

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

Mobile No: 191 7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/01

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2377C/76A/V4/01

Sampling Date:

21/02/2024

Sample Drawn By:

Laboratory Representative

Nr Workshop Borewell (GW)

Sample Receipt Date:

24/02/2024 26/02/2024

Sample Type: Sample Description:

Satisfactory

Analysis Start Date: Analysis End Date:

04/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

4.8L

Sampling Method: Packing:

Sealed

Specification:

					10.75	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.48	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	146.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	48.89	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	58.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.42	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	16.03	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	29.60	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	290.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	188.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

Authorized Signatory Manish Kumawat

Page No: 1/2

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M/s Moil Limited

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

Reporting Date: 05/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition: Lab/PN/2377C/76A/V4/01

Laboratory Representative Water

Nr Workshop Borewell (GW) 4.8L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/02/2024

24/02/2024 26/02/2024 04/03/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.05	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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



Find of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/01A

M/s Moil Limited

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

Reporting Date: 05/03/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2377C/76A/V4/01

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

Nr Workshop Borewell (GW)

Sample Quantity:

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

21/02/2024 24/02/2024

26/02/2024 04/03/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.N	0	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Co	liform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (M	IPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

End of Repor

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/02

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:

Lab/PN/2377C/76A/V4/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Old Pit Reservior (GW)

Sample Quantity:

4.8 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing:

21/02/2024

24/02/2024 26/02/2024 04/03/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Took Mathad	AT	DI.
SI.INO	Farameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.77	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	162.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	47.29	mg/L	APHA 23rd Edn 3500 Ca B	75	100
4	Chloride	59.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.62	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	15.55	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	. Agreeable
9	Sulphate	31.68	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	288.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	182.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	5.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

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M/s Moil Limited

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

Reporting Date: 05/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/2377C/76A/V4/02

Sampling Date: Sample Receipt Date: 21/02/2024 24/02/2024

Sample Type:

Laboratory Representative Water

Analysis Start Date: Analysis End Date:

26/02/2024 04/03/2024

Sample Description: Sample Quantity:

Sample Condition:

Old Pit Reservior (GW) 4.8 L

Satisfactory

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	BQL (QL=0.5)	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

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Page No: 2/2

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M/s Moil Limited

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

Reporting Date: 05/03/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2377C/76A/V4/02 Laboratory Representative

Water

Old Pit Reservior (GW) 4.8 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

21/02/2024

24/02/2024 26/02/2024

04/03/2024 GGMPL/WI/27A

Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

9 * End of Report --

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Page No: 1/1

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Report Number: GGMPL/PN/2377C/76A/V4/03

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/2377C/76A/V4/03 Laboratory Representative

Water

Sample Type: Sample Description:

Kurmuda Plant (GW)

Sample Quantity: Sample Condition:

4.8 L Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

04/03/2024 GGMPL/WI/27A

21/02/2024

24/02/2024

26/02/2024

Packing: Sealed

Specification:

-						
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.41	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	118.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	42.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.31	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	11.17	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	38.31	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	244.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	144.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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



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M/s Moil Limited

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

Reporting Date: 05/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2377C/76A/V4/03

Kurmuda Plant (GW)

Sampling Date:

21/02/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date: Analysis Start Date:

24/02/2024 26/02/2024

Sample Type: Sample Description:

Water

Satisfactory

Analysis End Date:

04/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

4.8 L

Sampling Method:

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	BQL (QL=0.5)	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report ---

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Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/03A

M/s Moil Limited

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

Reporting Date: 05/03/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2377C/76A/V4/03

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Kurmuda Plant (GW)

Sample Quantity:

Sample Condition:

4.8 L

Satisfactory

Sampling Date:

21/02/2024

Sample Receipt Date: Analysis Start Date:

24/02/2024 26/02/2024

Analysis End Date: Sampling Method:

04/03/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

End of Report ---

AHMEDABAD

Authorized Signatory Manish Kumawat

Page No: 1/1

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/04

M/s Moil Limited

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

Reporting Date: 05/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2377C/76A/V4/04

Sampling Date:

21/02/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

24/02/2024 26/02/2024

Sample Type: Sample Description:

Water Pond Nr Shiv Mandir (GW) Analysis Start Date: Analysis End Date: Sampling Method:

04/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

4.8 L Satisfactory

Packing:

Sealed

Specification:

					5	pecification:
Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.62	=:	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	102.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	36.87	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	59.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.16	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	16.28	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	27.42	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	238.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	159.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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





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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/04

M/s Moil Limited

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

Reporting Date: 05/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/2377C/76A/V4/04 Laboratory Representative

Water Pond Nr Shiv Mandir (GW)

4.8 L Satisfactory Sampling Date:

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

Sampling Method: Packing:

04/03/2024 GGMPL/WI/27A

21/02/2024

24/02/2024

26/02/2024

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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	BQL (QL=0.5)	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/04A

M/s Moil Limited

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

Reporting Date: 05/03/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Water Pond Nr Shiv Mandir (GW)

Lab/PN/2377C/76A/V4/04

Laboratory Representative

4.8 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

24/02/2024 26/02/2024 04/03/2024

GGMPL/WI/27A

21/02/2024

Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By Nidhi Shah

--- End of Report

HMEDABAD

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/05

M/s Moil Limited

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

Reporting Date: 05/03/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2377C/76A/V4/05

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: 22/02/2024 24/02/2024

21/02/2024

26/02/2024-04/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.49	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.84	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.09	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.87	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.12	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	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

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Analyzed By Nidhi Shah Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/05

M/s Moil Limited

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

Reporting Date: 05/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2377C/76A/V4/05 Laboratory Representative

Ambient Air Nr Mine Workshop Ambient Temperature

Satisfactory

Sampling Start Date: 21/02/2024 Sampling End Date: 22/02/2024 Sample Receipt Date: 24/02/2024

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing:

26/02/2024-04/03/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Nidhi Shah

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/06

M/s Moil Limited

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

Reporting Date: 05/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2377C/76A/V4/06

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:

22/02/2024 24/02/2024

26/02/2024-04/03/2024

25±5°C

21/02/2024

ir.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.06	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.49	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.80	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.35	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.80	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.97	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/06

M/s Moil Limited

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

Reporting Date: 05/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2377C/76A/V4/06

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:

Total Sampling hours: Env. Cond.-Testing: 21/02/2024 22/02/2024

24/02/2024 26/02/2024-04/03/2024

24 25±5°C

Sr.No Parameters	Results	Unit	Test Method	NAAQ Standards
12 Temperature	30	°C	GGMPL/SOP/MP/01	NS
13 Relative Humidity	54	%	GGMPL/SOP/MP/01	NS
14 Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15 Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16 Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Nidhi Shah AHMEDABAD P

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/07

M/s Moil Limited

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

Reporting Date: 05/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2377C/76A/V4/07

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:

21/02/2024

22/02/2024 24/02/2024

26/02/2024-04/03/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.49	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.78	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.73	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.11	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.97	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah

MAN AHMEDABAD

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/07

M/s Moil Limited

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

Reporting Date: 05/03/2024



TC-7073

SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2377C/76A/V4/07 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:

For a Sampling hours:

Env. Cond.-Testing:

21/02/2024 22/02/2024 24/02/2024

26/02/2024-04/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Nidhi Shah

--- End of Report ---

AHMEDABAD

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/08

M/s Moil Limited

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

Reporting Date: 05/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2377C/76A/V4/08 Laboratory Representative

Ambient Air Nr Mine Magazine Ambient Temperature

Satisfactory

Sampling Start Date: 21/02/2024 Sampling End Date: 22/02/2024 Sample Receipt Date: 24/02/2024

Analysis start- End Date: 26/

Date: 26/02/2024-04/03/2024 urs: 24

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.20	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.19	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.14	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.66	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.82	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/08

M/s Moil Limited

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

Reporting Date: 05/03/2024



SAMPLE DETAILS

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

Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2377C/76A/V4/08 Laboratory Representative

Ambient Air Nr Mine Magazine Ambient Temperature

Ambient Temper Satisfactory Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 21/02/2024 22/02/2024 24/02/2024

26/02/2024-04/03/2024

24 25±5°C

Parameters	Results	Unit	Test Method	NAAQ Standards
Temperature	31	°C	GGMPL/SOP/MP/01	NS
Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS
	Temperature Relative Humidity Rainfall Lead	Temperature 31 Relative Humidity 56 Rainfall 0.00 Lead BQL (QL=0.001)	Temperature 31 °C Relative Humidity 56 % Rainfall 0.00 mm Lead BQL (QL=0.001) μg/m3	Temperature 31 °C GGMPL/SOP/MP/01 Relative Humidity 56 % GGMPL/SOP/MP/01 Rainfall 0.00 mm GGMPL/SOP/MP/01:2020 Lead BQL (QL=0.001) μg/m3 USEPA Method IO 3.4

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

Analyzed By Nidhi Shah Au

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2377C/76A/V4/09

M/s Moil Limited

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

Reporting Date: 05/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

21/02/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2377C/7 6A/V4/09A	Nr Mine Work Shop	Day Time	dB(A)Leq	IS 4758	64.3	-
2	Lab/PN/2377C/7 6A/V4/09B	Nr Haulage Road	Day Time	dB(A)Leq	IS 4758	62.2	
3	Lab/PN/2377C/7 6A/V4/09C	Nr Crushing & Screening	Day Time	dB(A)Leq	IS 4758	66.9	_
4	Lab/PN/2377C/7 6A/V4/09D	Nr Mine Magazine	Day Time	dB(A)Leq	IS 4758	63.4	

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

Analyzed By Nidhi Shah

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2378C/76B/V4/01

M/s Moil Limited

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

Reporting Date: 08/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2378C/76B/V4/01

Sampling Date: Sample Receipt Date: 21/02/2024

Sample Drawn By: Sample Type:

Laboratory Representative

Analysis Start Date:

24/02/2024 26/02/2024

Sample Description:

Drinking Water of Syndicate Colony

Analysis End Date: Sampling Method:

07/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition:

4.8 L Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.56	-	IS 3025-Part 11	6.5 -8.5	No relexation
2	Alkalinity as CaCO3	138.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	35.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.30	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.93	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	+	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	20.19	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	240.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	180.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

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HMEDABAD

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2378C/76B/V4/01

M/s Moil Limited

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

Reporting Date: 08/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity:

Lab/PN/2378C/76B/V4/01 Laboratory Representative

Water

Drinking Water of Syndicate Colony 4.8 L

Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

GGMPL/WI/27A

21/02/2024

24/02/2024

26/02/2024

07/03/2024

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 as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.22	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

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Report Number: GGMPL/PN/2378C/76B/V4/01A

M/s Moil Limited

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

Reporting Date: 08/03/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2378C/76B/V4/01

Sample Drawn By: Sample Type:

Laboratory Representative

Sample Description:

Drinking Water of Syndicate Colony

Sample Quantity:

Sample Condition:

4.8 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

21/02/2024

24/02/2024

26/02/2024 07/03/2024

GGMPL/WI/27A

Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Analyzed By Kinjal Damor

--- End of Report ---

Authorized Signatory Manish Kumawat

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2378C/76B/V4/02

M/s Moil Limited

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

Reporting Date: 08/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2378C/76B/V4/02

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

(GW) Pond Near Filter Plant

Sample Quantity:

3.5L

Sample Condition: Satisfactory Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date:

Sampling Method:

Packing:

21/02/2024

24/02/2024 26/02/2024 07/03/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.20	-2	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO3	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	34.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	51.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.33	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	18.71	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	27.32	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	260.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	180.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Kinjal Damor

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2378C/76B/V4/02

M/s Moil Limited

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

Lab/PN/2378C/76B/V4/02

Laboratory Representative

Reporting Date: 08/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Quantity:

Sample Description:

(GW) Pond Near Filter Plant 3.5L

Water

Sample Condition: Satisfactory Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

21/02/2024

24/02/2024 26/02/2024 07/03/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.03	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

Analyzed By Kinjal Damor

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Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2378C/76B/V4/02A

M/s Moil Limited

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

Reporting Date: 08/03/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2378C/76B/V4/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

(GW) Pond Near Filter Plant

Sample Quantity: Sample Condition: 3.5L

Satisfactory

Sampling Date:

ampling Date:

Sample Receipt Date:

Analysis Start Date:

24/02/2024 26/02/2024

21/02/2024

Analysis End Date: Sampling Method: 07/03/2024 GGMPL/WI/27A

Packing:

Sealed

Specification:

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

Al & PL As Per IS 10500.

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

Analyzed By Kinjal Damor

--- End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2378C/76B/V4/03

M/s Moil Limited

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

Reporting Date: 08/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2378C/76B/V4/03

Laboratory Representative

Ambient Air

Near Siren Room Dump Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 21/02/2024 22/02/2024

24/02/2024

26/02/2024-07/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.08	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.60	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.09	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.97	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	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 Kinjal Damor AHMEDABAD PV

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2378C/76B/V4/03

M/s Moil Limited

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

Reporting Date: 08/03/2024



TC-7073

SAMPLE DETAILS

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

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

Lab/PN/2378C/76B/V4/03 Laboratory Representative Ambient Air

Near Siren Room Dump Ambient Temperature Satisfactory

Sampling Start Date: 21/02/2024 Sampling End Date: 22/02/2024 Sample Receipt Date: 24/02/2024 Analysis start- End Date: 26/02/2024-07/03/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	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	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Kinjal Damor

Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2378C/76B/V4/04

M/s Moil Limited

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

Reporting Date: 08/03/2024



TC-7073

SAMPLE DETAILS

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

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2378C/76B/V4/04 Laboratory Representative

Ambient Air
Syndicate Colony
Ambient Temperature

Satisfactory

Sampling Start Date: 21/02/2024 Sampling End Date: 22/02/2024 Sample Receipt Date: 24/02/2024

Analysis start- End Date: 26/02/2024-07/03/2024Total Sampling hours: 24Env. Cond.-Testing: $25\pm5^{\circ}$ C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.93	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.06	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.99	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.97	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	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 Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2378C/76B/V4/04

M/s Moil Limited

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

Reporting Date: 08/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2378C/76B/V4/04 Laboratory Representative

Ambient Air Syndicate Colony Ambient Temperature

Satisfactory

21/02/2024 Sampling Start Date: Sampling End Date: 22/02/2024 Sample Receipt Date: 24/02/2024

Analysis start- End Date: Total Sampling hours:

26/02/2024-07/03/2024 24 Env. Cond.-Testing:

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12 7	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13 F	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14 F	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15 L	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16 V	Wind Speed	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

Kinjal Damor

Authorized Signatory Manish Kumawat

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Report Number: GGMPL/PN/2378C/76B/V4/05

M/s Moil Limited

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

Reporting Date: 08/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

21/02/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2378C/7 6B/V4/05A	Foot Wall Haulage Road	Day Time	dB(A)Leq	IS 4758	62.4	-
2	Lab/PN/2378C/7 6B/V4/05B	Near Siren Room Dump	Day Time	dB(A)Leq	IS 4758	67.6	-

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

Kinjal Damor

End of Report

Authorized Signatory Manish Kumawat

Page No: 1/1

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2379C/76C/V4/01

M/s Moil Limited

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

Reporting Date: 04/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Sample Quantity:

Sample Condition:

Lab/PN/2379C/76C/V4/01 Laboratory Representative

Mine Pit Discharge (GW) 4.8L

Satisfactory

Sampling Date:

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

Sampling Method:

Packing:

21/02/2024

24/02/2024 26/02/2024 02/03/2024

GGMPL/WI/27A Sealed

Specification:

Sr.No	Parameters Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.95	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	170.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	49.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.45	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	21.14	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part 5	Ayreeable	Ayreeable
9	Sulphate	44.94	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	300.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	185.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2379C/76C/V4/01

M/s Moil Limited

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

Reporting Date: 04/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Sample Quantity:

Sample Condition:

Lab/PN/2379C/76C/V4/01 Laboratory Representative

Water

Mine Pit Discharge (GW) 4.8L

Satisfactory

Sampling Date: Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

Sealed

21/02/2024

24/02/2024

26/02/2024

02/03/2024

GGMPL/WI/27A

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	5.50	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 Priyanka Shrimali End of Report

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2379C/76C/V4/01A

M/s Moil Limited

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

Reporting Date: 04/03/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2379C/76C/V4/01

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

Mine Pit Discharge (GW)

Sample Quantity: Sample Condition: 4.8L

Satisfactory

Sampling Date:

21/02/2024 Sample Receipt Date: 24/02/2024 Analysis Start Date: 26/02/2024

Analysis End Date: Sampling Method:

GGMPL/WI/27A

02/03/2024

Packing: Sealed

Specification:

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

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2379C/76C/V4/02

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2379C/76C/V4/02

Lau/Fi

Sample Drawn By: Sample Type: Laboratory Representative

Water

Sample Description:

Piezometer Borewell (GW)

Sample Quantity: Sample Condition: 4.8L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

21/02/2024

24/02/2024 26/02/2024

02/03/2024 GGMPL/WI/27A

Sealed

Specification:

					0	occincution.
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	8.40	<u> arr</u>	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	200.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	42.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	74.97	mg/L	IS 3025 -Part 32	250	1000
5	Colour	5	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.49	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	29.16	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable		IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	42.57	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	350.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	225.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	14.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By Priyanka Shrimali



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2379C/76C/V4/02

M/s Moil Limited

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

Reporting Date: 04/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description:

Sample Quantity: Sample Condition:

Lab/PN/2379C/76C/V4/02 Laboratory Representative

Water

Piezometer Borewell (GW) 4.8L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Sampling Method:

Analysis End Date:

Packing:

21/02/2024

24/02/2024 26/02/2024 02/03/2024

GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	4.5	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.50	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2379C/76C/V4/02A

M/s Moil Limited

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

Reporting Date: 04/03/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2379C/76C/V4/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

Piezometer Borewell (GW)

Sample Quantity:

4.8L Satisfactory

Sample Condition:

Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date:

Sampling Method: Packing:

21/02/2024

24/02/2024 26/02/2024

02/03/2024 GGMPL/WI/27A

Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Analyzed By Priyanka Shrimali

End of Report ---

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2379C/76C/V4/03

M/s Moil Limited

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

Reporting Date: 04/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type: Sample Description:

Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2379C/76C/V4/03

Laboratory Representative

Ambient Air

Near Haulage Road viewpoint Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Total Sampling hours:

Analysis start- End Date:

Env. Cond.-Testing:

22/02/2024 24/02/2024

21/02/2024

26/02/2024-02/03/2024 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.13	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	40.40	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.87	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.28	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.04	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.24	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali

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M/s Moil Limited

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

Reporting Date: 04/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:
Sample Drawn By:
Sample Type:

Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2379C/76C/V4/03 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: 21/02/2024 22/02/2024 24/02/2024

26/02/2024-02/03/2024

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali AHMEDABAD P

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/2379C/76C/V4/04

M/s Moil Limited

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

Reporting Date: 04/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description:

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2379C/76C/V4/04

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: 21/02/2024

22/02/2024 24/02/2024

26/02/2024-02/03/2024

24

25±5°C

r.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.38	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.75	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.68	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.87	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	17.09	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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Email Id: lab@gogreenmechanlsms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2379C/76C/V4/04

M/s Moil Limited

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

Reporting Date: 04/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2379C/76C/V4/04

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:

Total Sampling hours: Env. Cond.-Testing: 21/02/2024

22/02/2024 24/02/2024

26/02/2024-02/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

Mar

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2379C/76C/V4/05

M/s Moil Limited

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

Reporting Date: 04/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory representative

Sampling Date: Sample Description: 21/02/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2379C/7	Near Haulage Road View Point	Day Time	dB(A)Leq	IS 4758	64.2	-
2	Lab/PN/2379C/7 6C/V4/05B		Day Time	dB(A)Leq	IS 4758	60.4	

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

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9 * End of Report Authorized Signatory Manish Kumawat

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Mobile No: +91-7069072001

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2380C/76D/V4/01

M/s Moil Limited

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

Reporting Date: 04/03/2024

TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2380C/76D/V4/01

Sample Drawn By: Sample Type:

Laboratory Representative

Water

Sample Description:

Near Pit Office (DW)

Sample Quantity: Sample Condition: 4.8L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

21/02/2024

24/02/2024 26/02/2024

02/03/2024 GGMPL/WI/27A

Sealed

Specification:

					0,	pecineación.
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.65	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO3	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	40.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	54.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	BQL (QL=0.1)	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	20.41	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	- 0	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	33.56	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	285.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	185.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali



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Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2380C/76D/V4/01

M/s Moil Limited

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

Reporting Date: 04/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Lab/PN/2380C/76D/V4/01 Laboratory Representative

Sampling Date: Sample Receipt Date: 21/02/2024 24/02/2024

Sample Type: Sample Description:

Water Near Pit Office (DW)

Analysis Start Date: 26/02/2024 Analysis End Date: 02/03/2024

GGMPL/WI/27A

Sample Quantity: Sample Condition:

4.8L

Sampling Method: Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.5	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.50	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Priyanka Shrimali

*

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2380C/76D/V4/01A

M/s Moil Limited

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

Reporting Date: 04/03/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2380C/76D/V4/01

Sample Drawn By:

Laboratory Representative

Sample Type:

Sample Description:

Near Pit Office (DW)

Sample Quantity:

Sample Condition:

4.8L

Satisfactory

Sampling Date:

21/02/2024

Sample Receipt Date: Analysis Start Date:

24/02/2024 26/02/2024

Analysis End Date:

02/03/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

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

AL & PL As Per IS 10500

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

Analyzed By Priyanka Shrimali

- End of Report --

HMEDABAD

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2380C/76D/V4/02

M/s Moil Limited

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

Reporting Date: 04/03/2024



TC-7073

26/02/2024-02/03/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Nickel as Ni

Arsenic as As

11

Lab/PN/2380C/76D/V4/02

Laboratory Representative

Ambient Air

Ambient Temperature

Near Pit Office

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date:

Env. Cond.-Testing:

USEPA Method IO 3.4

USEPA Method IO 3.4

Total Sampling hours:

24

25±5°C

21/02/2024

22/02/2024

24/02/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.11	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.82	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.80	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.76	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.91	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.39	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4

ng/m3

ng/m3

BQL (QL=5)

BQL (QL=1)

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2380C/76D/V4/02

M/s Moil Limited

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

Reporting Date: 04/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2380C/76D/V4/02

Laboratory Representative

Ambient Air Near Pit Office

Ambient Temperature Satisfactory Sampling Start Date:

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

Total Sampling hours: Env. Cond.-Testing: 21/02/2024 22/02/2024 24/02/2024

26/02/2024-02/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	69	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Priyanka Shrimali

Authorized Signatory Manish Kumawat

Page No: 2/2

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2380C/76D/V4/03

M/s Moil Limited

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

Reporting Date: 04/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory representative

Sampling Date:

Sample Description:

21/02/2024

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2380C/7 6D/V4/03A	Near Pit Office	Day Time	dB(A)Leq	IS 4758	63.9	-
	00/14/03/						

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

Analyzed By Priyanka Shrimali Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2381C/76E/V4/01

M/s Moil Limited

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

Reporting Date: 08/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2381C/76E/V4/01

Sample Drawn By: Sample Type:

Laboratory Representative

Water

4.8 L

Sample Description:

DW at Railway Siding office

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

21/02/2024 Sample Receipt Date: 24/02/2024

Analysis Start Date: Analysis End Date:

26/02/2024 07/03/2024

Sampling Method:

GGMPL/WI/27A

Packing:

Sealed

Specification:

					9	pecineation.
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.11	=	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	85.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	34.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.33	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	7.29	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	20.19	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	162.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	112.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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





Authorized Signatory Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2381C/76E/V4/01

M/s Moil Limited

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

Reporting Date: 08/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By:

Lab/PN/2381C/76E/V4/01

Laboratory Representative

Water

Sample Type: Sample Description: Sample Quantity:

Sample Condition:

DW at Railway Siding office

4.8 L

Satisfactory

Sampling Date:

Sample Receipt Date: Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

24/02/2024 26/02/2024

21/02/2024

07/03/2024 GGMPL/WI/27A

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.12	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

HMEDABAI End of Report ---

HAN

Authorized Signatory Manish Kumawat

Page No: 2/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2381C/76E/V4/01A

M/s Moil Limited

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

Reporting Date: 08/03/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2381C/76E/V4/01

Sampling Date: 21/02

21/02/2024 24/02/2024

Sample Drawn By: Sample Type: Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

26/02/2024 07/03/2024

Sample Description:

DW at Railway Siding office

Analysis End Date: Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition: 4.8 L Satisfactory

Packing:

Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah AHMEDABAD &

Authorized Signatory Manish Kumawat

Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2381C/76E/V4/02

M/s Moil Limited

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

Reporting Date: 08/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Lab/PN/2381C/76E/V4/02

Sampling Date:

21/02/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

24/02/2024

Sample Type:

Analysis Start Date:

26/02/2024

Sample Description:

Borewell Water near Balapur Hamesha Camp Analysis End Date:

07/03/2024

Sample Quantity:

(GW) 4.8 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

				2		
					S	Specification
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.41	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	160.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	58.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.66	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	21.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	_	IS 3025 Part-5	Agreeable	e Agreeable
9	Sulphate	51.28	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	334.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	192.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL IS 10500.

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





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Page No: 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2381C/76E/V4/02

M/s Moil Limited

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

Reporting Date: 08/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2381C/76E/V4/02

Sampling Date:

21/02/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

24/02/2024

Sample Type:

Analysis Start Date:

26/02/2024

Sample Description:

Borewell Water near Balapur Hamesha Camp Analysis End Date:

07/03/2024

(GW)

4.8 L

Sampling Method:

GGMPL/WI/27A

Sample Quantity: Sample Condition:

Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.88	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL IS 10500.

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



--- End of Report

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2381C/76E/V4/02A

M/s Moil Limited

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

Reporting Date: 08/03/2024

SAMPLE DETAILS

Lab ID:

Lab/PN/2381C/76E/V4/02

Sampling Date:

21/02/2024

Sample Drawn By:

Laboratory Representative

Sample Receipt Date:

24/02/2024

Sample Type:

Water

Analysis Start Date:

26/02/2024

Sample Description:

Borewell Water near Balapur Hamesha Camp Analysis End Date:

07/03/2024

Sample Quantity:

(GW) 4.8 L

Sampling Method:

GGMPL/WI/27A

Sample Condition:

Satisfactory

Packing:

Sealed

Sr.No Parameters* Results Unit Test Method

Total Coliform (MPN/100ml)

Absent

Absent

MPN/100ml IS 1622

Absent

Specification:

PL

E.Coli (MPN/100ml)

Absent

MPN/100ml IS 1622

Absent Absent

AL & PL IS 10500.

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

Analyzed By Nidhi Shah

Authorized Signatory Manish Kumawat

Page No: 1/1

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2381C/76E/V4/03

M/s Moil Limited

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

Reporting Date: 08/03/2024



TC-7073

21/02/2024

22/02/2024

24/02/2024

SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2381C/76E/V4/03

Laboratory Representative

Ambient Air

Near Railway Siding Office Ambient Temperature

Satisfactory

Sampling Start Date:

Sampling End Date: Sample Receipt Date:

Analysis start- End Date: Total Sampling hour

26/02/2024-07/03/2024

rotal Sampling hours:	24
Env. CondTesting:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.51	μg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.78	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.09	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.60	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.39	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

*

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Page No: 1/2

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Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2381C/76E/V4/03

M/s Moil Limited

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

Reporting Date: 08/03/2024



TC-7073

SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type: Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2381C/76E/V4/03 Laboratory Representative Ambient Air

Near Railway Siding Office Ambient Temperature Satisfactory

Sampling Start Date: 21/02/2024 Sampling End Date: 22/02/2024 Sample Receipt Date: 24/02/2024 Analysis start- End Date: 26/02/2024-07/03/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

End of Report

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2381C/76E/V4/04

M/s Moil Limited

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

Reporting Date: 08/03/2024



SAMPLE DETAILS

Lab ID:

Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling:

Env. Cond.-Sample Receipt:

Lab/PN/2381C/76E/V4/04 Laboratory Representative

Ambient Air Near Loading Area

Ambient Temperature Satisfactory Sampling Start Date: Sampling End Date:

Sample Receipt Date: Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 21/02/2024 22/02/2024 24/02/2024

26/02/2024-07/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.50	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.85	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.25	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.28	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.82	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	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





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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2381C/76E/V4/04

M/s Moil Limited

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

Reporting Date: 08/03/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2381C/76E/V4/04 Laboratory Representative

Ambient Air Near Loading Area Ambient Temperature

Satisfactory

Sampling Start Date: 21/02/2024 Sampling End Date: 22/02/2024 Sample Receipt Date: 24/02/2024

Analysis start- End Date: Total Sampling hours:

26/02/2024-07/03/2024 24

Env. Cond.-Testing: 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.3	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Nidhi Shah AHMEDABAD V

Authorized Signatory Manish Kumawat

Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2381C/76E/V4/05

M/s Moil Limited

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

Reporting Date: 08/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

21/02/2024

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2381C/7 6E/V4/05A	Nr Railway Siding Office	Day Time	dB(A)Leq	IS 4758	66.5	P2
2	Lab/PN/2381C/7 6E/V4/05B	Nr Loading Area	Day Time	dB(A)Leq	IS 4758	68.3	

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





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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/01

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:

Lab/PN/2389C/76F/V4/01

Sample Drawn By: Sample Type:

Laboratory Representative

Waste Water

Sample Description: Sample Quantity:

Boiler Water (Inlet) (WW)

Sample Condition:

3.5L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date: Sampling Method:

Packing:

22/02/2024

25/02/2024 26/02/2024 06/03/2024

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.82		IS 3025- Part 11	
2	Total Suspended Solids	16.00	mg/L	APHA 23rd Edii 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	30	mg/L	IS 3025- Part 44	
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	1-

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

Analyzed By Nidhi Shah

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/02

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:

Lab/PN/2389C/76F/V4/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

RO Water Nr. Admin Office (DW)

Sample Quantity: Sample Condition: 4.8 L Satisfactory Sampling Date:

Sample Receipt Date:

Analysis Start Date:

Analysis End Date: Sampling Method:

Packing:

22/02/2024

25/02/2024 26/02/2024

06/03/2024 GGMPL/WI/27A

Sealed

Specification:

					3	pecification.
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.47	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO3	116.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	39.27	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	39.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.17	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	3.88	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	16.73	mg/L	APHA 23rd Edn 4500 SO4 E	200	400
10	Total Dissolved Solids	188.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO3	114.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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







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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/02

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/2389C/76F/V4/02

Sampling Date:

22/02/2024

Sample Drawn By: Sample Type:

Laboratory Representative Water

Sample Receipt Date: Analysis Start Date:

25/02/2024 26/02/2024

Sample Description:

RO Water Nr. Admin Office (DW)

Analysis End Date: Sampling Method:

06/03/2024 GGMPL/WI/27A

Sample Quantity: Sample Condition: 4.8 L Satisfactory

Packing:

Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	1.64	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

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Page No: 2/2

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Report Number: GGMPL/PN/2389C/76F/V4/02A

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:

Lab/PN/2389C/76F/V4/02

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

RO Water Nr. Admin Office (DW)

Sample Quantity: Sample Condition: 4.8 L

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

Packing:

22/02/2024

25/02/2024 26/02/2024

06/03/2024 GGMPL/WI/27A

Sealed

Specification:

Reporting Date: 07/03/2024

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

AL & PL As Per IS 10500.

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

Analyzed By Nidhi Shah

* C --- End of Report ---

AHMEDABAD

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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/03

M/s Moil Limited

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

(M.S)



SAMPLE DETAILS

Lab ID:

Lab/PN/2389C/76F/V4/03

Laboratory Representative

Waste Water

Sample Drawn By: Sample Type: Sample Description:

Drainage Water (Near Admin Office) (WW)

3.5 L

Sample Quantity: Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method: Packing: 22/02/2024 25/02/2024

26/02/2024 26/02/2024 06/03/2024

GGMPL/WI/27A

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.58	N=	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	110.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	37	mg/L	IS 3025- Part 44	
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	_

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





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Page No: 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/04

M/s Moil Limited

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

Reporting Date: 07/03/2024



SAMPLE DETAILS

Lab ID:

Lab/PN/2389C/76F/V4/04

Sample Drawn By:

Laboratory Representative

Sample Type:

Water

Sample Description:

ETP Inlet (WW)

Sample Quantity:

3.5 L

Sample Condition:

Satisfactory

Sampling Date:

Sample Receipt Date:

Analysis Start Date: Analysis End Date:

Sampling Method:

25/02/2024 26/02/2024

22/02/2024

06/03/2024 GGMPL/WI/27A

Packing:

Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.64	-	IS 3025- Part 11	-
2	Total Suspended Solids	21.00	mg/L	APHA 23rd Edn 2540 D	
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	
5	Dissolved Oxygen	4.90	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	28	mg/L	IS 3025- Part 44	
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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



AHMEDABAD End of Report --

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/05

M/s Moil Limited

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

(M.S)

Reporting Date: 07/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:Lab/PN/2389C/76F/V4/05Sampling Start Date:22/02/2024Sample Drawn By:Laboratory RepresentativeSampling End Date:23/02/2023Sample Type:Ambient AirSample Receipt Date:25/02/2024

Sample Description: Near Admin Office Analysis start- End Date: 26/02/2024-06/03/2024
Env. Cond.-Sampling: Ambient Temperature Total Sampling hours: 24

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.55	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.51	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.47	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.32	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.54	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah AHMEDABAD P

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/05

M/s Moil Limited

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

(M.S)

Reporting Date: 07/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2389C/76F/V4/05 Laboratory Representative Ambient Air

Near Admin Office Ambient Temperature

Satisfactory

Sampling Start Date: 22/02/2024 Sampling End Date: 23/02/2023 Sample Receipt Date: 25/02/2024

Analysis start- End Date: Total Sampling hours:

Env. Cond.-Testing: 25±5°C

26/02/2024-06/03/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Nidhi Shah

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/06

M/s Moil Limited

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

(M.S)

Reporting Date: 07/03/2024



TC-7073

SAMPLE DETAILS

Lab ID:

Sample Drawn By:

Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2389C/76F/V4/06

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:

23/02/2024 25/02/2024

22/02/2024

26/02/2024-06/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.83	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)	12.54	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.04	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.82	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	μg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/06

M/s Moil Limited

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

(M.S)

Reporting Date: 07/03/2024



SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2389C/76F/V4/06 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:

22/02/2024 23/02/2024 25/02/2024 26/02/2024-06/03/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By Nidhi Shah

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Page No: 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/07

M/s Moil Limited

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

(M.S)

Reporting Date: 07/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2389C/76F/V4/07 Laboratory Representative

Ambient Air

Near Shift incharge Room Ambient Temperature

Satisfactory

Sampling Start Date: Sampling End Date:

Sample Receipt Date:
Analysis start- End Date:

Total Sampling hours: Env. Cond.-Testing: 22/02/2024 23/02/2024 25/02/2024

26/02/2024-06/03/2024

24 25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.43	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.07	μg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.22	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.52	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.24	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By Nidhi Shah Authorized Signatory Manish Kumawat

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M/s Moil Limited

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

(M.S)

Reporting Date: 07/03/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sample Receipt:

Lab/PN/2389C/76F/V4/07 Laboratory Representative Ambient Air Near Shift incharge Room

Ambient Temperature Satisfactory

Sampling Start Date: 22/02/2024 Sampling End Date: 23/02/2024 Sample Receipt Date: 25/02/2024 Analysis start- End Date: 26/02/2024-06/03/2024

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

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	31	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By

09 * --- End of Report ---

AHMEDABAD

Authorized Signatory Manish Kumawat

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Mobile No: +91-7069072001

Email Id: lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/08

M/s Moil Limited

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

(M.S)

Reporting Date: 07/03/2024



TC-7073

SAMPLE DETAILS

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

Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2389C/76F/V4/08 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:

23/02/2024 25/02/2024 26/02/2024-0

22/02/2024

26/02/2024-06/03/2024 24

25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.78	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)	11.54	μg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.46	μg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.66	μg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	17.09	μg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	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

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Analyzed By Nidhi Shah



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M/s Moil Limited

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

(M.S)

Reporting Date: 07/03/2024



SAMPLE DETAILS

Lab ID: Sample Drawn By: Sample Type:

Sample Description: Env. Cond.-Sampling: Env. Cond.-Sample Receipt: Lab/PN/2389C/76F/V4/08 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:

25/02/2024 26/02/2024-06/03/2024

25±5°C

22/02/2024

23/02/2024

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.00	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	μg/m3	USEPA Method IO 3.4	1
16	Wind Speed	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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Analyzed By Nidhi Shah

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Reporting Date: 07/03/2024

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/09

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/2389C/76F/V4/09 Sampling Date: 22/02/2024
Sample Drawn By: Laboratory Representative Sample Receipt Date: 25/02/2024

Sample Type: Stack Analysis start- End Date: 26/02/2024-06/03/2024

Stack Height & Dia (m):30 & 0.59Stack Temperature (°C):130Stack Attached To:CFB BoilerStack gas velocity (m/sec):11.01Fuel Used:-Volume of Air Sampled in NM3:0.8229

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	21.47	ppm	IS 11255- Part 7	-
2	Particulate Matter	38.64	mg/Nm³	IS 11255- Part 1	
3	Sulphur Dioxides	8.77	ppm	IS 11255- Part 2	н

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/2389C/76F/V4/10

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

Reporting Date: 07/03/2024



SAMPLE DETAILS

Sampling Instrument: Sound Level Meter

Sample By

Laboratory Representative

Sampling Date:

Sample Description:

22/02/2024

Source Noise

r.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2389C/7 6F/V4/10A	Nr Admin Office	Day Time	dB(A)Leq	IS 4758	62.1	-
2	Lab/PN/2389C/7 6F/V4/10B	Nr Infront of MCC Room	Day Time	dB(A)Leq	IS 4758	64.3	
3	Lab/PN/2389C/7 6F/V4/10C	Nr Shift Incharge Room	Day Time	dB(A)Leq	IS 4758	62.2	
4	Lab/PN/2389C/7 6F/V4/10D	Nr Plant Workshop	Day Time	dB(A)Leq	IS 4758	65.6	

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Analyzed By Nidhi Shah

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