

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

Mobile No: +91-/0690/2001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/01

M/s Moil Limited

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



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Laboratory Representative Water

Sample Type: Sample Description:

Nr Workshop Borewell (GW)

Lab/PN/1643C/76A/V3/01

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/11/2023

24/11/2023 25/11/2023 01/12/2023

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.51	-	IS 3025-Part 11	6.5 - 8.5	No Relaxation
2	Alkalinity as CaCO3	144.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	34.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.49	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	26.25	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	262.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	174.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	14.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah



Authorized Signatory Payal Patel

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Report Number: GGMPL/PN/1643C/76A/V3/01

M/s Moil Limited

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

Reporting Date: 02/12/2023



## SAMPLE DETAILS

Lab ID:

Lab/PN/1643C/76A/V3/01

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Nr Workshop Borewell (GW)

Sample Condition:

Sample Description:

Sample Quantity:

3.5L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/11/2023

24/11/2023 25/11/2023 01/12/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.63	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

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AHMEDABAD

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/01A

M/s Moil Limited

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

Reporting Date: 02/12/2023

# SAMPLE DETAILS

Lab ID:

Lab/PN/1643C/76A/V3/01

21/11/2023

Sample Drawn By:

Laboratory Representative

24/11/2023

Sample Type: Sample Description: Water Nr Workshop Borewell (GW) 25/11/2023

Analysis Start Date: Analysis End Date: Sampling Method:

Sample Receipt Date:

Sampling Date:

01/12/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5L Satisfactory

Packing:

Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

End of Rep

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/02

M/s Moil Limited

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

Reporting Date: 02/12/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/1643C/76A/V3/02

Laboratory Representative Water

Old Pit Reservior (GW) 3.5L

Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

21/11/2023 24/11/2023

25/11/2023 01/12/2023 GGMPL/WI/27A

Sealed

Specification:

					2000	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.61	=	IS 3025-Part 11	6.5 - 8.5	No Relaxation
2	Alkalinity as CaCO3	152.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	44.88	mg/L	APHA 23rd Edn 3500 Ca B	75	100
4	Chloride	34.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.46	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	23.32	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	3,415	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	27.45	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	270.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	208.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	12.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Analyzed By Nidhi Shah



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M/s Moil Limited

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

Reporting Date: 02/12/2023

# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/1643C/76A/V3/02 Laboratory Representative Water

Sampling Date: Sample Receipt Date: Analysis Start Date:

21/11/2023 24/11/2023 25/11/2023

Sample Type: Sample Description:

Old Pit Reservior (GW)

Analysis End Date: 01/12/2023 Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 3.5L 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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	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

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M/s Moil Limited

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

Reporting Date: 02/12/2023

## SAMPLE DETAILS

Lab ID:

J. I- D..... B...

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/1643C/76A/V3/02

Laboratory Representative Water

Old Pit Reservior (GW) 3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/11/2023

24/11/2023 25/11/2023 01/12/2023

GGMPL/WI/27A

Sealed

Specification:

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

AL & PL As Per IS 10500

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

Analyzed By Nidhi Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/03

M/s Moil Limited

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



# SAMPLE DETAILS

Lab ID:

Lab/PN/1643C/76A/V3/03

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description: Sample Quantity:

Kurmuda Plant (GW)

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

GGMPL/WI/27A Sealed

21/11/2023

24/11/2023

25/11/2023

01/12/2023

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	6.9	-1	IS 3025-Part 11	6.5 - 8.5	No Relaxation
2	Alkalinity as CaCO3	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	38.47	mg/L	APHA 23rd Edn 3500 Ca B	75	100
4	Chloride	45.88	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.32	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	12.63	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	33.06	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	262.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	148.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	14.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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





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Report Number: GGMPL/PN/1643C/76A/V3/03

M/s Moil Limited

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

Reporting Date: 02/12/2023



21/11/2023

24/11/2023

25/11/2023

01/12/2023

# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/1643C/76A/V3/03 Laboratory Representative

Water

Sample Description:

Kurmuda Plant (GW)

Sample Quantity:

3.5L Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

GGMPL/WI/27A 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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	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 Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/03A

M/s Moil Limited

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

Reporting Date : 02/12/2023

# SAMPLE DETAILS

Lab ID:

Lab/PN/1643C/76A/V3/03

21/11/2023

Sample Drawn By: Sample Type: Laboratory Representative

24/11/2023 25/11/2023

Sample Description:

Water Kurmuda Plant (GW) 25/11/2023 01/12/2023

Sample Quantity: Sample Condition:

3.5L Satisfactory Analysis End Date: Sampling Method:

Sample Receipt Date:

Analysis Start Date:

Sampling Date:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah AHMEDABAD P

Authorized Signatory Payal Patel

Page No: 1/1

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# CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1643C/76A/V3/04

M/s Moil Limited

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

Reporting Date: 02/12/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/1643C/76A/V3/04

Laboratory Representative Water

Pond Nr Shiv Mandir (GW) 3.5L

Satisfactory

Sampling Date:

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

Packing:

21/11/2023

24/11/2023 25/11/2023 01/12/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.35	=	IS 3025-Part 11	6.5 - 8.5	No Relaxation
2	Alkalinity as CaCO3	129.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	48.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.49	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	10.20	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	19.63	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	238.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	124.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	16.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/04

M/s Moil Limited

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



TC-7073

# SAMPLE DETAILS

Lab ID: Lab/PN/1643C/76A/V3/04 Sampling Date: 21/11/2023 Sample Drawn By: Laboratory Representative Sample Receipt Date: 24/11/2023 Sample Type: Water Analysis Start Date: 25/11/2023 Sample Description: Pond Nr Shiv Mandir (GW) Analysis End Date: 01/12/2023 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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.60	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/1643C/76A/V3/04A

M/s Moil Limited

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

Reporting Date: 02/12/2023

# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/1643C/76A/V3/04 Laboratory Representative

Water

Pond Nr Shiv Mandir (GW)

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: Packing:

01/12/2023 GGMPL/WI/27A

21/11/2023

24/11/2023

25/11/2023

Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

End of Report

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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/05

M/s Moil Limited

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

Reporting Date: 02/12/2023



# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1643C/76A/V3/05 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:

21/11/2023 22/11/2023

24/11/2023 25/11/2023-01/12/2023

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.17	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.32	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.55	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.12	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/05

M/s Moil Limited

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

Reporting Date: 02/12/2023



TC-7073

## SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1643C/76A/V3/05 Laboratory Representative

Ambient Air Nr Mine Workshop Ambient Temperature

Satisfactory

Sampling Start Date: 21/11/2023 Sampling End Date: 22/11/2023

Sample Receipt Date: 24/11/2023 Analysis start- End Date: 25/11/2023-01/12/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	45	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Nidhi Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/06

M/s Moil Limited

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

Reporting Date: 02/12/2023



TC-7073

# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1643C/76A/V3/06 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:

21/11/2023 22/11/2023

24/11/2023

25/11/2023-01/12/2023

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.83	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.31	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.28	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.09	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.54	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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/06

M/s Moil Limited

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

Reporting Date: 02/12/2023



# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1643C/76A/V3/06 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.-Testing: 25±5°C

21/11/2023 22/11/2023

24/11/2023

25/11/2023-01/12/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	42	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Nidhi Shah

- End of Report

HMEDABAD

Authorized Signatory Payal Patel

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/07

M/s Moil Limited

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

Reporting Date: 02/12/2023



TC-7073

# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1643C/76A/V3/07 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:

21/11/2023 22/11/2023

24/11/2023

25/11/2023-01/12/2023

Env. Cond.-Testing:

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	59.94	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2,5)	36.65	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.04	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.72	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.40	μg/m3	IS 5182- Part 9	100
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)	1.13	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 Nidhi Shah

Authorized Signatory Payal Patel

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/07

M/s Moil Limited

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

Reporting Date: 02/12/2023



TC-7073

## SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1643C/76A/V3/07 Laboratory Representative Ambient Air Kurmuda Grampanchayat Office

Ambient Temperature Satisfactory

Sampling Start Date: 21/11/2023 Sampling End Date: 22/11/2023 Sample Receipt Date: 24/11/2023 Analysis start- End Date: 25/11/2023-01/12/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	43	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Authorized Signatory Payal Patel

Page No: 2/2

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End of Report



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/08

M/s Moil Limited

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

Reporting Date: 02/12/2023



TC-7073

# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1643C/76A/V3/08 Laboratory Representative

Ambient Air Nr Mine Magazine Ambient Temperature

Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing:

24/11/2023

21/11/2023

22/11/2023

25/11/2023-01/12/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.83	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)	10.36	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.03	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.77	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.39	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah

Authorized Signatory Payal Patel

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/08

M/s Moil Limited

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

Reporting Date: 02/12/2023



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1643C/76A/V3/08 Laboratory Representative Ambient Air Nr Mine Magazine Ambient Temperature Satisfactory 

 Sampling Start Date:
 21/11/2023

 Sampling End Date:
 22/11/2023

 Sample Receipt Date:
 24/11/2023

 Analysis start- End Date:
 25/11/2023-01/12/2023

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

24

12 Temperature 34 °C GGMPL/SOP/MP/01	
22 15.mps/state/5	NS
13 Relative Humidity 43 % GGMPL/SOP/MP/01	NS
14 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4	1
15 Wind Speed 6.4 m/s GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Nidhi Shah

Authorized Signatory Payal Patel

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1643C/76A/V3/09

M/s Moil Limited

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

Reporting Date: 02/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

21/11/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1643C/7 6A/V3/09A	Near Mine Workshop	Day Time	dB(A)Leq	IS 4758	66.2	40
2	Lab/PN/1643C/7 6A/V3/09B	Near Haulage Road	Day Time	dB(A)Leq	IS 4758	62.1	
3	Lab/PN/1643C/7 6A/V3/09C	Near Crushing and Screening	Day Time	dB(A)Leq	IS 4758	68.9	-
4	Lab/PN/1643C/7 6A/V3/09D	Near Mine Magazine	Day Time	dB(A)Leq	IS 4758	64.3	

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

Analyzed By Nidhi Shah

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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1644C/76B/V3/01

M/s Moil Limited

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



# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/1644C/76B/V3/01 Laboratory Representative Sampling Date: Sample Receipt Date: Analysis Start Date:

21/11/2023 24/11/2023 25/11/2023

Sample Type: Sample Description:

Drinking Water of Syndicate Colony (DW)

Analysis End Date: Sampling Method:

04/12/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Sealed

Packing:

Specification:

					O <sub>F</sub>	occirication.
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.44	_	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	136.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	31.66	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	33.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.26	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.74	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	+	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	16.53	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	253.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	152.0	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As per IS 10500

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

Analyzed By Rajat Chauhan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1644C/76B/V3/01

M/s Moil Limited

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



# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Sample Quantity: 5 L

Sample Condition:

Sample Description:

Lab/PN/1644C/76B/V3/01

Laboratory Representative Water

Drinking Water of Syndicate Colony (DW)

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

21/11/2023

24/11/2023 25/11/2023 04/12/2023

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.55	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As per IS 10500

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

Analyzed By Rajat Chauhan AHMEDABAD End of Report -

Authorized Signatory Payal Patel

P.B. Puter

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1644C/76B/V3/01A

M/s Moil Limited

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

Reporting Date: 05/12/2023

# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/1644C/76B/V3/01

Laboratory Representative

Drinking Water of Syndicate Colony (DW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/11/2023

24/11/2023 25/11/2023 04/12/2023

GGMPL/WI/27A

Sealed

Specification:

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

AL & PL As per IS 10500

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

Analyzed By Rajat Chauhan AHMEDABAD End of Report

Authorized Signatory Payal Patel

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1644C/76B/V3/02

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:

Lab/PN/1644C/76B/V3/02

21/11/2023

Sample Drawn By:

Laboratory Representative

24/11/2023

Sample Type: Sample Description: Water

25/11/2023

G.W. Pond water filter plant

04/12/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Sampling Method: Packing:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Date:

Sealed

Specification:

					-	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.58	=1	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	140.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	34.07	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	47.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.24	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.68	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	22.14	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	263.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	166.0	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As per IS 10500

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

Analyzed By Rajat Chauhan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1644C/76B/V3/02

M/s Moil Limited

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

Reporting Date: 05/12/2023

# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/1644C/76B/V3/02 Laboratory Representative Water

Sampling Date: Sample Receipt Date: Analysis Start Date:

21/11/2023 24/11/2023 25/11/2023 04/12/2023

Sample Type: Sample Description:

G.W. Pond water filter plant

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 5 L 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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.41	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As per IS 10500

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

Analyzed By Rajat Chauhan HMEDABAC End of Report ---

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1644C/76B/V3/02A

M/s Moil Limited

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

Reporting Date: 05/12/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/1644C/76B/V3/02

21/11/2023

Sample Drawn By:

Laboratory Representative

24/11/2023

Sample Type: Sample Description: Water G.W. Pond water filter plant Sample Receipt Date: Analysis Start Date: 25/11/2023 04/12/2023

Sample Quantity:

Analysis End Date: Sampling Method:

Sampling Date:

GGMPL/WI/27A

Sample Condition:

Packing:

Sealed

Satisfactory

Specification:

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

AL & PL As per IS 10500

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

Analyzed By Rajat Chauhan

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End of Report -

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1644C/76B/V3/03

M/s Moil Limited

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

Reporting Date: 05/12/2023



TC-7073

# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Conc

Lab/PN/1644C/76B/V3/03 Laboratory Representative

Ambient Air

Near Siren Room Dump Ambient Temperature

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

25/11/2023-04/12/2023

21/11/2023

22/11/2023

24/11/2023

ndSample Receipt:	Satisfactory		Env. CondTesting:	25±5°	C
		D	 = 1 M (1 - 1		

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.36	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.08	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	18.52	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 Rajat Chauhan

Authorized Signatory Payal Patel

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Report Number: GGMPL/PN/1644C/76B/V3/03

M/s Moil Limited

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

Reporting Date: 05/12/2023



TC-7073

## SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1644C/76B/V3/03 Laboratory Representative

Near Siren Room Dump Ambient Temperature

Satisfactory

Ambient Air

Sampling Start Date: 21/11/2023 Sampling End Date: 22/11/2023

Sample Receipt Date: 24/11/2023 Analysis start- End Date: 25/11/2023-04/12/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Rajat Chauhan Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1644C/76B/V3/04

M/s Moil Limited

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

Reporting Date: 05/12/2023



TC-7073

# SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1644C/76B/V3/04

Laboratory Representative

Ambient Air Syndicate Colony Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

25/11/2023-04/12/2023 Env. Cond.-Testing:

25±5 °C

21/11/2023

22/11/2023

24/11/2023

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	71.41	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)	15.64	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.50	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.97	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 Rajat Chauhan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1644C/76B/V3/04

M/s Moil Limited

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

Reporting Date: 05/12/2023



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1644C/76B/V3/04

Laboratory Representative Ambient Air

Syndicate Colony Ambient Temperature

Satisfactory

Sampling Start Date: 21/11/2023 Sampling End Date: 22/11/2023 Sample Receipt Date: 24/11/2023

Analysis start- End Date: 25/11/2023-04/12/2023

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

Sr.No Parameters Results Unit Test Method	NAAQ Standards
12 Temperature 28 °C GGMPL/SOP/MP/01	NS
13 Relative Humidity 58 % GGMPL/SOP/MP/01	NS
14 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4	1
15 Wind Speed 4.0 m/s GGMPL/SOP/MP/01:20	020 NS

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

Analyzed By Rajat Chauhan Authorized Signatory Payal Patel

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M/s Moil Limited

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

Reporting Date: 05/12/2023



# SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

21/11/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1644C/7 6B/V3/05A	Foot Wall Haulage Road	Day time	dB(A)Leq	IS 4758	54.6	-
2	Lab/PN/1644C/7 6B/V3/05B	Near Siren Room Dump	Day time	dB(A)Leq	IS 4758	59.9	-

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

Analyzed By Rajat Chauhan

Authorized Signatory Payal Patel

Page No: 1/1

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# CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1645C/76C/V3/01

M/s Moil Limited

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

Reporting Date: 02/12/2023



# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/1645C/76C/V3/01 Laboratory Representative

Water Mine Pit Discharge (GW)

Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

21/11/2023

24/11/2023 24/11/2023 01/12/2023 GGMPL/WI/27A

Sealed

Specification:

						p
Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.85		IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	164.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	42.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	58.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.43	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	17.01	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	27.25	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	292.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	176.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah

Authorized Signatory Payal Patel

Page No: 1/2

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Report Number: GGMPL/PN/1645C/76C/V3/01

M/s Moil Limited

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

Reporting Date: 02/12/2023



# SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type:

Lab/PN/1645C/76C/V3/01 Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

24/11/2023 24/11/2023 01/12/2023

21/11/2023

Sample Description: Sample Quantity: Sample Condition:

Mine Pit Discharge (GW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Satisfactory

Sampling Date:

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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.05	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 Ritu Shah

AHMEDABAD End of Report ---

**Authorized Signatory** Payal Patel

P. B. Rufe

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1645C/76C/V3/01A

M/s Moil Limited

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

Reporting Date: 02/12/2023

# SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/1645C/76C/V3/01 Laboratory Representative

Water

Mine Pit Discharge (GW)

Satisfactory

Sampling Date:

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

Sampling Method: Packing:

21/11/2023

24/11/2023 24/11/2023 01/12/2023 GGMPL/WI/27A

Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Analyzed By

End of Report

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1645C/76C/V3/02

M/s Moil Limited

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



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1645C/76C/V3/02 Laboratory Representative

Sampling Date: Sample Receipt Date: 21/11/2023 24/11/2023 24/11/2023

Sample Drawn By: Sample Type: Sample Description:

Water Piezometer Borewell (GW)

Analysis Start Date: Analysis End Date: Sampling Method:

01/12/2023 GGMPL/WI/27A

Sample Quantity: Sample Condition:

5 L

Satisfactory Pack

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	8.21	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	180.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	56.91	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	65.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	2	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.46	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	16.28	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	37.07	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	318.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	209.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah



Authorized Signatory Payal Patel

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Report Number: GGMPL/PN/1645C/76C/V3/02

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID: Lab/PN/1645C/76C/V3/02 Sampling Date: 21/11/2023 Sample Drawn By: Laboratory Representative Sample Receipt Date: 24/11/2023 Sample Type: Analysis Start Date: 24/11/2023 Sample Description: Piezometer Borewell (GW) Analysis End Date: 01/12/2023 Sample Quantity: 5 L Sampling Method: GGMPL/WI/27A

Sample Condition: Satisfactory Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	3.62	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.75	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 Ritu Shah

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# CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1645C/76C/V3/02A

M/s Moil Limited

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

Reporting Date: 02/12/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/1645C/76C/V3/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Piezometer Borewell (GW)

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

21/11/2023

Sample Receipt Date: Analysis Start Date:

24/11/2023 24/11/2023

Analysis End Date: Sampling Method:

01/12/2023 GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1645C/76C/V3/03

M/s Moil Limited

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

Reporting Date: 04/12/2023



TC-7073

### SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1645C/76C/V3/03 Laboratory Representative

Ambient Air

Near Haulage Road View Point

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing: 25±5°C

22/11/2023 24/11/2023

21/11/2023

24/11/2023-02/12/2023

Sr.No **Parameters** Results Unit Test Method NAAQ Standards Particulate Matter (PM10) 67.31 IS 5182- Part 23 100 µg/m3 1 GGMPL/SOP/AA/60 Issue No.02 37.07 60 Particulate Matter (PM2.5) µg/m3 August 01 Sulphur Dioxide (SO2) 12.54 µg/m3 IS 5182-Part 2 80 Nitrogen Dioxide (NO2) 20.67 µg/m3 IS 5182- Part 6 80 5 Ozone (O3) 11.72 µg/m3 IS 5182- Part 9 100 GGMPL/SOP/AA/62 Issue No.02 Ammonia (NH3) 12.82 µg/Nm3 400 August 01 BQL (QL=2.5) IS 5182- Part 11 5 Benzene µg/m3 BQL (QL=0.5) Benzo(a) pyrene ng/m3 Is 5182- Part 12 Carbon Monoxide (CO) 1.10 mg/m3 IS 5182- Part 10 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 Ritu Shah

**Authorized Signatory** Payal Patel

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Report Number: GGMPL/PN/1645C/76C/V3/03

M/s Moil Limited

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

Reporting Date: 04/12/2023



TC-7073

### SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1645C/76C/V3/03 Laboratory Representative Ambient Air

Near Haulage Road View Point Ambient Temperature Satisfactory Sampling Start Date: 21/11/2023 Sampling End Date: 22/11/2023

Sample Receipt Date: 24/11/2023

Analysis start- End Date: 24/11/2023-02/12/2023

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	53	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Ritu Shah Authorized Signatory
Payal Patel

PB are

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1645C/76C/V3/04

M/s Moil Limited

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

Reporting Date: 02/12/2023



### SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1645C/76C/V3/04 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:

21/11/2023 22/11/2023

24/11/2023

24/11/2023-01/12/2023

Env. Cond.-Testing:

25±5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.15	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)	13.32	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.77	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
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)	1.03	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

Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1645C/76C/V3/04

M/s Moil Limited

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

Reporting Date: 02/12/2023



### SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1645C/76C/V3/04 Laboratory Representative Ambient Air Near Mine Hospital Ambient Temperature Satisfactory

21/11/2023 Sampling Start Date: Sampling End Date: 22/11/2023 Sample Receipt Date: 24/11/2023 Analysis start- End Date: 24/11/2023-01/12/2023 Total Sampling hours: 24

Env. Cond.-Testing: 25±5 °C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	53	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1645C/76C/V3/05

M/s Moil Limited

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

Reporting Date: 02/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory representative

Sampling Date:

Sample Description:

21/11/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1645C/7 6C/V3/05A	Near Haulage Road View Point	Day Time	dB(A)Leq	IS 4758	57.1	->
2	Lab/PN/1645C/7 6C/V3/05B	Near Mine Hospital	Day Time	dB(A)Leq	IS 4758	53.6	ME ALL

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

Analyzed By Ritu Shah

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Authorized Signatory Payal Patel

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1646C/76D/V3/01

M/s Moil Limited

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

Reporting Date: 06/12/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/1646C/76D/V3/01 Laboratory Representative

Water

Near Pit Office (DW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/11/2023

24/11/2023 25/11/2023

05/12/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.54	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	128.0	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	42.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	49.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	BQL (QL=0.1)	mg/L	APHA 23rd Edn 4500 F D	1.0	15
7	Magnesium as Mg	15.79	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeble	Agreeble
9	Sulphate	26.95	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	275.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	170.0	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	7.0	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

Kinjal Damor

**Authorized Signatory** Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1646C/76D/V3/01

M/s Moil Limited

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

Reporting Date: 06/12/2023



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/1646C/76D/V3/01

Laboratory Representative

Water

Near Pit Office (DW)

5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/11/2023

24/11/2023 25/11/2023

05/12/2023 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.0	NTU	APHA 23rd Edn 2130 B	1	5
		BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
	Iron as Fe		J.	APHA 23rd Edn 3120 B	0.1	0.3
15	Manganese as Mn	BQL (QL=0.05)	mg/L			No
16	Nitrate	3.69	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

Kinjal Damor

--- End of Report ---

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1646C/76D/V3/01A

M/s Moil Limited

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

Reporting Date: 06/12/2023

### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/1646C/76D/V3/01 Laboratory Representative Water

Near Pit Office (DW)

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

21/11/2023

24/11/2023 25/11/2023 05/12/2023

GGMPL/WI/27A

Sealed

Specification:

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

AL & PL As Per IS 10500

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

Kinjal Damor

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**Authorized Signatory** Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1646C/76D/V3/02

M/s Moil Limited

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

Reporting Date: 06/12/2023



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1646C/76D/V3/02

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:

21/11/2023 22/11/2023

24/11/2023

25/11/2023-05/12/2023

24

25±5°C Env. Cond.-Testing:

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.87	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.91	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.96	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.95	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.40	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.56	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)	1.02	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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1646C/76D/V3/02

M/s Moil Limited

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

Reporting Date: 06/12/2023



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1646C/76D/V3/02

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:

21/11/2023

22/11/2023 24/11/2023

25/11/2023-05/12/2023 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°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
	Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	NS
16	Willia Speed				

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

Kinjal Damor

--- End of Report ---

HAA

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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1646C/76D/V3/03

M/s Moil Limited

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

Reporting Date: 06/12/2023



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

21/11/2023

Source Noise

1 Lab/PN/1646C/7 Near Pit Office Day Time dB(A)Leq IS 4758 52.1 - 6D/V3/03	Norms	Reading	Test Method	Unit	Time	Location	Lab Id	Sr.No
		52.1	IS 4758	dB(A)Leq	Day Time	Near Pit Office	ab/PN/1646C/7 6D/V3/03	

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

Kinjal Damor

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1652C/76E/V3/01

M/s Moil Limited

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

Reporting Date: 08/12/2023



## SAMPLE DETAILS

Lab ID: ·

Lab/PN/1652C/76E/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

At Siding office (DW)

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

22/11/2023

Sample Receipt Date: Analysis Start Date:

26/11/2023 27/11/2023

Analysis End Date: Sampling Method:

07/12/2023 GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.58	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	118.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	14.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.27	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	11.91	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeble	v - 1	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	13.02	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	211.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	146.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	5.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Analyzed By Kinjal Damor

Authorized Signatory Payal Patel

Page No: 1/2

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Report Number: GGMPL/PN/1652C/76E/V3/01

M/s Moil Limited

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

Reporting Date: 08/12/2023

TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Condition:

Sample Description:

Sample Quantity:

At Siding office (DW) 3.5L

Satisfactory

Lab/PN/1652C/76E/V3/01

Laboratory Representative

Sampling Date:

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

Sampling Method:

Packing:

07/12/2023 GGMPL/WI/27A

Sealed

22/11/2023

26/11/2023

27/11/2023

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.14	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

Kinjal Damor

End of Report -

Authorized Signatory Payal Patel

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1652C/76E/V3/01A

M/s Moil Limited

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

Reporting Date: 08/12/2023

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/1652C/76E/V3/01 Laboratory Representative

At Siding office (DW)

Water

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method: Packing:

GGMPL/WI/27A

Sealed

22/11/2023

26/11/2023

27/11/2023

07/12/2023

Specification:

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

AL & PL As Per IS 10500

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

Kinjal Damor

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Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1652C/76E/V3/02

M/s Moil Limited

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

Reporting Date: 08/12/2023



### SAMPLE DETAILS

Lab ID:

Lab/PN/1652C/76E/V3/02

Sampling Date:

22/11/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

26/11/2023 27/11/2023

Sample Type:

Analysis Start Date:

Sample Description:

Borewell Water near Balapur Hamesha Camp Analysis End Date:

07/12/2023

Sample Quantity:

(GW) 3.5L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Chacification

					Sp	pecification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.23		IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	48.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	31.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.49	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	15.55	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	16.23	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	257.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	185.00	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 Kinjal Damor

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Report Number: GGMPL/PN/1652C/76E/V3/02

M/s Moil Limited

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

Reporting Date: 08/12/2023



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/1652C/76E/V3/02

Laboratory Representative Water

(GW) 3.5L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Borewell Water near Balapur Hamesha Camp Analysis End Date:

Sampling Method: Packing:

07/12/2023 GGMPL/WI/27A

22/11/2023

26/11/2023

27/11/2023

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
13	Turbidity	0.80	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.62	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 Kinjal Damor

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Report Number: GGMPL/PN/1652C/76E/V3/02A

M/s Moil Limited

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

Reporting Date: 08/12/2023

### SAMPLE DETAILS

Lab ID:

Lab/PN/1652C/76E/V3/02

Sampling Date:

22/11/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

26/11/2023 27/11/2023

Sample Type:

Water

Analysis Start Date: Borewell Water near Balapur Hamesha Camp Analysis End Date:

07/12/2023

Sample Description:

(GW)

Sampling Method:

GGMPL/WI/27A

Sample Quantity:

3.5L

Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Absent

PL

Sr.No Parameters\* Total Coliform (MPN/100ml) Results

Unit

Test Method

E.Coli (MPN/100 ml)

Absent

MPN/100ml IS 1622

Absent

Absent

MPN/100ml IS 1622

AL & PL As Per IS 10500

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

Kinjal Damor

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**Authorized Signatory** Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1652C/76E/V3/03

M/s Moil Limited

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

Reporting Date: 08/12/2023



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1652C/76E/V3/03

Laboratory Representative Ambient Air

Ambient Temperature

Near Siding Office

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

22/11/2023

23/11/2023 26/11/2023

27/11/2023-07/12/2023

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.40	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)	15.04	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.20	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.09	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.97	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor

HAHMED -

Authorized Signatory Payal Patel

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1652C/76E/V3/03

M/s Moil Limited

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

Reporting Date: 08/12/2023



## SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. 0

Lab/PN/1652C/76E/V3/03 Laboratory Representative

Ambient Air Near Siding Office Ambient Temperature

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

22/11/2023 23/11/2023 26/11/2023 27/11/2023-07/12/2023

corrar camping.	Ambient remperature	rotal Sampling nours.	24
CondSample Receipt:	Satisfactory	Env. CondTesting:	25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	30	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	43	%	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	8.6	m/s	GGMPL/SOP/MP/01:2020	NS
1	Temperature Relative Humidity Rainfall Lead	Temperature 30  Relative Humidity 43  Rainfall 0.0  Lead BQL (QL=0.001)	Temperature 30 °C Relative Humidity 43 % Rainfall 0.0 mm Lead BQL (QL=0.001) μg/m3	Temperature         30         °C         GGMPL/SOP/MP/01           Relative Humidity         43         %         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 Limit

Analyzed By Kinjal Damor

End of Report

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PBDD

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1652C/76E/V3/04

M/s Moil Limited

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

Reporting Date: 08/12/2023



### SAMPLE DETAILS

Lab ID: Sample Drawn

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1652C/76E/V3/04

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: 26/11/2023 27/11/2023

22/11/2023

23/11/2023

27/11/2023-07/12/2023 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.24	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32,91	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)	16.72	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.99	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	BQL (QL=5)	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor AHHEDAEAD & COOK OF THE CHARLES

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1652C/76E/V3/04

M/s Moil Limited

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

Reporting Date: 08/12/2023



## SAMPLE DETAILS

Lab ID: Sample Dray

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1652C/76E/V3/04

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: 22/11/2023 23/11/2023

23/11/2023 26/11/2023

27/11/2023-07/12/2023

g hours: 24 sting: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°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	8.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

- End of Report ---

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1652C/76E/V3/05

M/s Moil Limited

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

Reporting Date: 08/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

22/11/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1652C/7 6E/V3/05A	Nr. Siding office	Day Time	dB(A)Leq	IS 4758	63.5	-
2	Lab/PN/1652C/7 6E/V3/05B	Nr. Loding Area	Day Time	db(A)Leq	IS 4758	64.3	

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

Kinjal Damor

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/10

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1653C/76F/V3/10

Sampling Date:

22/11/2023

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

26/11/2023

Sample Type:

Stack

Analysis start- End Date:

27/11/2023-05/12/2023

Stack Height & Dia (m):

30 & 0.59

Stack Temperature (°C):

129

Stack Attached To:

CFB Boiler

Stack gas velocity (m/sec):

10.9

Fuel Used:

Coal

Volume of Air Sampled in NM3: 0.8034

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	12.26	ppm	IS 11255- Part 7	-
2	Particulate Matter	39.83	mg/Nm³	IS 11255- Part 1	
3	Sulphur Dioxides	17.82	ppm	IS 11255- Part 2	-

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

--- End of Report ---

Authorized Signatory Payal Patel

P-BAY

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/01

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)



### SAMPLE DETAILS

Lab ID:

Lab/PN/1653C/76F/V3/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Waste Water

Sample Description: Sample Quantity: Boiler Water (Inlet) (WW)

3.5L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

22/11/2023

26/11/2023 27/11/2023 05/12/2023

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.68	_	IS 3025- Part 11	-
2	Total Suspended Solids	22.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	= =
4	Chemical Oxygen Demand	65.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.10	mg/L	IS 3025- Part 38	H
6	BOD at 27 o C for 3 days	21.00	mg/L	IS 3025- Part 44	
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By Ritu Shah

--- End of Report ---

CHAA

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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/02

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/1653C/76F/V3/02

Laboratory Representative Water

RO Water Nr. Admin Office (DW)

3.5 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

22/11/2023

26/11/2023 27/11/2023 05/12/2023

GGMPL/WI/27A Sealed

Specification:

					3	pecification:
Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.21	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	126.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	30.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	32.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.56	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	10.20	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	24.64	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	214.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	118.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/02

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907



### SAMPLE DETAILS

Lab ID:

Lab/PN/1653C/76F/V3/02

Sampling Date:

22/11/2023

Sample Drawn By:

Laboratory Representative

Satisfactory

Sample Receipt Date: Analysis Start Date:

26/11/2023 27/11/2023

Sample Type: Sample Description:

RO Water Nr. Admin Office (DW)

Analysis End Date:

05/12/2023

Sample Quantity: Sample Condition: 3.5 L

Sampling Method:

GGMPL/WI/27A

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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.20	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

Analyzed By

AHMEDABAD End of Report

Authorized Signatory Payal Patel

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/02A

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/1653C/76F/V3/02 Laboratory Representative

Water

RO Water Nr. Admin Office (DW) 3.5 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

22/11/2023

26/11/2023 27/11/2023 05/12/2023

GGMPL/WI/27A

Sealed

Specification:

Reporting Date: 06/12/2023

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

AL & PL As Per IS 10500.

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

Analyzed By Ritu Shah

-- End of Report ---

AHMEDABAD

Authorized Signatory Payal Patel

P. B. Rute

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/03

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/1653C/76F/V3/03

Laboratory Representative

Sample Type:

Waste Water

Sample Description: Sample Quantity:

Drainage Water (Near Admin Office) (WW)

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

26/11/2023 27/11/2023

22/11/2023

05/12/2023 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.39	-	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	90.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	27.00	mg/L	IS 3025- Part 44	
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

Analyzed By Ritu Shah

--- End of Report ---

AHMEDABAD

**Authorized Signatory** Payal Patel

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/04

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)



### SAMPLE DETAILS

Lab ID:

Lab/PN/1653C/76F/V3/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

ETP Inlet (WW)

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

22/11/2023 26/11/2023

Sample Receipt Date: Analysis Start Date:

27/11/2023 05/12/2023

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.95	-0	IS 3025- Part 11	-
2	Total Suspended Solids	28.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	=
4	Chemical Oxygen Demand	65.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	20.00	mg/L	IS 3025- Part 44	
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	

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

Ritu Shah

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## **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/05

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 06/12/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1653C/76F/V3/05

Laboratory Representative

Ambient Air

Near Admin Office Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 22/11/2023

23/11/2023 26/11/2023

27/11/2023-05/12/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.75	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.36	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.19	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.79	µg/m3	IS 5182- Part 9	100
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)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Ritu Shah AHMEDABAD VI

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Page No: 1/2

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## **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/05

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 06/12/2023



### SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1653C/76F/V3/05 Laboratory Representative

Ambient Air
Near Admin Office
Ambient Temperature

Satisfactory

Sampling Start Date: 22/11/2023 Sampling End Date: 23/11/2023

Sample Receipt Date: 2 Analysis start- End Date: 2

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

26/11/2023

27/11/2023-05/12/2023 24

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	75	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Ritu Shah

End of Report

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Page No: 2/2

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## **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/06

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 06/12/2023



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1653C/76F/V3/06

Laboratory Representative Ambient Air

Ambient Air

Near infront of MCC Room Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

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

22/11/2023 23/11/2023

26/11/2023

27/11/2023-05/12/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.35	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.57	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.11	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.29	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
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)	1.13	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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/06

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

Satisfactory

(M.S)

Reporting Date: 06/12/2023



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1653C/76F/V3/06 Laboratory Representative Ambient Air Near infront of MCC Room Ambient Temperature 

 Sampling Start Date:
 22/11/2023

 Sampling End Date:
 23/11/2023

 Sample Receipt Date:
 26/11/2023

 Analysis start- End Date:
 27/11/2023-05/12/2023

 Total Sampling hours:
 24

Env. Cond.-Testing: 24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	75	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Ritu Shah

Authorized Signatory Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/07

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 06/12/2023



TC-7073

### SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1653C/76F/V3/07 Laboratory Representative

Ambient Air

Near Shift incharge Room Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

22/11/2023

23/11/2023 26/11/2023

27/11/2023-05/12/2023

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65./9	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)	12.46	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.18	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.39	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Ritu Shah AHMEDABAD PY

Authorized Signatory Payal Patel

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/07

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

Satisfactory

(M.S)

Reporting Date: 06/12/2023



TC-7073

## SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1653C/76F/V3/07 Laboratory Representative Ambient Air Near Shift incharge Room Ambient Temperature

Sampling Start Date: 22/11/2023 Sampling End Date: 23/11/2023 Sample Receipt Date: Analysis start- End Date: Total Sampling hours:

26/11/2023 27/11/2023-05/12/2023

25±5°C Env. Cond.-Testing:

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	46	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Authorized Signatory Payal Patel

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/08

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 06/12/2023



TC-7073

### SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1653C/76F/V3/08 Laboratory Representative

Ambient Air

Near Mine Workshop Ambient Temperature Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing:

22/11/2023 23/11/2023

26/11/2023 27/11/2023-05/12/2023

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.07	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.64	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.81	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.40	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.40	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)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/08

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 06/12/2023



## SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1653C/76F/V3/08 Laboratory Representative Ambient Air Near Mine Workshop Ambient Temperature Satisfactory

Sampling Start Date: 22/11/2023 Sampling End Date: Sample Receipt Date: Analysis start- End Date:

23/11/2023 26/11/2023 27/11/2023-05/12/2023

Total Sampling hours: Env. Cond.-Testing:  $25\pm5$ °C

24	
2F_F0C	

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	47	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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

End of Report

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1653C/76F/V3/09

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907

(M.S)

Reporting Date: 06/12/2023



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

22/11/2023

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1653C/7 6F/V3/09A	Nr. Admin Office	Day Time	dB(A)Leq	IS 4758	56.6	-
2	Lab/PN/1653C/7 6F/V3/09B	In Front of MCC Room	Day Time	dB(A)Leq	IS 4758	60.3	
3	Lab/PN/1653C/7 6F/V3/09C	Nr. Shift Incharge Room	Day Time	dB(A)Leq	IS 4758	54.9	_
4	Lab/PN/1653C/7 6F/V3/09D	Nr. Plant Workshop	Day Time	dB(A)Leq	IS 4758	63.2	

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

Analyzed By

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