/Nm3 GGMPL/SOP/AA/62 Issue No.02 August 01 7 Benzene BQL (QL=2.5) μg/m3 IS 5182- Part 11 5 8 Benzo(a) pyrene BQL (QL=0.5) ng/m3 Is 5182- Part 12 1 9 Carbon Monoxide (CO) 1.09 mg/m3 IS 5182- Part 10 4 10 Nickel as Ni BQL (QL=5) ng/m3 USEPA Method IO 3.4 20	1	Particulate Matter (PM10)	68.00	μg/m3	IS 5182- Part 23	100
4 Nitrogen Dioxide (NO2) 25.58 μg/m3 IS 5182- Part 6 80 5 Ozone (O3) 13.85 μg/m3 IS 5182- Part 9 180 6 Ammonia (NH3) 15.66 μg/Nm3 GGMPL/SOP/AA/62 Issue No.02 August 01 7 Benzene BQL (QL=2.5) μg/m3 IS 5182- Part 11 5 8 Benzo(a) pyrene BQL (QL=0.5) ng/m3 IS 5182- Part 12 1 9 Carbon Monoxide (CO) 1.09 mg/m3 IS 5182- Part 10 4 10 Nickel as Ni BQL (QL=5) ng/m3 USEPA Method IO 3.4	2	Particulate Matter (PM2.5)	34.15	µg/m3		60
5 Ozone (O3) 13.85 μg/m3 IS 5182- Part 9 180 6 Ammonia (NH3) 15.66 μg/Nm3 GGMPL/SOP/AA/62 Issue No.02 August 01 7 Benzene BQL (QL=2.5) μg/m3 IS 5182- Part 11 5 Benzo(a) pyrene BQL (QL=0.5) ng/m3 Is 5182- Part 12 1 Carbon Monoxide (CO) 1.09 mg/m3 IS 5182- Part 10 4 10 Nickel as Ni BQL (QL=5) ng/m3 USEPA Method IO 3.4	3	Sulphur Dioxide (SO2)	12.35	µg/m3	IS 5182-Part 2	80
6 Ammonia (NH3)  15.66 μg/Nm3 GGMPL/SOP/AA/62 Issue No.02 August 01  7 Benzene  BQL (QL=2.5) μg/m3 IS 5182- Part 11  5 Benzo(a) pyrene  BQL (QL=0.5) ng/m3 Is 5182- Part 12  1 Carbon Monoxide (CO)  1.09 mg/m3 IS 5182- Part 10  4 VIOLED Nickel as Ni  BQL (QL=5) ng/m3 USEPA Method IO 3.4	4	Nitrogen Dioxide (NO2)	25.58	µg/m3	IS 5182- Part 6	80
6       Animonia (NAS)       15.66       μg/Nm3       August 01       400         7       Benzene       BQL (QL=2.5)       μg/m3       IS 5182- Part 11       5         8       Benzo(a) pyrene       BQL (QL=0.5)       ng/m3       Is 5182- Part 12       1         9       Carbon Monoxide (CO)       1.09       mg/m3       IS 5182- Part 10       4         10       Nickel as Ni       BQL (QL=5)       ng/m3       USEPA Method IO 3.4       20	5	Ozone (O3)	13.85	µg/m3	IS 5182- Part 9	180
8       Benzo(a) pyrene       BQL (QL=0.5)       ng/m3       Is 5182- Part 12       1         9       Carbon Monoxide (CO)       1.09       mg/m3       IS 5182- Part 10       4         10       Nickel as Ni       BQL (QL=5)       ng/m3       USEPA Method IO 3.4       20	6	Ammonia (NH3)	15.66	μg/Nm3	A CONTRACTOR OF THE PROPERTY O	400
9 Carbon Monoxide (CO) 1.09 mg/m3 IS 5182- Part 10 4 10 Nickel as Ni BQL (QL=5) ng/m3 USEPA Method IO 3.4 20	7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
10 Nickel as Ni BQL (QL=5) ng/m3 USEPA Method IO 3.4 20	8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
	9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
11 Arsenic as As BOL (OL = 1) pg/m3 LISEPA Method IO 3 4	10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11 / Hading 43 / 13	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 Nidhi Shah

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/502D/76B/04

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



### SAMPLE DETAILS

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

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/502D/76B/04 Laboratory Representative Ambient Air

Syndicate Colony

Ambient Temperature

Sampling Start Date: 23/05/2024 Sampling End Date: 24/05/2024 Sample Receipt Date: 25/05/2024

Analysis start- End Date:

27/05/2024-03/06/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	38	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	44	%	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	10	m/s	GGMPL/SOP/MP/01:2020	NS

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

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/502D/76B/05

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

23/05/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/502D/76 B/05A	Foot Wall Haulage Road	Day Time	dB(A)Leq	IS 4758	62.2	
2	Lab/PN/502D/76 B/05B	Near Siren Room Dump	Day Time	dB(A)Leq	IS 4758	64.4	

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

Nidhi Shah

End of Report

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/505D/76B/01

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 03/06/2024



# SAMPLE DETAILS

Lab ID:

Lab/PN/505D/76B/01

Sample Drawn By:

Laboratory Representative

Sample Type: Water

Sample Description:

Drinking Water of Syndicate Colony (DW)

Sample Quantity:

Sample Condition:

500 ml

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

23/05/2024

25/05/2024

27/05/2024

03/06/2024

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

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/505D/76B/02

M/s Moil Limited

Dogribuzurg Manganese Mines L2=53.98 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 03/06/2024



23/05/2024

25/05/2024

27/05/2024

03/06/2024

# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/505D/76B/02

Laboratory Representative Ground Water

Pond Near Filter Plant (GW) 500 ml

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

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

Analyzed By Nidhi Shah

AHMEDABAD 9 \* End of Report -

Authorized Signatory Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/503D/76C/01

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Lab/PN/503D/76C/01

Sampling Date:

23/05/2024

Sample Drawn By:

Laboratory Representative

G.W Of Mine Pit Discharge

Sample Receipt Date:

25/05/2024 25/05/2024

Sample Type: Sample Description: Water

Analysis Start Date: Analysis End Date:

03/06/2024

Sample Quantity:

Sample Condition:

3.5 L

Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

					Specification
Parameters	Results	Unit	Test Method	AL	PL
Alkalinity as CaCO3	185.00	mg/L	APHA 23rd Edn 2320 B	200	600
Calcium as Ca	42.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
Chloride	64.97	mg/L	IS 3025- Part 32	250	1000
Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
Fluoride	0.52	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
Magnesium as Mg	29.16	mg/L	APHA 23rd Edn 3500 Mg B	30	100
Odour	Agreeable		IS 3025- Part 5	Agreeab	le Agreeabl
pH at 25 °C	7.85		IS 3025- Part 11	6.5-8.5	No relaxation
Sulphate	52.45	mg/L	APHA 23rd Edn 4500 SO4 I	200	400
Total Dissolved Solids (TDS)	350.00	mg/L	APHA 23rd Edn 2540 C	500	2000
Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
	Alkalinity as CaCO3  Calcium as Ca  Chloride  Colour  Fluoride  Magnesium as Mg  Odour  pH at 25 °C  Sulphate  Total Dissolved Solids (TDS)	Alkalinity as CaCO3 185.00  Calcium as Ca 42.08  Chloride 64.97  Colour BQL (QL=1)  Fluoride 0.52  Magnesium as Mg 29.16  Odour Agreeable  pH at 25 °C 7.85  Sulphate 52.45  Total Dissolved Solids (TDS) 350.00	Alkalinity as CaCO3 185.00 mg/L  Calcium as Ca 42.08 mg/L  Chloride 64.97 mg/L  Colour BQL (QL=1) CU  Fluoride 0.52 mg/L  Magnesium as Mg 29.16 mg/L  Odour Agreeable -  pH at 25 °C 7.85 -  Sulphate 52.45 mg/L  Total Dissolved Solids (TDS) 350.00 mg/L	Alkalinity as CaCO3	Parameters         Results         Unit         Test Method         AL           Alkalinity as CaCO3         185.00         mg/L         APHA 23rd Edn 2320 B         200           Calcium as Ca         42.08         mg/L         APHA 23rd Edn 3500 Ca B         75           Chloride         64.97         mg/L         IS 3025- Part 32         250           Colour         BQL (QL=1)         CU         IS 3025- Part 4         5           Fluoride         0.52         mg/L         APHA 23rd Edn 4500 F D         1.0           Magnesium as Mg         29.16         mg/L         APHA 23rd Edn 3500 Mg B         30           Odour         Agreeable         -         IS 3025- Part 5         Agreeab           pH at 25 °C         7.85         -         IS 3025- Part 11         6.5-8.5           Sulphate         52.45         mg/L         APHA 23rd Edn 4500 SO4 E         200           Total Dissolved Solids (TDS)         350.00         mg/L         APHA 23rd Edn 2540 C         500

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/503D/76C/01

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024

Specification:

No

Relaxation

45



TC-7073

### SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/503D/76C/01

ative

23/05/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sampling Date: Sample Receipt Date: Analysis Start Date:

APHA 23rd Edn 4500 NO3 B

25/05/2024 25/05/2024

Sample Type: Sample Description:

G.W Of Mine Pit Discharge

5.49

Analysis End Date:

03/06/2024

Sample Quantity: Sample Condition:

16

Nitrate

3.5 L

Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Sr.No **Parameters** Results Unit Test Method AL PL 12 Total Hardness as CaCO3 225.00 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 No BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.3 relaxation 15 Manganese BQL (QL=0.05) mg/L GGMPL/SOP/W & WW/46 0.1 0.3

mg/L

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali AHMEDABAD P

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/503D/76C/02

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Lab/PN/503D/76C/02

Sampling Date: Sample Receipt Date: 23/05/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

25/05/2024 25/05/2024

Sample Description:

G.W of Piezometer Borewell

Analysis Start Date: Analysis End Date: Sampling Method:

03/06/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

3.5 L Satisfactory

Packing:

Sealed

Specification:

					- 1	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	226.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	56.11	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	82.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.50	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	26.73	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	8.35		IS 3025- Part 11	6.5 to 8.5	No
9	Sulphate	52.55	mg/L	APHA 23rd Edn 4500 SO4 E	200	Relaxation 400
10	Total Dissolved Solids (TDS)	384.00	mg/L	APHA 23rd Edn 2540 C		2000
11	Total Suspended Solids (TSS)	16.00	mg/L	APHA 23rd Edn 2540 D		NS
12	Total Hardness as CaCO3	250.00	mg/L	APHA 23rd Edn 2340 C		600
						5.55

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/503D/76C/02

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/503D/76C/02

Laboratory Representative

Water

G.W of Piezometer Borewell 3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

23/05/2024

25/05/2024 25/05/2024 03/06/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parame	ters Results	Unit	Test Method	AL	PL
13	Turbidity	4.0	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	6.13	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

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

Priyanka Shrimali

--- End of Report ---

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/503D/76C/03

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/503D/76C/03

Laboratory Representative

Ambient Air

Near Haulage Road viewpoint

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

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

23/05/2024 24/05/2024 25/05/2024

25/05/2024-03/06/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.00	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.90	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.33	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.43	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	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

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/503D/76C/03

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



TC-7073

## SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/503D/76C/03 Laboratory Representative

Ambient Air

Near Haulage Road viewpoint Ambient Temperature

Satisfactory

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

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

23/05/2024 24/05/2024 25/05/2024

25/05/2024-03/06/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	38	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	45	%	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	10.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali Author Manis

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/503D/76C/04

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/503D/76C/04

Laboratory Representative

Ambient Air

Near Mine Hospital Ambient Temperature

Satisfactory

Sampling Start Date: 23/05/2024 Sampling End Date: 24/05/2024

Sample Receipt Date: 25/05/2024 Analysis start- End Date: 25/05/2024

25/05/2024-03/06/2024

Total Sampling hours: Env. Cond.-Testing:

25±5°C

24

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.05	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)	16.74	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.95	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.28	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.94	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)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/503D/76C/04

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/503D/76C/04

Laboratory Representative

Ambient Air

Near Mine Hospital Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

23/05/2024

24/05/2024 25/05/2024

25/05/2024-03/06/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	45	%	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	10.8	m/s	GGMPL/SOP/MP/01:2020	NS

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

Priyanka Shrimali

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/503D/76C/05

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

23/05/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1		Near Haulage Road View Point	Day Time	dB(A)Leq	IS 4758	58.6	
2	Lab/PN/503D/76 C/05B	Near Mine Hospital	Day Time	dB(A)Leq	IS 4758	56.4	-

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/506D/76C/01

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)



TC-7073

## SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/506D/76C/01

Laboratory Representative

Ground Water

Sample Description:

Mine Pit Discharge (GW)

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

23/05/2024 Sample Receipt Date: 25/05/2024 Analysis Start Date: 27/05/2024 Analysis End Date: 03/06/2024

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



Authorized Signatory Dr. Haragobinda Srichandan

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Report Number: GGMPL/PN/506D/76C/02

M/s Moil Limited

Dogribuzurg Manganese Mines L3=46.25 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 03/06/2024



## SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/506D/76C/02

Laboratory Representative

Ground Water

Piezometer Borewell (GW)

Sample Quantity: Sample Condition:

Sample Description:

500 ml Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

03/06/2024 GGMPL/WI/27A

23/05/2024

25/05/2024

27/05/2024

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



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Authorized Signatory Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/514D/76D/01

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/514D/76D/01 Laboratory Representative

Water

D.W of Near Pit Office

Satisfactory

3.5 L

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: Packing:

24/05/2024 26/05/2024

27/05/2024 03/06/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	149.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	48.09	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	60.48	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	19.44	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable		IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.85	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
8	Sulphate	39.87	mg/L	APHA 23rd Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	300.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	200.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	12.00	mg/L	APHA 23rd Edition (2540 D)	NS	NS
12	Turbidity	1.9	NTU	APHA 23rd Edition (2130 B):	1	5

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/514D/76D/01

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/514D/76D/01

Laboratory Representative Water

D.W of Near Pit Office

3.5 L Satisfactory Sampling Date:

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

Sampling Method:

Packing:

GGMPL/WI/27A

24/05/2024

26/05/2024

27/05/2024

03/06/2024

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	BQL (QL=0.1)	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
16	Nitrate	2.92	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Priyanka Shrimali

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/514D/76D/02

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/514D/76D/02

Laboratory Representative

Ambient Air Near Pit Office

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

24/05/2024

25/05/2024 26/05/2024

27/05/2024-03/06/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.87	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.14	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.35	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.63	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	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)	1.10	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 Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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Report Number: GGMPL/PN/514D/76D/02

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/514D/76D/02 Laboratory Representative

Ambient Air Near Pit Office Ambient Temperature

Satisfactory

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

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

24/05/2024 25/05/2024 26/05/2024

27/05/2024-03/06/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	41	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	46	%	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	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

End of Report --

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/514D/76D/03

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



# SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

24/05/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1 La	b/PN/514D/76 D/03A	Near Pit Office	Day Time	dB(A)Leq	IS 4758	65.8	

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

Analyzed By Priyanka Shrimali

--- End of Report ---

Authorized Signatory Manish Kumawat

Page-No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/517D/76D/01

M/s Moil Limited

Dogribuzurg Manganese Mines L4=4.07 Ha Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 03/06/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/517D/76D/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description: Sample Quantity: Sample Condition:

Near Pit Office (DW)

Satisfactory

500 ml

Sampling Date:

Sample Receipt Date:

Analysis Start Date: 27/05/2024

Analysis End Date:

03/06/2024 GGMPL/WI/27A

24/05/2024

26/05/2024

Sampling Method:

Sealed

Packing:

Specification:

1 Total coliform Absent per 100ml AF	APHA 9222 A&B 24th Edition 2021 Abser	nt Absent
	ADSCI	TOSEIIC
2 E.coli Absent per 100ml AF	APHA 9222H 24th Edition 2021 Abser	nt Absent

AL & PL as per IS 10500.

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

Analyzed By

End of Report ---

\*

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/515D/76E/01

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/515D/76E/01

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Description:

At Siding Office (DW)

Sample Quantity: Sample Condition: 3.8 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

Sealed

24/05/2024

26/05/2024

27/05/2024

03/06/2024

						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	91.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	36.87	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	32.48	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	7.77	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeabl	e Agreeable
7	pH at 25 °C	7.69	-	IS 3025-Part 11	6.5-8.5	No
8	Sulphate	26.71	mg/L	APHA 23rd Edition (4500 SO4 E)	200	Relaxation 400
9	Total Dissolved Solids (TDS)	178.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	124.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

\*

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/515D/76E/01

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/515D/76E/01

Laboratory Representative Water

At Siding Office (DW)

3.8 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

GGMPL/WI/27A

Sealed

24/05/2024

26/05/2024

27/05/2024

03/06/2024

Specification:

Sr.No	Parame	ters Results	Unit	Test Method	AL	PL
12	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edition (2130 B):	1	5
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.29	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	BQL (QL=0.5)	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 Nidhi Shah

\* --- End of Report --- Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/515D/76E/02

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/515D/76E/02

Sampling Date:

24/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

26/05/2024

Sample Type:

Ground Water

Analysis Start Date:

27/05/2024 03/06/2024

Sample Description:

Borewell Water Near Balapur Hamesha Camp Analysis End Date:

GGMPL/WI/27A

Sample Quantity: Sample Condition: (GW) 3.8 L

Satisfactory

Sampling Method:

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	164.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	48.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	47.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.72	mg/L	APHA 23rd Edn 4500 F D	1	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	7.82	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	34.02	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	283.00	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 Nidhi Shah

<del>AHME</del>DAB

**Authorized Signatory** Manish Kumawat

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Report Number: GGMPL/PN/515D/76E/02

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/515D/76E/02

Sampling Date:

24/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

26/05/2024

Sample Type:

Ground Water

Analysis Start Date:

27/05/2024

Sample Description:

Borewell Water Near Balapur Hamesha Camp Analysis End Date:

03/06/2024

Sample Quantity:

(GW) 3.8 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	174.00	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	1.04	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





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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/515D/76E/03

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Env. Cond.-Sample Receipt:

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling: Lab/PN/515D/76E/03

Laboratory Representative

Ambient Air

Near Siding Office

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

27/05/2024-03/06/2024

24/05/2024

25/05/2024

26/05/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.39	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.15	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.27	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.05	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.24	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	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 Nidhi Shah

**Authorized Signatory** Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/515D/76E/03

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Lab/PN/515D/76E/03

Laboratory Representative

Ambient Air

Near Siding Office

Sampling Start Date: Sampling End Date:

Sample Receipt Date:

Analysis start- End Date:

24/05/2024

25/05/2024 26/05/2024

27/05/2024-03/06/2024

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

**Ambient Temperature** 

Satisfactory

Total Sampling hours:

Env. Cond.-Testing:

24

25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
rature	41	°C	GGMPL/SOP/MP/01	NS
e Humidity	26	%	GGMPL/SOP/MP/01	NS
	0.0	mm	GGMPL/SOP/MP/01:2020	NS
	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
peed	10	m/s	GGMPL/SOP/MP/01:2020	NS
(	Parameters rature e Humidity I	rature 41 e Humidity 26 I 0.0 BQL (QL=0.001)	rature 41 °C e Humidity 26 % I 0.0 mm BQL (QL=0.001) μg/m3	rature 41 °C GGMPL/SOP/MP/01 e Humidity 26 % GGMPL/SOP/MP/01  1 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 Nidhi Shah

--- End of Report ---

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/515D/76E/04

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Description:

Sample Type:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/515D/76E/04

Laboratory Representative

Ambient Air

Near Loading Area

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

25/05/2024 26/05/2024

24/05/2024

27/05/2024-03/06/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.51	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.40	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.31	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.68	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	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

Analyzed By Nidhi Shah

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

**Authorized Signatory** Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/515D/76E/04

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Description:

Sample Type:

Env. Cond.-Sampling:

Lab/PN/515D/76E/04

Laboratory Representative

Ambient Air Near Loading Area

Ambient Temperature

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

25/05/2024 26/05/2024

24/05/2024

27/05/2024-03/06/2024

24

Env. CondSample Receipt:	Satisfactory	Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	41	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	26	%	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	10	m/s	GGMPL/SOP/MP/01:2020	NS
10	Willia Speed	10	111/5	GGINFL/30F/NF/01.2020	IV.

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

Ahalyzed By Nidhi Shah

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Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/515D/76E/05

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 04/06/2024



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

24/05/2024

Source Noise

r.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/515D/76 E/05A	Near Siding Office	Day Time	dB(A)Leq	IS 4758	67.2	_
2	Lab/PN/515D/76 E/05B	Near Loading Area	Day Time	dB(A)Leq	IS 4758	68.9	- -

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

Nidhi Shah

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Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/518D/76E/01

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 03/06/2024



TC-7073

## SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/518D/76E/01

Sampling Date: Sample Receipt Date: 24/05/2024 26/05/2024

Sample Type:

Water

Analysis Start Date:

27/05/2024

Sample Description: Sample Quantity:

Railway Siding office (DW) 500 ml

Laboratory Representative

Analysis End Date: Sampling Method:

03/06/2024 GGMPL/WI/27A

Sample Condition:

Satisfactory

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

\* End of Report

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/518D/76E/02

M/s Moil Limited

Dogribuzurg Railway Siding Tah. Tumsar Dist. Bhandara (M.S)

Reporting Date: 03/06/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/518D/76E/02

Sampling Date:

24/05/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

26/05/2024

Sample Type:

Ground Water

Analysis Start Date:

27/05/2024

Sample Description:

Borewell Water near Balapur Hamesha Camp Analysis End Date:

03/06/2024

Sample Quantity:

(GW) 500 ml

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No

Parameters

Results

Unit

Test Method

AI

PL

Total coliform

Absent

per 100ml

APHA 9221B 24th Edition 2021

Absent

Absent

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

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--- End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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