

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

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76A/01

M/s Moil Limited

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

Reporting Date: 27/01/2025



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3539D/76A/01 Maulik Prajapati

Ambient Air

Near Railway Station Temp -18°C & Humidity-52%

Satisfactory

Sampling Start Date: 1
Sampling End Date: 1
Sample Receipt Date: 1

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 15/01/2025

16/01/2025 18/01/2025

20/01/2025-25/01/2025

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	69.44	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.66	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.12	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.67	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.53	µg/m3	GGMPL/SOP/AA/62	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)	1.18	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

Reviewed & Authorized by Tantan Kumar Reviewed & Authorized by Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76A/02

M/s Moil Limited

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

Reporting Date: 27/01/2025



## SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3539D/76A/02 Maulik Prajapati Ambient Air Near Mine Workshop

Temp -18°C & Humidity-52%

Satisfactory

Sampling Start Date: 15/01/2025 Sampling End Date: 16/01/2025 Sample Receipt Date: 18/01/2025 20/01/2025-25/01/2025

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

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	66.43	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.28	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	20.91	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.62	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.02	µg/m3	GGMPL/SOP/AA/62	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)	1.27	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per NAAQ Standards.

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76A/03

M/s Moil Limited

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

Reporting Date: 27/01/2025



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3539D/76A/03

Maulik Prajapati Ambient Air

Near Kurmuda Grampanchayat Office

Temp -18°C & Humidity-52%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 15/01/2025

16/01/2025 18/01/2025

20/01/2025-25/01/2025

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.99	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.18	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	23.11	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.67	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.39	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76A/04

M/s Moil Limited

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

Reporting Date: 27/01/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3539D/76A/04

Maulik Prajapati Ambient Air

Near Mine Manganese

Temp -18°C & Humidity-52%

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

15/01/2025

16/01/2025 18/01/2025

18/01/2025 20/01/2025-25/01/2025

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	69.42	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.68	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.74	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.20	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	µg/m3	GGMPL/SOP/AA/62	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)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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Report Number: GGMPL/PN/3539D/76A/05

M/s Moil Limited

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

Reporting Date: 27/01/2025



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Maulik Prajapati

Sampling Date:

Sample Description:

15/01/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3539D/7 6A/05A	Near Mine Work Shop	Day Time	dB(A)Leq	IS 4758	69.2	-
2	Lab/PN/3539D/7 6A/05B	Near Houlage Road	Day Time	dB(A)Leq	IS 4758	54.6	
3	Lab/PN/3539D/7 6A/05C	Near Crushing and Screening	Day Time	dB(A)Leq	IS 4758	72.1	-

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76A/06

M/s Moil Limited

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

Reporting Date: 27/01/2025



### SAMPLE DETAILS

Lab ID:

Lab/PN/3539D/76A/06

Sampling Date:

16/01/2025

Sample Drawn By:

Maulik Prajapati

Sample Receipt Date:

18/01/2025

Sample Type:

Ground Water Nr. workshop (Borewell water) Analysis Start Date: Analysis End Date:

20/01/2025 25/01/2025

Sample Description: Sample Quantity:

3.5 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	183.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	40.08	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	52.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.47	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.51	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.62		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.78	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	327.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	205.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan

Reviewed & Authorized by Payal Patel

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Report Number: GGMPL/PN/3539D/76A/06

M/s Moil Limited

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

Reporting Date: 27/01/2025



## SAMPLE DETAILS

Lab ID:

Lab/PN/3539D/76A/06

Sample Drawn By:

Maulik Prajapati Ground Water

Sample Type: Sample Description:

Nr. workshop (Borewell water)

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

16/01/2025

18/01/2025

20/01/2025 25/01/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.12	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan

9 End of Report ---

Reviewed & Authorized by Payal Patel

P.BRE

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76A/07

M/s Moil Limited

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

Reporting Date: 27/01/2025



### SAMPLE DETAILS

Lab ID:

Lab/PN/3539D/76A/07

Maulik Prajapati Ground Water

Sample Type: Sample Description:

OLD Pit Reservoir

Sample Quantity:

Sample Drawn By:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

16/01/2025

18/01/2025

20/01/2025 25/01/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	189.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	46.49	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	53.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.43	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.06	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.70	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.14	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	340.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	215.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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

10 1-18

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by Payal Patel

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76A/07

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/3539D/76A/07

Sample Drawn By:

Maulik Prajapati

Sample Type: Sample Description: Ground Water OLD Pit Reservoir

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

16/01/2025 18/01/2025

20/01/2025

25/01/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13 Turbi	dity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14 Iron		BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15 Mang	anese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16 Nitrat	e	0.67	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17 Total	coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18 E. col		Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76A/08

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:

Lab/PN/3539D/76A/08

Sampling Date:

16/01/2025

Sample Drawn By:

Maulik Prajapati

Sample Receipt Date:

18/01/2025

Sample Type:

Ground Water

Analysis Start Date: Analysis End Date: 20/01/2025 25/01/2025

Sample Description:

Nr. Kurmuda Plant (Borewell water) 3.5 L

Sampling Method:

APHA 24th Edn 2340 C

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	145.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	39.68	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	40.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.49	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.30	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.79		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	17.55	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	278.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	9.00	mg/L	APHA 24th Edn 2540 D	NS	NS

mg/L

AL & PL as per IS 10500

Total Hardness as CaCO3

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

199.00

10 178

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76A/08

M/s Moil Limited

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

Reporting Date: 27/01/2025



## SAMPLE DETAILS

Lab ID:

Lab/PN/3539D/76A/08

Sample Drawn By:

Maulik Prajapati

Sample Type: Sample Description:

Sample Quantity:

3.5 L

Sample Condition:

Ground Water

Nr. Kurmuda Plant (Borewell water)

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

16/01/2025

18/01/2025 20/01/2025

25/01/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.11	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76A/09

M/s Moil Limited

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

Reporting Date: 27/01/2025



### SAMPLE DETAILS

Lab ID:

Lab/PN/3539D/76A/09

Sampling Date:

APHA 24th Edn 2340 C

16/01/2025

Maulik Prajapati Ground Water

18/01/2025 Sample Receipt Date: Analysis Start Date: 20/01/2025

Nr. SHiv Mandir Pond

Analysis End Date: Sampling Method:

25/01/2025 GGMPL/WI/27A

Sample Description: Sample Quantity:

Sample Drawn By:

Sample Type:

3.5 L

Packing:

Sealed

Sample Condition:

Satisfactory

PL Unit AL Results Test Method **Parameters** Sr.No 600 APHA 24th Edn 2320 B 200 110.00 mg/L Alkalinity as CaCO3 1 200 APHA 24th Edn 3500 Ca B 75 Calcium as Ca 27.25 mg/L 2 250 1000 mg/L IS 3025- Part 32 38.49 Chloride 3 BQL (QL=2.5) CU IS 3025- Part 4 5 15 4 Colour 1.0 1.5 APHA 24th Edn 4500 F D 0.36 mg/L Fluoride 5 100 APHA 24th Edn 3500 Mg B 30 20.65 mg/L Magnesium as Mg 6 Agreeable Agreeable IS 3025- Part 5 Agreeable 7 Odour No 6.5-8.5 IS 3025- Part 11 7.25 8 pH at 25 °C relaxation APHA 24th Edn 4500 SO4 E 200 400 17.05 mg/L 9 Sulphate APHA 24th Edn 2540 C 500 2000 225.00 mg/L Total Dissolved Solids (TDS) 10 NS BQL (QL=5) mg/L APHA 24th Edn 2540 D NS Total Suspended Solids (TSS) 11

mg/L

AL & PL as per IS 10500

Total Hardness as CaCO3

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

153.00

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76A/09

M/s Moil Limited

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

Reporting Date: 27/01/2025



### SAMPLE DETAILS

Lab ID:

Lab/PN/3539D/76A/09

Sample Drawn By:

Maulik Prajapati

Sample Type:

Ground Water

Sample Description: Sample Quantity:

3.5 L

Sample Condition:

Nr. SHiv Mandir Pond

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

25/01/2025 GGMPL/WI/27A

Packing:

Sealed

16/01/2025

18/01/2025

20/01/2025

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.87	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

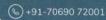
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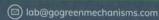
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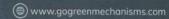
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3539D/76/10

M/s Moil Limited

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

Reporting Date: 25.01.2025



## SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type Sample Location : Lab/PN/3539D/76/10

: Weather Monitoring Station

: Meteorological Parameter

: Nr. Mine Work Shop

Sampling Start Date

Sampling End Date

Sample Receipt Date

: 15.01.2025

: 16.01.2025

: 18.01.2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	1.11	m/s	GGMPL/SOP/MP/01:2020	
2	Relative Humidity	52.0	%	GGMPL/SOP/MP/01:2020	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	18.0	°C	GGMPL/SOP/MP/01:2020	

Wind Direction= NE

Tantan Kumar

lewed & Authorized by

Manish Kumawat

----End of Report----

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3540D/76B/01

M/s Moil Limited

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

Reporting Date: 28/01/2025



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3540D/76B/01

Maulik Prajapati Ambient Air

Near Siren Room Dump Tem-23°C/ Humidity-48%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

USEPA Method IO 3.4

USEPA Method IO 3.4

15/01/2024

16/01/2024 18/01/2025

20/01/2025-27/01/2025

24 25±5°C

		4			
Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	74.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.99	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.44	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.73	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20

ng/m3

µg/m3

BQL (QL=1)

BQL (QL=0.001)

Norms as per NAAQ Standards.

Arsenic as As

Lead

11

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3540D/76B/02

M/s Moil Limited

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

Reporting Date: 28/01/2025



### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3540D/76B/02

Maulik Prajapati Ambient Air

Near Syndicate Colony

Tem-23°C/ Humidity-48%

Satisfactory

Sampling Start Date:

Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 15/01/2025

16/01/2025 18/01/2025

18/01/2025 20/01/2025-27/01/2025

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.28	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.60	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.00	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.02	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.72	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1

Norms as per NAAQ Standards.

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3540D/76B/03

M/s Moil Limited

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

Reporting Date: 28/01/2025



### SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Maulik Prajapati

Sampling Date:

Sample Description:

15/01/2025

Source Noise

1 -1-15							
	PN/3540D/7 BB/03A	Foot Wall Haulage Raod	Day Time	dB(A)Leq	IS 4758	58.9	
2 Lab/F	PN/3540D/7 5B/03B	Near Siren room Dump	Day Time	dB(A)Leq	IS 4758	68.9	

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3540D/76B/04

M/s Moil Limited

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

Reporting Date: 28/01/2025



### SAMPLE DETAILS

Lab ID:

Lab/PN/3540D/76B/04

Sample Drawn By: Sample Type:

Sample Description: Sample Quantity:

3.5 L

Sample Condition:

Maulik Prajapati

Ground Water

Nr. Filter Plant

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

16/01/2025

18/01/2025 20/01/2025 27/01/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	149.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	41.28	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	36.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.60	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.90	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	*	IS 3025- Part 5	Agreeabl	e Agreeabl
8	pH at 25 °C	7.53	-	IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	16.76	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	263.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	189.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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

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P. B. Res Reviewed & Authorized by

Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3540D/76B/04

M/s Moil Limited

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

Reporting Date: 28/01/2025



## SAMPLE DETAILS

Lab ID:

Lab/PN/3540D/76B/04

Sample Drawn By:

Maulik Prajapati

Sample Type: Sample Description: Ground Water Nr. Filter Plant

Sample Quantity:

3.5 L

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

16/01/2025

18/01/2025

20/01/2025

27/01/2025

Sealed

STORY AND STORY		110000000000000000000000000000000000000
Sample	Con	dition:

-		-	4	
C	atic	101	cto	m

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.73	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3540D/76B/05

M/s Moil Limited

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

Reporting Date: 28/01/2025



### SAMPLE DETAILS

Lab ID:

Lab/PN/3540D/76B/05

Sampling Date:

16/01/2025

Sample Drawn By:

Maulik Prajapati

Sample Receipt Date:

18/01/2025 20/01/2025

Sample Type:

Drinking Water Syndicate Colony Analysis Start Date: Analysis End Date:

27/01/2025 GGMPL/WI/27A

Sample Description: Sample Quantity:

3.5 L

Sampling Method: Packing:

Sample Condition:

Satisfactory

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	134.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	40.48	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	37.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	15.07	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable		IS 3025 Part 5	Agreeabl	e Agreeable
7	pH at 25 °C	7.63		IS 3025-Part 11	6.5-8.5	No Relaxatio
8	Sulphate	15.38	mg/L	APHA 24th Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	243.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	163.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B):	1	5

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/3540D/76B/05

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:

Lab/PN/3540D/76B/05

Sample Drawn By:

Maulik Prajapati Drinking Water

Sample Type: Sample Description:

Syndicate Colony

Sample Quantity:

3.5 L

Sample Condition: Satisfactory

Sampling Date:

16/01/2025

Sample Receipt Date:

18/01/2025

Analysis Start Date: Analysis End Date: 20/01/2025 27/01/2025

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.48	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	0.61	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL as per IS 10500

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3540D/76B/06

Reporting Date: 28.01.2025

## M/s Moil Limited

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



## SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3540D/76B/06

: Weather Monitoring Station

: Meteorological Parameter

: Near Siren Room Dump

Sampling Start Date

Sampling End Date Sample Receipt Date : 15-01-2025 : 16-01-2025

: 18-01-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01:2020	
2	Relative Humidity	48.0	%	GGMPL/SOP/MP/01:2020	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	23.0	°C	GGMPL/SOP/MP/01:2020	

Wind Direction= NE



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Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3541D/76C/01

M/s Moil Limited

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

Reporting Date: 28/01/2025



### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3541D/76C/01

Maulik Prajapati Ambient Air

Ambient Air

Near Haulage Road View Point Temp - 24°C & Humidity - 54%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 15/01/2025

16/01/2025 18/01/2025

20/01/2025-27/01/2025

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	65.29	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.09	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.39	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.26	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms as pet National Ambient Air Quality Standards.

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

Reviewed & Authorized by Tantan Kumar Quantification Limit

\*

End of Report ---

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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3541D/76C/02

M/s Moil Limited

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

Reporting Date: 28/01/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3541D/76C/02

Maulik Prajapati Ambient Air

Near Mine Hospital Temp - 24°C & Humidity - 56%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 15/01/2025

16/01/2025 18/01/2025

20/01/2025-27/01/2025

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	64.49	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)	12.47	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.61	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.64	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.00	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms as per National Ambient Air Quality Standards.

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

Reviewed & Authorized by Tantan Kumar

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AHMEDABAD

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3541D/76C/03

M/s Moil Limited

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

Reporting Date: 28/01/2025



### SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Maulik Prajapati

Sampling Date:

Sample Description:

15/01/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	LAB/PN/3541D/7 6C/03A	Nr Haulage Road View Point	Day Time	dB(A)Leq	IS 4758	56.2	-
2	LAB/PN/3541D/7 6C/03B	Nr Mine Hospital	Day Time	dB(A)Leq	IS 4758	53.2	

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3541D/76C/04

M/s Moil Limited

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

Reporting Date: 28/01/2025



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/3541D/76C/04

Sample Drawn By:

Maulik Prajapati

Sample Type:

Ground Water

Sample Description:

Nr. Mine Pit Discharge (Borewell water)

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

16/01/2025

18/01/2025

20/01/2025 27/01/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	185.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	66.53	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	64.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.83	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.27	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	(#1)	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.56	2 3 4	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	54.82	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	380.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	20.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	270.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3541D/76C/04

M/s Moil Limited

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

Reporting Date: 28/01/2025



### SAMPLE DETAILS

Lab ID:

Lab/PN/3541D/76C/04

Sample Drawn By: Sample Type:

Maulik Prajapati Ground Water

Sample Description:

Nr. Mine Pit Discharge (Borewell water)

Sample Quantity: 3.5 L Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

16/01/2025 18/01/2025

20/01/2025 27/01/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13 Tur	bidity	0.56	NTU	APHA 24th Edn 2130 B	1	5
14 Iro		BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15 Ma	nganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	No Relaxation
16 Niti	ate	3.09	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17 Tot	al coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18 E. c	oli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3541D/76C/05

M/s Moil Limited

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

Reporting Date: 28/01/2025



## SAMPLE DETAILS

Lab ID:

Lab/PN/3541D/76C/05

Sampling Date:

16/01/2025

Sample Drawn By:

Maulik Prajapati

Sample Receipt Date:

18/01/2025

Sample Type: Sample Description: Ground Water Piezometer Borewell Analysis Start Date: Analysis End Date:

20/01/2025 27/01/2025

Sample Quantity:

3.5 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	185.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	62.52	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	75.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.76	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	31.59	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeabl
8	pH at 25 °C	7.67	- 1	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	48.90	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	396.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	17.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	286.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan P.B.Re

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3541D/76C/05

M/s Moil Limited

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

Reporting Date: 28/01/2025



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/3541D/76C/05

Sample Drawn By:

Maulik Prajapati

Sample Type:

Ground Water Piezometer Borewell

Sample Description: Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

16/01/2025 18/01/2025

20/01/2025

27/01/2025 GGMPL/WI/27A

Sealed

Packing:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.89	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.30	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan

Reviewed & Authorized by Payal Patel

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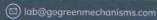
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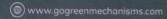
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3541D/79C/06

Reporting Date: 28.01.2025

## M/s Moil Limited

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



## SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3541D/79C/06

: Weather Monitoring Station

: Meteorological Parameter

· Near Mine Hospital

Sampling Start Date

Sampling End Date

: 16.01.2025

Sample Receipt Date

: 27.01.2025

: 15.01.2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	56.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	24.0	°C	GGMPL/SOP/MP/01	

Wind Direction= ES

Reviewed & Authorized by

Tantan Kumar



Payal Patel

----End of Report----

Page 1 of 1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3554D/76D/01

M/s Moil Limited

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

Reporting Date: 28/01/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3554D/76D/01

Maulik Prajapati Ambient Air Near Pit Office

Temp - 25°C & Humidity - 58%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

17/01/2025

18/01/2025 20/01/2025

21/01/2025-27/01/2025

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	64.39	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.24	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.61	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.00	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.64	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms as per National Ambient Air Quality Standards.

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3554D/76D/02

M/s Moil Limited

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

Reporting Date: 28/01/2025



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Maulik Prajapati

Sampling Date:

Sample Description:

17/01/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1 1	Lab/PN/3554D/7 6D/02A	Nr Pit Office	Day Time	dB(A)Leq	IS 4758	62.4	

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3554D/76D/03

M/s Moil Limited

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

STATES AND STATES OF THE STATE

Reporting Date: 28/01/2025

TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/3554D/76D/03

Maulik Prajapati

Sample Type:

Drinking Water Near Pit Office

Sample Description: Sample Quantity:

Sample Drawn By:

4 L

Sample Condition:

Satisfactory

Sampling Date:

Date: 18/01/2025

Sample Receipt Date: Analysis Start Date: 20/01/2025 21/01/2025

Analysis End Date: Sampling Method: 27/01/2025 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	176.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	41.28	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	40.48	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	26.00	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	- 9	IS 3025 Part 5	Agreeabl	e Agreeable
7	pH at 25 °C	7.58		IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	26.26	mg/L	APHA 24th Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	310.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	210.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	12.00	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	1.15	NTU	APHA 24th Edition (2130 B):	1	5

AL & PL As Per IS 10500.

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

V 1R

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Report Number: GGMPL/PN/3554D/76D/03

M/s Moil Limited

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

Reporting Date: 28/01/2025



## SAMPLE DETAILS

Lab ID:

Lab/PN/3554D/76D/03

Sample Drawn By:

Maulik Prajapati

Sample Type:

Drinking Water

Sample Description:

Near Pit Office

Satisfactory

Sample Quantity:

4 L

Sample Condition:

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

21/01/2025 27/01/2025

18/01/2025

20/01/2025

GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.51	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.81	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

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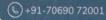
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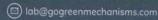
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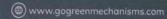
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3554D/76D/04

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

Reporting Date: 28.01.2025



### SAMPLE DETAILS

M/s Moil Limited

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3554D/76D/04

: Weather Monitoring Station

: Meteorological Parameter

: Near Pit Office

Sampling Start Date

Sampling End Date

: 18.01.2025

Sample Receipt Date

: 27.01.2025

: 17.01.2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	1.11	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	58.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	25.0	%	GGMPL/SOP/MP/01	

Wind Direction= F

Reviewed & Authorized by

Tantan Kumar

HAN AHMEDABAD

Reviewed & Authorized by

Payal Patel

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3555D/76E/01

M/s Moil Limited

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

Reporting Date: 28/01/2025



### SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3555D/76E/01 Maulik Prajapati Ambient Air

Near Sinding Office Tem-25°C/ Humidity-58%

Satisfactory

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

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

18/01/2025 20/01/2025

17/01/2025

21/01/2025-27/01/2025 24

25±5°C

r.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	- μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.01	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.95	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.96	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	μg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3,4	1

Norms AS Per NAAQ Standards.

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3555D/76E/02

M/s Moil Limited

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

Reporting Date: 28/01/2025



### SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3555D/76E/02 Maulik Prajapati Ambient Air Near Loading Area Tem-25°C/ Humidity-58%

Satisfactory

Sampling Start Date: 17/01/2025 Sampling End Date: 18/01/2025 Sample Receipt Date: 20/01/2025 Analysis start- End Date: 21/01/2025-27/01/2025

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

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	67.95	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.67	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.16	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.82	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.02	μg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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Reviewed & Authorized by Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3555D/76E/03

M/s Moil Limited

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

Reporting Date: 28/01/2025



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Maulik Prajapati

Sampling Date:

Sample Description:

17/01/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3555D/7 6E/03A	Near Siding Office	Day Time	dB(A)Leq	IS 4758	66.4	-
2	Lab/PN/3555D/7 6E/03B	Near Loading Area	Day Time	dB(A)Leq	IS 4758	65.9	

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3555D/76E/04

M/s Moil Limited

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

Reporting Date: 28/01/2025



# SAMPLE DETAILS

Lab ID:

Lab/PN/3555D/76E/04

Sample Drawn By:

Maulik Prajapati

Sample Type:

Drinking Water

Sample Description:

At Siding Office

Sample Quantity:

4.1

Sample Condition:

Satisfactory

Sampling Date:

17/01/2025

Sample Receipt Date:

20/01/2025

Analysis Start Date:

21/01/2025

Analysis End Date:

27/01/2025 GGMPL/WI/27B

Sampling Method: Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	76.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	36.07	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	26.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	7.05	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeabl	le Agreeable
7	pH at 25 °C	7.52	<u> </u>	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	18.54	mg/L	APHA 24th Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	175.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	119.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B):	1	5

AL & PL as per IS 10500.

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

A HB

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3555D/76E/04

M/s Moil Limited

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

Reporting Date: 28/01/2025



TC-707

## SAMPLE DETAILS

Lab ID:

Lab/PN/3555D/76E/04

Sample Drawn By: Sample Type: Maulik Prajapati Drinking Water

Sample Description: Sample Quantity: At Siding Office

Sample Condition:

Satisfactory

Sampling Date:

17/01/2025 20/01/2025

Sample Receipt Date: Analysis Start Date:

21/01/2025 27/01/2025

Analysis End Date: Sampling Method: 27/01/2025 GGMPL/WI/27B

Packing:

Sealed

Parameters	Results	Unit	Test Method	AL	PL
Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1.0	No Relaxation
Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
Fluoride (F)	0.63	mg/L	APHA 24th Edn 4500 F D	1	1.5
Nitrate	0.81	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent
	Iron  Manganese Fluoride (F)  Nitrate  Total coliform	Iron         BQL (QL=0.05)           Manganese         BQL (QL=0.05)           Fluoride (F)         0.63           Nitrate         0.81           Total coliform         Absent	Iron         BQL (QL=0.05)         mg/L           Manganese         BQL (QL=0.05)         mg/L           Fluoride (F)         0.63         mg/L           Nitrate         0.81         mg/L           Total coliform         Absent         per 100ml	Iron         BQL (QL=0.05)         mg/L         GGMPL/SOP/W & WW/46           Manganese         BQL (QL=0.05)         mg/L         GGMPL/SOP/W & WW/46           Fluoride (F)         0.63         mg/L         APHA 24th Edn 4500 F D           Nitrate         0.81         mg/L         APHA 24th Edn 4500 NO3 B           Total coliform         Absent         per 100ml         APHA 9222 A&B 24th Edition 2021	Iron         BQL (QL=0.05)         mg/L         GGMPL/SOP/W & WW/46         1.0           Manganese         BQL (QL=0.05)         mg/L         GGMPL/SOP/W & WW/46         0.1           Fluoride (F)         0.63         mg/L         APHA 24th Edn 4500 F D         1           Nitrate         0.81         mg/L         APHA 24th Edn 4500 NO3 B         45           Total coliform         Absent         per 100ml         APHA 9222 A&B 24th Edition 2021         Absent

AL & PL as per IS 10500.

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3555D/76E/05

M/s Moil Limited

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

Reporting Date: 28/01/2025



# SAMPLE DETAILS

Lab ID:

Lab/PN/3555D/76E/05

Sample Drawn By: Sample Type:

Maulik Prajapati Ground Water

Sample Description:

Near Balapur Hamesha Camp (Borewell

Water)

Sample Quantity: Sample Condition: 4L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Mothod:

Packing:

27/01/2025 GCMPL/WI/27A

17/01/2025

20/01/2025

21/01/2025

Sealed

5r.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	136.00	mg/L	API IA 24th Edn 2320 B	200	600
2	Calcium as Ca	38.48	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	34.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.53	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.04	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeab	e Agreeabl
8	pH at 25 °C	7.59		IS 3025- Part 11	6.5-8.5	No relaxatio
9	Sulphate	24.65	mg/L	APHA 24th Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	253.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th 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/3555D/76E/05

M/s Moil Limited

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

Reporting Date: 28/01/2025



### SAMPLE DETAILS

Lab ID:

Lab/PN/3555D/76E/05

Sample Drawn By:

Maulik Prajapati

Sample Type: Sample Description: Ground Water Near Balapur Hamesha Camp (Borewell

Water)

Satisfactory

Sample Quantity:

4L

Sample Condition:

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

21/01/2025 27/01/2025

17/01/2025

20/01/2025

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	162.00	mg/L	APHA 24th Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.20	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

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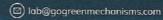
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3555D/76E/06

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

Reporting Date: 28.01.2025



# SAMPLE DETAILS

M/s Moil Limited

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3555D/76E/06

: Weather Monitoring Station

: Meteorological Parameter

: Near Sinding Office

Sampling Start Date

: 17-01-2025

Sampling End Date

: 18-01-2025

Sample Receipt Date

: 20-01-2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	1.39	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	58.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	25.0	°C	GGMPL/SOP/MP/01	

Wind Direction= NE

Reviewed & Authorized by

Tantan Kumar

----End of Report----

Reviewed & Authorized by

Manish Kumawat

Page 1 of 1

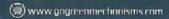
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3555D/76E/07

## M/s Moil Limited

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

Reporting Date: 28.01.2025



### SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3555D/76E/07

: Weather Monitoring Station

: Meteorological Parameter

: Near Loading Area

Sampling Start Date

Sampling End Date

: 17-01-2025 : 18-01-2025

Sample Receipt Date

: 20-01-2025

era dan	D. C. Waller	Transmiss.			
Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind ≨pood	1.39	m/s	GCMPL/EOFYMF/01	
2	Relative Humidity	58.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	25.0	°C	GGMPL/SOP/MP/01	

Wind Direction= NE

Tantan Kumar

AHMEDABAD

Manish Kumawat

----End of Report----

Page 1 of 1

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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/01

M/s Moil Limited

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

(M.S)

Reporting Date: 28/01/2025



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/3556D/76F/01

Maulik Prajapati Ambient Air Near Admin Office

Temp -24°C & Humidity-55%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 17/01/2025

18/01/2025 20/01/2025

21/01/2025-27/01/2025

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.79	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.05	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.58	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.86	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.06	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	. 5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	0.98	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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Reviewed & Authorized by Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/02

M/s Moil Limited

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

(M.S)

Reporting Date: 28/01/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3556D/76F/02

Maulik Prajapati Ambient Air

Near Infront Of MCC Room Temp -24°C & Humidity-55%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

17/01/2025

18/01/2025 20/01/2025

21/01/2025-27/01/2025

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	64.66	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	14.15	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.09	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.98	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.39	µg/m3	GGMPL/SOP/AA/62	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
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/03

M/s Moil Limited

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

Reporting Date: 28/01/2025



### SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3556D/76F/03

Maulik Prajapati Ambient Air

Near Shift Incharge Room Temp -24°C & Humidity-55%

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

Env. Cond.-Testing:

21/01/2025-27/01/2025 24

25±5°C

17/01/2025

18/01/2025

20/01/2025

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	63.82	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	μg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.54	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.00	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.98	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.39	µg/m3	GGMPL/SOP/AA/62	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)	1.01	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/04

M/s Moil Limited

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

(M.S)

Reporting Date: 28/01/2025



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/3556D/76F/04

Maulik Prajapati Ambient Air

Near Mine Wokshop

Temp -24°C & Humidity-55%

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 17/01/2025 18/01/2025

20/01/2025

21/01/2025-27/01/2025

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	76.33	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.48	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.81	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.89	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.39	µg/m3	GGMPL/SOP/AA/62	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)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

Reviewed & Authorized by Tantan Kumar Quantification Alminia

AHMEDABAD

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/05

M/s Moil Limited

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

(M.S)



### SAMPLE DETAILS

Lab ID:

Lab/PN/3556D/76F/05

Sampling Date:

17/01/2025

Sample Drawn By:

Maulik Prajapati

Sample Receipt Date:

20/01/2025

Sample Type:

Stack Emission

Analysis start- End Date:

21/01/2025-24/01/2025

Stack Height & Dia (m):

30 & 0.5

Stack Temperature (°C):

125

Stack Attached To:

CFB Boiler

Stack gas velocity (m/sec):

11.05

Fuel Used:

Coal

Volume of Air Sampled in NM3: 0.8781

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	51.36	mg/Nm³	IS 11255- Part 1	:±:
2	Sulphur Dioxides	70.87	ppm	IS 11255- Part 2	

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

0

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/06

M/s Moil Limited Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907 (M.S)

Reporting Date: 25/01/2025



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Maulik Prajapati

Sampling Date:

Sample Description:

17/01/2025

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3556D/7 6F/06A	Near Admin Office	Day Time	dB(A)Leq	IS 4758	59.1	-
2	Lab/PN/3556D/7 6F/06B	Near Infront Of MCC Room	Day Time	dB(A)Leq	IS 4758	64.9	
3	Lab/PN/3556D/7 6F/06C	Near Shift Incharge Room	Day Time	dB(A)Leq	IS 4758	62.4	
4	Lab/PN/3556D/7 6F/06D	Near Mine Workshop	Day Time	dB(A)Leq	IS 4758	69.8	

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/07

M/s Moil Limited

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

(M.S)

Reporting Date: 29/01/2025



## SAMPLE DETAILS

Lab ID:

Lab/PN/3556D/76F/07

Sample Drawn By:

Maulik Prajapati

Sample Type: Sample Description:

Drinking Water Near Admin Office (RO Water)

Sample Quantity:

Sampling Date:

17/01/2025 Sample Receipt Date: 20/01/2025

Analysis Start Date: Analysis End Date:

Sampling Method:

21/01/2025 27/01/2025 GGMPL/WI/27A

Sealed

Sample Condition: Satisfact

actory	Packing:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	105.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	30.46	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	17.49	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	7.05	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.65	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	8.87	mg/L	APHA 24th Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	160.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	105.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B):	1	5

AL & PL AS Per IS 10500.

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

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PB.PS Reviewed & Authorized by Payal Patel

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/07

M/s Moil Limited

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

(M.S)

Reporting Date: 29/01/2025

## SAMPLE DETAILS

Lab ID:

Lab/PN/3556D/76F/07

Sample Drawn By: Sample Type:

Maulik Prajapati Drinking Water

Sample Description: Sample Quantity:

Near Admin Office (RO Water)

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

17/01/2025 20/01/2025

21/01/2025 27/01/2025

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.11	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	BQL (QL=0.5)	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL AS Per IS 10500.

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

Reviewed & Authorized by Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by Payal Patel

P.B.Re

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/08

M/s Moil Limited

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

(M.S)



### SAMPLE DETAILS

Lab ID:

Lab/PN/3556D/76F/08

Maulik Prajapati

Sample Drawn By: Sample Type: Sample Description:

Waste Water

Near Admin Office (Drainage Water)

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

17/01/2025

20/01/2025 21/01/2025

27/01/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.49	4	IS 3025- Part 11	-
2	Total Suspended Solids	58.00	mg/L	APHA 24th Edn 2540 D	Line Branch
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	~
4	Chemical Oxygen Demand (COD)	144.00	mg/L	APHA 24th Edn 5220 B	
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	. *
6	BOD at 27 o C for 3 days	28.0	mg/L	IS 3025- Part 44	THE STATE OF THE S
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/09

M/s Moil Limited

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

(M.S)

Reporting Date: 28/01/2025

### SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Maulik Prajapati Waste Water Sample Description: ETP inlet Sample Quantity: 4 L

Sample Condition:

Lab/PN/3556D/76F/09

Satisfactory

Sampling Date:

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

Sampling Method:

Packing:

17/01/2025

20/01/2025 21/01/2025 27/01/2025 GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.48	-	IS 3025- Part 11	-
2	Total Suspended Solids	48.00	mg/L	APHA 24th Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	12)
4	Chemical Oxygen Demand (COD)	80.00	mg/L	APHA 24th Edn 5220 B	•
5	Dissolved Oxygen	4.00	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	16.0	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/10

M/s Moil Limited

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

(M.S)



### SAMPLE DETAILS

Lab ID: Lab/PN/3556D/76F/10 Sample Drawn By: Maulik Prajapati Sample Type: Waste Water Sample Description: Boiler water inlet 4 L

Sample Quantity: Sample Condition:

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

21/01/2025 27/01/2025 GGMPL/WI/27A

17/01/2025

20/01/2025

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.18	-	IS 3025- Part 11	-
2	Total Suspended Solids	17.00	mg/L	APHA 24th Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Demand (COD)	40.00	mg/L	APHA 24th Edn 5220 B	
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	8.80	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	9 <del>5</del>

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

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End of Report ---

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/11

Reporting Date: 28.01.2025

# M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907 (M.S)



## SAMPLE DETAILS

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3556D/76F/11

: Weather Monitoring Station

: Meteorological Parameter

: Near Admin Office

Sampling Start Date

Sampling End Date

: 17.01.2025 : 18.01.2025

Sample Receipt Date

: 20.01.2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	55.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	24.0	°C	GGMPL/SOP/MP/01	

Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

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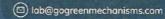
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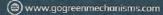
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/12

Reporting Date: 28.01.2025

# M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907 (M.S)



## SAMPLE DETAILS

Lab ID

: Lab/PN/3556D/76F/12

Sampling Start Date

: 17.01.2025

Sampling Instrument

: Weather Monitoring Station

Sampling End Date

: 18.01.2025

Sample Type

: Meteorological Parameter

Sample Receipt Date

: 20.01.2025

Sample Location

: Near Infront Of MCC Room

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	55.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	24.0	°C	GGMPL/SOP/MP/01

Wind Direction= NE

Tantan Kumar

Reviewed & Authorized by

Manish Kumawat

----End of Report----

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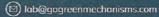
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/13

Reporting Date: 28.01.2025

## M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907 (M.S)



# SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type

Sample Location

: Lab/PN/3556D/76F/13

. Weather Monitoring Station

: Meteorological Parameter

: Near Shift Incharge Room

Sampling Start Date

Sampling End Date Sample Receipt Date

: 17.01.2025 : 18.01.2025

: 20.01.2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	55.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	24.0	*	GGMPL/SOP/MP/01	

Tantan Kumar

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Manish Kumawat

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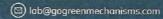
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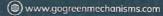
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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/3556D/76F/14

Reporting Date: 28.01.2025

# M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg Tah. Tumsar Disst. Bhandara-441907 (M.S)



## SAMPLE DETAILS

Lab ID

Sampling Instrument

Sample Type Sample Location : Lab/PN/3556D/76F/14

: Weather Monitoring Station

: Meteorological Parameter

: Near Mine Wokshop

Sampling Start Date

: 17.01.2025

Sampling End Date : 18.01.2025

Sample Receipt Date

: 20.01.2025

Sr. No.	Parameters	Results	Unit	Test Method	
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01	
2	Relative Humidity	55.0	%	GGMPL/SOP/MP/01	
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	
4	Temperature	24.0	°C	GGMPL/SOP/MP/01	

Tantan Kumai



Reviewed & Authorized

Manish Kumawat

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