

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/1494D/76A/01

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1494D/76A/01

Sample Drawn By:

Laboratory Representative Water

Sample Type:

Sample Description: Sample Quantity:

Nr Workshop Borewell (GW)

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

27/07/2024 29/07/2024

30/07/2024

06/08/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	148.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	40.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.48	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.84	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeabl
8	pH at 25 °C	7.25	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	26.89	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	282.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.66	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	186.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL& PL As Per IS 10500.

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

Analyzed By Khushbu Suthar



Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/01

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1494D/76A/01

Sampling Date:

27/07/2024 29/07/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

30/07/2024

Sample Description:

Nr Workshop Borewell (GW)

Analysis End Date: Sampling Method:

06/08/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 3 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	BQL (QI =0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.58	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 Khushbu Suthar



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/02

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/1494D/76A/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Old Pit Reservoir

Sample Quantity: Sample Condition: 3 L

Satisfactory

Sampling Date:

27/07/2024 29/07/2024 Sample Receipt Date: 30/07/2024

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

06/08/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	172.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	39.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.75	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.35	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	*	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.72	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	26.93	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	316.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	193.000	mg/L	APHA 23rd Edn 2340 C	200	600

AL& PL As Per IS 10500.

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

Analyzed By Khushbu Suthar



Authorized Signatory Manish Kumawat

Page No: 1/2

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Report Number: GGMPL/PN/1494D/76A/02

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1494D/76A/02

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

Old Pit Reservoir

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: 30/07/2024 Analysis End Date: 06/08/2024

Sampling Method:

GGMPL/WI/27A

Packing:

27/07/2024

29/07/2024

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.06	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 Khushbu Suthar End of Report --

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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/03

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/1494D/76A/03

Sample Drawn By:

Laboratory Representative

Sample Type:

3 L

Sample Description:

Kurmuda Plant

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date: Sample Receipt Date: 27/07/2024 29/07/2024

Analysis Start Date: Analysis End Date:

30/07/2024 06/08/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	37.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	40.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.42	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.92	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	sec_	IS 3025- Part 5	Agreeable	e Agreeable
8	pH at 25 °C	7.53		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	29.67	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	276.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	176.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL& PL As Per IS 10500.

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

Analyzed By Khushbu Suthar



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M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1494D/76A/03

Sampling Date:

27/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

29/07/2024 30/07/2024

Sample Type:

Water Kurmuda Plant Analysis Start Date: 30/0 Analysis End Date: 06/0

06/08/2024

Sample Description: Sample Quantity:

3.1

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.77	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 Khushbu Suthar

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/04

M/s Moil Limited

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

Reporting Date: 07/08/2024



### SAMPLE DETAILS

Lab ID:

Lab/PN/1494D/76A/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Pond Nr Shiv Mandir

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

27/07/2024

29/07/2024 30/07/2024

06/08/2024 GGMPL/WI/27A

Sealed

Specification:

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Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	38.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.78	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.42		IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.69	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	276.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO3	188.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL& PL As Per IS 10500.

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Analyzed By Khushbu Suthar AHMEDABAD PY

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M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Lab/PN/1494D/76A/04 Laboratory Representative

Sample Receipt Date: Analysis Start Date:

Sampling Date:

29/07/2024 30/07/2024

27/07/2024

Sample Type: Sample Description: Water Pond Nr Shiv Mandir

Analysis End Date: Sampling Method:

06/08/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: Satisfactory

3 L

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.16	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL& PL As Per IS 10500.

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

Morning Analyzed By Khushbu Suthar AHMEDABAD

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/05

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID: Sample Dr

Sample Drawn By: Sample Type: Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1494D/76A/05

Laboratory Representative

Ambient Air Nr Mine Workshop Ambient Temperature

Satisfactory

Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing: 30/07/2024-06/08/2024 24

27/07/2024

28/07/2024

29/07/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.38	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.00	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.04	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.27	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.47	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar AHMEDABAD PV

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/05

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1494D/76A/05 Laboratory Representative Ambient Air Nr Mine Workshop Ambient Temperature Satisfactory 

 Sampling Start Date:
 27/07/2024

 Sampling End Date:
 28/07/2024

 Sample Receipt Date:
 29/07/2024

 Analysis start- End Date:
 30/07/2024-06/08/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/06

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1494D/76A/06

Laboratory Representative

Ambient Air

Nr Railway Station Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 27/07/2024 28/07/2024

29/07/2024

30/07/2024-06/08/2024

25±5°C

ir.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.02	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.41	µg/m3	GGMPI /SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.99	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.83	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.72	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.95	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)	1.12269	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar AHMEDABAD PV

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/06

M/s Moil Limited

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

Reporting Date: 07/08/2024



### SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1494D/76A/06 Laboratory Representative Ambient Air Nr Railway Station Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date: Analysis start- End Date: Total Sampling hours:

29/07/2024 30/07/2024-06/08/2024 24

27/07/2024

28/07/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/07

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1494D/76A/07

Laboratory Representative

Ambient Air

Kurmuda Grampanchayat Office

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 27/07/2024 28/07/2024

28/07/2024 29/07/2024

30/07/2024-06/08/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.34	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.10	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.67	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.96	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.30	μg/ <b>m</b> 3	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)	1.06541	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar AHMEDABAD W

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/07

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1494D/76A/07 Laboratory Representative Ambient Air

Kurmuda Grampanchayat Office Ambient Temperature

Satisfactory

 Sampling Start Date:
 27/07/2024

 Sampling End Date:
 28/07/2024

 Sample Receipt Date:
 29/07/2024

 Analysis start- End Date:
 30/07/2024-06/08/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3,4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/08

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1494D/76A/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:

24 Env. Cond.-Testing:

29/07/2024 30/07/2024-06/08/2024

27/07/2024

28/07/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.93	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	24.99	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.67	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.27	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.78	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.71	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07687	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

Analyzed By Khushbu Suthar

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

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/08

M/s Moil Limited

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

Reporting Date: 07/08/2024



### SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1494D/76A/08 Laboratory Representative

Ambient Air Nr Mine Magazine Ambient Temperature

Satisfactory

Sampling Start Date: 27/07/2024 Sampling End Date: 28/07/2024 Sample Receipt Date: 29/07/2024

Analysis start- End Date: Total Sampling hours:

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

28/07/2024 29/07/2024 30/07/2024**-**06/08/2024

14

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1494D/76A/09

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

27/07/2024

Source Noise

Si.Nu	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1494D/7 6A/09A	Near Mine Workshop	Day Time	dB(A)Leq	IS 4758	62.6	-
2	Lab/PN/1494D/7 6A/09B	Near Houlage Road	Day Time	dB(A)Leq	IS 4758	56.8	
3	Lab/PN/1494D/7 6A/09C	Near Crushing and Screening	Day Time	dB(A)Leq	IS 4758	64.3	-
4	Lab/PN/1494D/7 6A/09D	Near Mine Magazine	Day Time	dB(A)Leq	IS 4758	59.9	

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1495D/76A/01

M/s Moil Limited

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

Reporting Date: 05/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1495D/76A/01

27/07/2024

Sample Drawn By:

Laboratory Representative

Sample Type: Sample Description: Ground Water

29/07/2024 30/07/2024

Sample Quantity:

Nr Workshop Borewell (GW)

05/08/2024

Sample Condition:

500 ml Satisfactory Analysis End Date: Sampling Method:

Sample Receipt Date:

Analysis Start Date:

GGMPL/WI/27A

Packing:

Sampling Date:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

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Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1495D/76A/02

M/s Moil Limited

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

Reporting Date: 05/08/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/1495D/76A/02

Laboratory Representative Ground Water

Old Pit Reservior (GW)

500 ml Satisfactory Sampling Date:

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

Sampling Method:

Packing:

27/07/2024

29/07/2024 30/07/2024 05/08/2024

GGMPL/WI/27A Sealed

Specification:

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

AL & PL as per IS 10500.

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

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Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1495D/76A/03

M/s Moil Limited

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

Reporting Date: 05/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1495D/76A/03

Sampling Date:

27/07/2024

Sample Drawn By: Sample Type:

Laboratory Representative Ground Water

Sample Receipt Date: Analysis Start Date:

29/07/2024 30/07/2024

Sample Description:

Kurmuda Plant (GW)

Analysis End Date:

05/08/2024

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

GGMPL/WI/27A

Packing:

Sealed

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

AL & PL as per IS 10500.

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

Nidhi Shah

End of Report --

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1495D/76A/04

M/s Moil Limited

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

Reporting Date: 05/08/2024



TC-7073

27/07/2024

29/07/2024

30/07/2024

05/08/2024

### SAMPLE DETAILS

Lab ID:

Sample Description:

Sample Quantity:

Sample Condition:

Sample Drawn By: Sample Type:

Lab/PN/1495D/76A/04 Laboratory Representative

Ground Water Pond Nr Shiv Mandir (GW)

500 ml

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
1	Total coliform	Absent	per 100ml	APHA 9221B 24th Edition 2021	Absent	Absent
2	E. coli	Absent	per 100ml	APHA 9221G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

Nidhi Shah

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1496D/76B/01

M/s Moil Limited

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

Reporting Date: 07/08/2024



### SAMPLE DETAILS

Lab ID:

Lab/PN/1496D/76B/01

Sampling Date: 27/

27/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date: 29/07/2024 30/07/2024

Sample Type:

Water

Analysis End Date:

06/08/2024

Sample Description:

Syndicate Colony (DW)

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Concification

					S	pecification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	144.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	39.27	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	30.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	15.55	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable		IS 3025 Part 5	Agreeable	e Agreeable
7	pH at 25 °C	7.72		IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	20.59	mg/L	APHA 23rd Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	228.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	162.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS

AL & PL as per IS 10500.

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

Analyzed By Khushbu Suthar



Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/1496D/76B/01

M/s Moil Limited

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

Reporting Date: 07/08/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/1496D/76B/01

Laboratory Representative Water

Syndicate Colony (DW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

27/07/2024

29/07/2024 30/07/2024

06/08/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edition (2130 B):	1	5
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)	0.45	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	0.90	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 Khushbu Suthar

End of Report ---

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1496D/76B/02

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/1496D/76B/02

Sampling Date:

27/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

29/07/2024

Sample Type:

Water

Analysis Start Date:

30/07/2024 06/08/2024

Sample Description:

Pond Near Filter Plant (GW)

Analysis End Date: Sampling Method:

Sample Quantity:

GGMPL/WI/27A

Sample	Condition: Satisfactor	v		Packing:	Sealed	
						Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	154.0	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	41.28	mg/L	APHA 23rd Edn 3500 C	Ca B 75	200
3	Chloride	26.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.73	mg/L	APHA 23rd Edn 4500 F	D 1.0	1.5
6	Magnesium as Mg	20.89	mg/L	APHA 23rd Edn 3500 M	1g B 30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agree	able Agreeabl
8	pH at 25 °C	7.76		IS 3025- Part 11	6.5-8.	5 No relaxation
9	Sulphate	18.54	mg/L	APHA 23rd Edn 4500 S	O4 E 200	400
10	Total Dissolved Solids (TDS)	256.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

Khushbu Suthar



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1496D/76B/02

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

### SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/1496D/76B/02 Laboratory Representative Sampling Date: Sample Receipt Date: 27/07/2024 29/07/2024

Sample Type:

Water

Analysis Start Date: Analysis End Date:

30/07/2024 06/08/2024

Sample Description:

Pond Near Filter Plant (GW)

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 3 L Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	Al	PI
12	Total Hardness as CaCO3	189.0	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	0.0	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxatio
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.96	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxatio

AL & PL as per IS 10500.

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1496D/76B/03

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Lab/PN/1496D/76B/03 Laboratory Representative

Ambient Air

Near Siren Room Dump

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

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testina:

24 25±5°C

27/07/2024

28/07/2024

29/07/2024

30/07/2024-06/08/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.07	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	26.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.43	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.81	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.53	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.53	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/1496D/76B/03

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1496D/76B/03 Laboratory Representative

Ambient Air

Near Siren Room Dump

Ambient Temperature Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

29/07/2024 30/07/2024-06/08/2024

Total Sampling hours: Env. Cond.-Testing:

24 25±5°C

27/07/2024

28/07/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1496D/76B/04

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Ammonia (NH3)

Lab/PN/1496D/76B/04 Laboratory Representative

Ambient Air Syndicate Colony

Ambient Temperature Satisfactory Sampling Start Date: 27/07/2024 Sampling End Date: 28/07/2024

Sample Receipt Date:

Analysis start- End Date:

GGMPL/SOP/AA/62 Issue No.02

Total Sampling hours: 2 Env. Cond.-Testing: 2

25±5°C

29/07/2024

30/07/2024-06/08/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.75	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	24.16	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.38	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.60	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.02	µg/m3	IS 5182- Part 9	180

µg/m3

August 01

7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

12.71

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

Analyzed By Khushbu Suthar AHMEDABAD WAS A STATE OF THE CHANGE OF THE C

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/1496D/76B/04

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Lab/PN/1496D/76B/04

Laboratory Representative

Syndicate Colony

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

Ambient Air

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

27/07/2024

28/07/2024

29/07/2024

30/07/2024-06/08/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar \*

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1496D/76B/05

M/s Moil Limited

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

Reporting Date: 07/08/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

27/07/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1496D/7	Foot Wall Houlage Dood	Day Time	JD(A)1	TC 47F0	F0.0	
1	6B/05A	Foot Wall Haulage Road	Day Time	dB(A)Leq	IS 4758	58.9	
2	Lab/PN/1496D/7	Near Oiren Room Dump	Day Time	dP/A)I aa	TC 47F0	65.4	
2	6B/05B	Near Offer Room Dump	Day Time	dB(A)Leq	IS 4758	65.4	0.58

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Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1497D/76B/01

M/s Moil Limited

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

Reporting Date: 05/08/2024



TC-7073

### SAMPLE DETAILS

Lab ID:

Lab/PN/1497D/76B/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Drinking Water of Syndicate Colony (DW)

Sample Quantity:

Satisfactory

Sample Condition:

500 ml

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

27/07/2024 29/07/2024 30/07/2024

05/08/2024 GGMPL/WI/27A

Sealed

Specification:

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

AL & PL as per IS 10500.

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





Authorized Signatory Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1497D/76B/02

M/s Moil Limited

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

Reporting Date: 05/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

70

Lab/PN/1497D/76B/02

Sample Drawn By: Sample Type: Laboratory Representative Ground Water

Sample Description:

Pond Near Filter Plant (GW) 500 ml

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

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

te: 29/07/2024 :: 30/07/2024 05/08/2024 GGMPL/WI/27A

27/07/2024

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah AHMEDABAD S --- End of Report ---

Authorized Signatory
Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1498D/76C/01

M/s Moil Limited

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

Reporting Date: 06/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1498D/76C/01

Sampling Date:

27/07/2024

Sample Drawn By:

Laboratory Representative

G.W Of Mine Pit Discharge

Sample Receipt Date:

29/07/2024

Sample Type: Sample Description:

Analysis Start Date: Analysis End Date:

29/07/2024 05/08/2024

Sample Quantity:

3 L

Sampling Method:

GGMPL/WI/27A

Sealed

Sample Condition: Satisfactory Packing: Specification: Sr.No Parameters Results Unit Test Method AL PL Alkalinity as CaCO3 162.00 mq/L APHA 23rd Edn 2320 B 200 600 2 Calcium as Ca 56.11 mg/L APHA 23rd Edn 3500 Ca B 75 200 Chloride 68.97 mg/L IS 3025- Part 32 250 1000 Colour BQL (QL=1) CU IS 3025- Part 4 5 15 5 Fluoride 0.61 mg/L APHA 23rd Edn 4500 F D 1.0 1.5 Magnesium as Mg 22.11 APHA 23rd Edn 3500 Mg B mg/L 100 7 Odour Agreeable IS 3025- Part 5 Agreeable Agreeable 8 pH at 25 °C 7.65 No IS 3025- Part 11 6.5-8.5 relaxation Sulphate 46.84 mg/L APHA 23rd Edn 4500 SO4 E 200 400 10 Total Dissolved Solids (TDS) 368.00 mg/L APHA 23rd Edn 2540 C 500 2000 Total Suspended Solids (TSS) 15.00 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

Kinjal Damor



Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1498D/76C/01

M/s Moil Limited

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

Reporting Date: 06/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1498D/76C/01

Sampling Date:

27/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

29/07/2024

Sample Type:

Water

Analysis Start Date:

29/07/2024 05/08/2024

Sample Description:

G.W Of Mine Pit Discharge

Analysis End Date:

03/00/2021

Sample Quantity: Sample Condition: 3 L

Satisfactory Packing:

Sampling Method:

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	231.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxatio
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.66	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxatio

AL & PL As Per IS 10500.

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

Analyzed By Kinjal Damor



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Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1498D/76C/02

M/s Moil Limited

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

Reporting Date: 06/08/2024



TC-707

### SAMPLE DETAILS

Lab ID:

Lab/PN/1498D/76C/02

Sample Drawn By:

Laboratory Representative

Water

Sample Type: Sample Description:

G.W of Piezometer Borewell

Sample Quantity:

3 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

27/07/2024

29/07/2024 29/07/2024

05/08/2024 GGMPL/WI/27A

Sealed

Specification:

						specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	173.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	54.50	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	62.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.53	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	23.32	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.79	(	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	40.89	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	339.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
_12	Total Hardness as CaCO3	232.00	mg/L	APHA 23rd Edn 2340 C	200	600

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

Analyzed By Kinjal Damor



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1498D/76C/02

M/s Moil Limited

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

Reporting Date: 06/08/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/1498D/76C/02

Sampling Date:

27/07/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

29/07/2024 29/07/2024

Sample Description:

G.W of Piezometer Borewell

Analysis End Date: Sampling Method:

05/08/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

3 L Satisfactory

Packing:

Sealed

Specification:

Sr.No	Paramete	ers Results	Unit	Test Method	AL	PL
13	Turbidity	4.98	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	5.05	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

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

Analyzed By Kinjal Damor

End of Report ---

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1498D/76C/03

M/s Moil Limited

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

Reporting Date: 06/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1498D/76C/03

Laboratory Representative

Ambient Air

Near Haulage Road viewpoint

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 27/07/2024 27/07/2024

29/07/2024

29/07/2024-05/08/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	56.60	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	22.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.87	μ <b>g</b> /m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.55	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.02	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.47	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor AHMEDABAD W

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1498D/76C/03

M/s Moil Limited

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

Reporting Date: 06/08/2024



TC-7073

## SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1498D/76C/03 Laboratory Representative Ambient Air

Near Haulage Road viewpoint Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hours:

Total Sampling hours: Env. Cond.-Lesting: 27/07/2024 27/07/2024 29/07/2024

29/07/2024-05/08/2024

24 25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
I emperature	25	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	56	%	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	2.4	m/s	GGMPL/SOP/MP/01:2020	NS
	l emperature Relative Humidity Rainfall Lead	Relative Humidity 56 Rainfall 0.0 Lead BQL (QL=0.001)	I emperature         25         °C           Relative Humidity         56         %           Rainfall         0.0         mm           Lead         BQL (QL=0.001)         μg/m3	Temperature         25         °C         GGMPL/SOP/MP/01           Relative Humidity         56         %         GGMPL/SOP/MP/01           Rainfall         0.0         mm         GGMPL/SOP/MP/01:2020           Lead         BQL (QL=0.001)         μg/m3         USEPA Method IO 3.4

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

Analyzed By Kinjal Damor AHMEDARAD End of Report

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1498D/76C/04

M/s Moil Limited

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

Reporting Date: 06/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1498D/76C/04

Laboratory Representative

Ambient Air

Near Mine Hospital

Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 27/07/2024

27/07/2024 29/07/2024

29/07/2024-05/08/2024

24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	52.98	μ <b>g</b> /m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.93	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.40	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.47	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	5.65	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor AHMEDARAD WAS A STORY OF THE CHANGE OF THE C

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1498D/76C/04

M/s Moil Limited

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

Reporting Date: 06/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1498D/76C/04

Laboratory Representative

Ambient Air

Near Mine Hospital Ambient Temperature

Satisfactory

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

Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 27/07/2024 27/07/2024 29/07/2024

29/07/2024-05/08/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	0.00108	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor MEDABAD OF Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1498D/76C/05

M/s Moil Limited

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

Reporting Date: 06/08/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

27/07/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	0C/03A	Near Haulage Road View Point	Day Time	dB(A)Leq	IS 4758	61.4	
2	Lab/PN/1498D/7 6C/05B	Near Mine Hospital	Day Time	dB(A)Leq	IS 4758	56.4	

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

Analyzed By

Kinjal Damor

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1499D/76C/01

M/s Moil Limited

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

Reporting Date: 05/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Type:

Lab/PN/1499D/76C/01

Sample Drawn By:

Laboratory Representative

Ground Water

Sample Description:

Mine Pit Discharge (GW)

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

27/07/2024 Sample Receipt Date:

Analysis Start Date:

29/07/2024 30/07/2024

Analysis End Date: Sampling Method:

05/08/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL As per IS 10500.

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

--- End of Report ---

AHMEDABAD

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1499D/76C/02

M/s Moil Limited

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

Reporting Date: 05/08/2024

TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1499D/76C/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Ground Water

Sample Description: Sample Quantity:

Piezometer Borewell (GW)

500 ml

Sample Condition:

Satisfactory

Sampling Date:

27/07/2024 Sample Receipt Date: 29/07/2024

Analysis Start Date: Analysis End Date:

30/07/2024 05/08/2024 GGMPL/WI/27A

Sampling Method: Packing:

Sealed

Specification:

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

AL & PL As Per IS 10500.

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

End of Report ---

Authorized Signatory Dr. Haragobinda Srichandan

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1500D/76D/01

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/1500D/76D/01

Sampling Date:

27/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

29/07/2024 30/07/2024

Sample Type:

Water

Analysis Start Date: Analysis End Date:

06/08/2024

Sample Description: Sample Quantity: D.W of Near Pit Office 3 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing: Sea

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	140.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	44.08	mq/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	50.98	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	31.59	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeab
7	pH at 25 °C	7.95	-	IS 3025 Part 11	6.5 8.5	No Relaxatio
8	Sulphate	31.23	mg/L	ΛΡΗΛ 23rd Edition (4500 SO4 E)	200	100
9	Total Dissolved Solids (TDS)	272.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	240.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edition (2130 B):	1	5

AL & PL As Per IS 10500.

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

Analyzed By Kinjal Damor



Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1500D/76D/01

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1500D/76D/01

Sampling Date: Sample Receipt Date:

27/07/2024 29/07/2024

Sample Drawn By: Sample Type:

Laboratory Representative

Analysis Start Date:

30/07/2024 06/08/2024

Sample Description:

D.W of Near Pit Office

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: 31 Sample Condition:

Satisfactory

Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	BQL (QL=0.1)	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	2.44	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

Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1500D/76D/02

M/s Moil Limited

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

Reporting Date: 07/08/2024



# SAMPLE DETAILS

Lab ID: Sample Drav

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

Env. Cond.-Sample Receipt:

Lab/PN/1500D/76D/02

Laboratory Representative

Ambient Air Near Pit Office Ambient Temperature

Satisfactory

Sampling Start Date: 27/07/2024 Sampling End Date: 28/07/2024 Sample Receipt Date: 29/07/2024

Sample Receipt Date: 29/07/2024 Analysis start- End Date: 30/07/2024-06/08/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	43.68	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	21.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.61	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.47	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.02	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	5.65	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor AHMEDABAD COM AHMEDABAD COM AHMEDABAD

Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1500D/76D/02

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1500D/76D/02

Laboratory Representative

Ambient Air Near Pit Office

Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 27/07/2024 28/07/2024

29/07/2024 30/07/2024-06/08/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	65	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor Authorized Signatory Tantan Kumar

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1500D/76D/03

M/s Moil Limited

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

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

27/07/2024

Source Noise

Sr.No Lab Id	Location	Time	Unit	Test Method	Reading	Norms
Lab/PN/1500D/7 6D/03A	Near Plt Office	Day Time	dB(Λ)Loq	IS 4758	63.6	

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

Kinjal Damor

Authorized Signatory Tantan Kumar

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1501D/76D/01

M/s Moil Limited

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

Reporting Date: 05/08/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/1501D/76D/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Near Pit Office (DW)

Sample Quantity: Sample Condition: 500 ml

Satisfactory

Sampling Date:

27/07/2024

Sample Receipt Date: Analysis Start Date:

29/07/2024 30/07/2024

Analysis End Date:

05/08/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Nidhi Shah

End of Report

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/01

M/s Moil Limited

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

(M.S)

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/1508D/76F/01

Sampling Date:

28/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

30/07/2024 31/07/2024

Sample Type: Sample Description: Waste Water Boiler Water (Inlet) (WW)

Analysis End Date:

06/08/2024

Sample Quantity:

4 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.50		IS 3025- Part 11	
2	Total Suspended Solids	BQL (QL=10)	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Demand	28.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.1	mg/L	IS 3025- Part 38	
б	BOD at 27 o C for 3 days	10	mg/L	IS 3025- Parl 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

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

Kinial Damor

End of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/02

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/1508D/76F/02

Sampling Date:

28/07/2024

Sample Drawn By: Sample Type: Laboratory Representative

Sample Receipt Date: Analysis Start Date: 30/07/2024 31/07/2024 06/08/2024

Sample Description:

RO Water Nr. Admin Office (DW)

Analysis End Date:

GGMPL/WI/27A

Sample Quantity:

4 L

Sampling Method: Packing:

ran-n-syvvi

Sample Condition:

Satisfactory

Packing: Sealed

					Sp	pecification:
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	102.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	39.67	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	24.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	5.83	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable		IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.82		IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	13.85	mg/L	APHA 23rd Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	198.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	123.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Kinjal Damor AHMEDABAD W

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/02

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/1508D/76F/02

Sampling Date:

28/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

30/07/2024

Sample Type:

Water

Satisfactory

Analysis Start Date:

31/07/2024 06/08/2024

Sample Description:

RO Water Nr. Admin Office (DW)

Analysis End Date:

Sample Quantity: Sample Condition: 4L

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edition (2130 B):	1	5
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)	0.12	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	1.82	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



Authorized Signatory Manish Kumawat

Page No: 2/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/03

M/s Moil Limited

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

(M.S)



## SAMPLE DETAILS

Lab ID:

Lab/PN/1508D/76F/03

Sampling Date:

28/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

30/07/2024

Sample Type:

Waste Water

Analysis Start Date:

31/07/2024 06/08/2024

Sample Description:

Drainage Water (Near Admin Office) (WW)

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

r.No	Parameters	Results	Unit	Test Method	Norm
1 p	oH at 25 °C	7.83		IS 3025- Part 11	
2 7	Fotal Suspended Solids	42.00	mg/L	APHA 23rd Edn 2540 D	
3 (	Dil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	
4 (	Chemical Oxygen Demand	140.00	mg/L	APHA 23rd Edn 5220 B	
5 0	Dissolved Oxygen	3.1	mg/L	IS 3025- Part 38	
6 E	3OD at 27 o C for 3 days	40	mg/L	IS 3025- Part 44	
7 N	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

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

Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/04

M/s Moil Limited

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

(M.S)

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Lab/PN/1508D/76F/04

Sampling Date:

28/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

30/07/2024 31/07/2024

Sample Type: Sample Description: Waste Water ETP Inlet (WW) Analysis Start Date: Analysis End Date:

06/08/2024

Sample Quantity:

41

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.23	-	IS 3025- Part 11	-
2	Total Suspended Solids	32.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	
4	Chemical Oxygen Demand	84.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.8	mg/L	IS 3025- Part 38	
6	BOD at 27 o C for 3 days	26	mg/L	IS 3025- Part 44	
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	

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

Analyzed By Kinjal Damor Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/05

M/s Moil Limited

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

(M.S)

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1508D/76F/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:

28/07/2024 29/07/2024

30/07/2024

31/07/2024-06/08/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	56.05	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.62	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.40	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.96	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.06	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.02	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/05

M/s Moil Limited

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

(M.S)

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1508D/76F/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:

Total Sampling hours: Env. Cond.-Testing: 28/07/2024 29/07/2024 30/07/2024

31/07/2024-06/08/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	67	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor Authorized Signatory Manish Kumawat

Page No: 2/2

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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/1508D/76F/06

M/s Moil Limited

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

(M.S)

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1508D/76F/06

Laboratory Representative

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:

Env. Cond.-Testing:

28/07/2024

29/07/2024 30/07/2024

31/07/2024-06/08/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	54.12	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.58	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.37	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.22	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	5.65	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

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

Analyzed By Kinjal Damor AHMEDARAD S

Authorized Signatory Manish Kumawat

Page No: 1/2

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Report Number: GGMPL/PN/1508D/76F/06

M/s Moil Limited

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

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/1508D/76F/06 Laboratory Representative Ambient Air Near infront of MCC Room

Ambient Temperature Satisfactory

Sampling Start Date: 28/07/2024 Sampling End Date: Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing:

29/07/2024 30/07/2024 31/07/2024-06/08/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	66	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 2/2



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

Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/07

M/s Moil Limited

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

(M.S)

Reporting Date: 07/08/2024



# SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1508D/76F/07

Laboratory Representative Ambient Air

Near Shift incharge Room Ambient Temperature

Satisfactory

Sampling Start Date: 28/07/2024 Sampling End Date: 29/07/2024

Sample Receipt Date:

Total Sampling hours:

30/07/2024 Analysis start- End Date: 31/07/2024-06/08/2024

rotal sampling nous.	21
Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	53.02	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)	14.10	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.15	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.30	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	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

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

Analyzed By Kinial Damor

Authorized Signatory Manish Kumawat

Page No: 1/2

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/07

M/s Moil Limited

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

(M.S)

Reporting Date: 07/08/2024



TC-7073

## SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1508D/76F/07 Laboratory Representative

Ambient Air

Near Shift incharge Room Ambient Temperature

Satisfactory

Sampling Start Date: 28/0 Sampling End Date: 29/0

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 28/07/2024 29/07/2024 30/07/2024

31/07/2024-06/08/2024

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	67	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/08

M/s Moil Limited

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

(M.S)

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1508D/76F/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:

ate: 31/07/2024-06/08/2024 s: 24

25±5°C

28/07/2024

29/07/2024

30/07/2024

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	51.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.56	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.09	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	5.65	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)	1.01	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

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

Analyzed By Kinjal Damor AHMEDABAD V

Authorized Signatory Manish Kumawat

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/08

M/s Moil Limited

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

(M.S)

Reporting Date: 07/08/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/1508D/76F/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: 28/07/2024 29/07/2024

30/07/2024

31/07/2024-06/08/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	68	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Kinjal Damor AHMEDABAD C

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/09

M/s Moil Limited

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

(M.S)



## SAMPLE DETAILS

Lab ID:

Lab/PN/1508D/76F/09

Sampling Date:

28/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

30/07/2024

Sample Type:

Stack

Analysis start- End Date:

31/07/2024-06/08/2024

Stack Height & Dia (m):

30 & 0.5

Stack Temperature (°C):

123

Stack Attached To:

CFB Boiler

Stack gas velocity (m/sec):

11.01

Fuel Used:

Coal

Volume of Air Sampled in NM3: 0.8541

Sr.No	Parameters	Results	Unit	Test Method	Norms
1 Oxides	of Nitrogen	18.93	ppm	IS 11255- Part 7	
2 Particu	ılate Matter	40.04	mg/Nm³	IS 11255- Part 1	
3 Sulphu	ır Dioxides	13.02	ppm	IS 11255- Part 2	-

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

Analyzed By Kinjal Damor AHMEDABAD PV

--- End of Report ---

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1508D/76F/10

M/s Moil Limited

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

(M.S)

Reporting Date: 07/08/2024



## SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

28/07/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1508D/7 GF/10A	Near Admin office	Day Time	dB(A)Leq	15 4/58	61.2	
2	Lab/PN/1508D/7 6F/10B	Near infront of MCC Room	Day Time	dB(A)Leq	IS 4758	68.8	-
3	Lab/PN/1508D/7 6F/10C	Near Shift Incharge Room	Day Time	dB(A)Leq	IS 4758	65.6	-
4	Lab/PN/1508D/7 6F/10D	Near Plant Workshop	Day Time	dB(A)Leq	IS 4758	69.3	+

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1509D/76F/01

M/s Moil Limited

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

(M.S)

Reporting Date: 06/08/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/1509D/76F/01

Sampling Date:

28/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

30/07/2024

Sample Type:

Water

Analysis Start Date:

31/07/2024 06/08/2024

Sample Description:

RO Water Nr. Admin Office (DW)

Analysis End Date:

Sample Quantity: Sample Condition:

500 ml Satisfactory Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Nidhi Shah

--- End of Report ---

AHMEDABAD

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1510D/76E/01

M/s Moil Limited

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

Reporting Date: 08/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1510D/76E/01

At Siding Office (DW)

Sampling Date:

28/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

30/07/2024 30/07/2024

Sample Type: Sample Description: Water

Analysis Start Date: Analysis End Date:

07/08/2024

Sample Quantity:

31

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

0.010.000	-0 5000 0000 00000 00000 00 00 00 00 00 0			5		
			THE P			Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL +
1	Alkalinity as CaCO3	98.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	38.07	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	32.48	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	8.01	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	W- 1947	IS 3025 Part 5	Agreeable	e Agreeabl
7	pH at 25 °C	7.82		IS 3025-Part 11	6.5-8.5	No Relaxatio
8	Sulphate	22.64	mg/L	APHA 23rd Edition (4500 SO4 E)	200	400
9	Total Dissolved Solids (TDS)	196.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO3	128.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS

AL & PL as per IS 10500.

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

Analyzed By Khushbu Suthar



Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1510D/76E/01

M/s Moil Limited

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

Reporting Date: 08/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

3 L

Sample Quantity: Sample Condition: Lab/PN/1510D/76E/01

Laboratory Representative Water

At Siding Office (DW)

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

GGMPL/WI/27A

Sealed

28/07/2024

30/07/2024

30/07/2024

07/08/2024

Specification:

					The state of the s
Parameters	Results	Unit	Lest Method	AL	PL
Lurbidity	BQL (QL=0.1)	NTU	APLIA 23rd Edition (2130 B):	1	5
Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
Fluoride (F)	0.73	mg/L	APHA 23rd Edn 4500 F D	1	1.5
Nitrate	0.98	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation
	Iurbidity Iron Manganese Fluoride (F)	Iurbidity         BQL (QL=0.1)           Iron         BQL (QL=0.05)           Manganese         BQL (QL=0.05)           Fluoride (F)         0.73	I urbidity         BQL (QL=0.1)         NTU           Iron         BQL (QL=0.05)         mg/L           Manganese         BQL (QL=0.05)         mg/L           Fluoride (F)         0.73         mg/L	Iurbidity         BQL (QL=0.1)         NTU         API IA 23rd Edition (2130 B):           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)         0.73         mg/L         APHA 23rd Edn 4500 F D	Iurbidity         BQL (QL=0.1)         NTU         API IA 23rd Edition (2130 B):         1           Iron         BQL (QL=0.05)         mg/L         GGMPL/SOP/W & WW/46         0.3           Manganese         BQL (QL=0.05)         mg/L         GGMPL/SOP/W & WW/46         0.1           Fluoride (F)         0.73         mg/L         APHA 23rd Edn 4500 F D         1

AL & PL as per IS 10500.

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

Analyzed By Khushbu Suthar End of Repe

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1510D/76E/02

M/s Moil Limited

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

Reporting Date: 08/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1510D/76E/02

Sampling Date:

28/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

30/07/2024

Sample Type:

Ground Water

Analysis Start Date:

30/07/2024

Sample Description:

Borewell Water Near Balapur Hamesha Camp Analysis End Date:

07/08/2024

(GW) Sample Quantity:

3 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

	- CONTROL CONT					
		18-91-19	THE RES	WEST TEST TO STATE	55-31	Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO3	174.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	44.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	38.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.65	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.41	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable		IS 3025- Part 5	Agreeabl	e Agreeable
8	pH at 25 °C	7.75	186	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.98	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids (TDS)	296.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

Khushbu Suthar

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Report Number: GGMPL/PN/1510D/76E/02

M/s Moil Limited

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

Reporting Date: 08/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1510D/76E/02 Laboratory Representative

Sampling Date: Sample Receipt Date: 28/07/2024 30/07/2024

Sample Drawn By: Sample Type:

Ground Water

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

30/07/2024 07/08/2024

Sample Description:

(GW)

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 3 L Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO3	196.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.31	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 Khushbu Suthar



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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1510D/76E/03

M/s Moil Limited

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

Reporting Date: 08/08/2024



## SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description: Lab/PN/1510D/76E/03

Laboratory Representative Ambient Air

Near Siding Office

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

29/07/2024 30/07/2024

28/07/2024

30/07/2024-07/08/2024

Env. CondSampling:	Ambient Temperature	Total Sampling hours:	24
Env. CondSample Receipt:	Satisfactory	Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.38	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.39	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.51	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.27	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.47	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	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 Khushbu Suthar

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1510D/76E/03

M/s Moil Limited

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

Reporting Date: 08/08/2024



## SAMPLE DETAILS

Lab ID: Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Lab/PN/1510D/76E/03 Laboratory Representative Ambient Air Near Siding Office

Ambient Temperature

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours:

24

30/07/2024-07/08/2024

28/07/2024

29/07/2024

30/07/2024

Env. Cond.-Sample Receipt: Satisfactory Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	67	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1510D/76E/04

M/s Moil Limited

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

Reporting Date: 08/08/2024



## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Lab/PN/1510D/76E/04 Laboratory Representative

Ambient Air

Near Loading Area

Sampling Start Date: Sampling End Date:

Sample Receipt Date:

Analysis start- End Date:

Total Sampling hours:

28/07/2024

29/07/2024 30/07/2024

30/07/2024-07/08/2024

24

Env. Cond.-Sampling: Ambient Temperature Env. Cond.-Sample Receipt: Satisfactory Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65,47	<b>µg/m</b> 3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.30	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.08	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.09	μg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.71	μg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Khushbu Suthar

Authorized Signatory Manish Kumawat

Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1510D/76E/04

M/s Moil Limited

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

Reporting Date: 08/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/1510D/76E/04 Laboratory Representative

Ambient Air Near Loading Area

Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date:

Sample Receipt Date:

Analysis start- End Date:

29/07/2024 :: 30/07/2024 oate: 30/07/2024-07/08/2024

rs: 24

Total Sampling hours: Env. Cond.-Testing:

25±5°C

28/07/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	67	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Khushbu Suthar AHMEDABA9

Authorized Signatory Manish Kumawat

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1510D/76E/05

M/s Moil Limited

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

Reporting Date: 08/08/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

28/07/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1510D/7 6E/05A	Near Siding Office	Day Time	dB(A)Leq	IS 4758	58.9	
2	Lab/PN/1510D/7 6E/05B	Near Loading Area	Day Time	dB(A)Leq	IS 4758	62.4	

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

Analyzed By Khushbu Suthar Authorized Signatory Manish Kumawat

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1511D/76E/01

M/s Moil Limited

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

Reporting Date: 06/08/2024



TC-7073

## SAMPLE DETAILS

Lab ID:

Lab/PN/1511D/76E/01

Sampling Date: 28/

28/07/2024

Sample Drawn By: Sample Type: Laboratory Representative

Sample Receipt Date:
Analysis Start Date:

30/07/2024 31/07/2024 06/08/2024

Sample Description:

Railway Siding office (DW)

Analysis End Date: Sampling Method:

06/08/2024 GGMPL/WI/27A

Sample Quantity: 500 ml Sample Condition: Satisfactory

Packing:

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

CHAN,

AHMEDABAD

Authorized Signatory Dr. Haragobinda Srichandan

Page No: 1/1

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# **CERTIFICATE OF ANALYSIS**

Report Number: GGMPL/PN/1511D/76E/02

M/s Moil Limited

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

Reporting Date: 06/08/2024



TC-7073

# SAMPLE DETAILS

Lab ID:

Lab/PN/1511D/76E/02

Sampling Date:

28/07/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

30/07/2024

Sample Type:

Ground Water

Analysis Start Date:

31/07/2024 06/08/2024

Sample Description:

Borewell Water near Balapur Hamesha Camp Analysis End Date:

Sampling Method:

GGMPL/WI/27A

Sample Quantity:

(GW) 500 ml

Sample Condition:

Satisfactory

Packing:

Sealed

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

AL & PL as per IS 10500.

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

End of Report

Authorized Signatory Dr. Haragobinda Srichandan

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