

CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/03/2024

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/V4/01	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:	Nr Workshop Borewell (GW)	Analysis End Date:	04/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

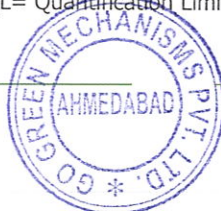
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.48	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO ₃	146.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	48.89	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	58.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 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 SO ₄ E	200	400
10	Total Dissolved Solids	290.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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

Nidhi

Analyzed By
Nidhi Shah



Manish

Authorized Signatory
Manish Kumawat

Page No : 1/2

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2377C/76A/V4/01	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:	Nr Workshop Borewell (GW)	Analysis End Date:	04/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

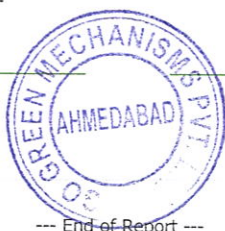
Specification:

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

Nidhi
Analyzed By
Nidhi Shah



Manish
Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/03/2024

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/V4/01	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:	Nr Workshop Borewell (GW)	Analysis End Date:	04/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	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

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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/V4/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Old Pit Reservoir (GW)
Sample Quantity: 4.8 L
Sample Condition: Satisfactory

Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 04/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

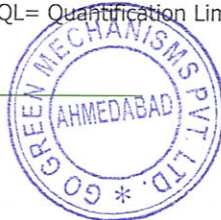
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.77	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO ₃	162.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	47.29	mg/L	APHA 23rd Edn 3500 Ca B	75	100
4	Chloride	59.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 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 SO ₄ E	200	400
10	Total Dissolved Solids	288.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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.

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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/V4/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Old Pit Reservoir (GW)
Sample Quantity: 4.8 L
Sample Condition: Satisfactory


Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 04/03/2024
Sampling Method: GGMP/L/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

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Page No : 2/2

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Reporting Date : 05/03/2024

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 Reservoir (GW)
Sample Quantity: 4.8 L
Sample Condition: Satisfactory

Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 04/03/2024
Sampling Method: GGMP/L/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

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Page No : 1/1

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Reporting Date : 05/03/2024

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/V4/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Kurmuda Plant (GW)
Sample Quantity: 4.8 L
Sample Condition: Satisfactory


Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 04/03/2024
Sampling Method: GGMPL/WI/27A
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 CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	244.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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

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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



TC-7073

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: 4.8 L
Sample Condition: Satisfactory

Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 04/03/2024
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.

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

SAMPLE DETAILS


Lab ID:	Lab/PN/2377C/76A/V4/03	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:	Kurmuda Plant (GW)	Analysis End Date:	04/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	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



--- End of Report ---


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Page No : 1/1

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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



SAMPLE DETAILS

Lab ID: Lab/PN/2377C/76A/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Pond Nr Shiv Mandir (GW)
Sample Quantity: 4.8 L
Sample Condition: Satisfactory

Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 04/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	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 CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	238.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/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



SAMPLE DETAILS

Lab ID: Lab/PN/2377C/76A/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Pond Nr Shiv Mandir (GW)
Sample Quantity: 4.8 L
Sample Condition: Satisfactory

Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 04/03/2024
Sampling Method: GGMP/L/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

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Analyzed By
Nidhi Shah



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/2377C/76A/V4/04A

Reporting Date : 05/03/2024

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/V4/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Pond Nr Shiv Mandir (GW)
Sample Quantity: 4.8 L
Sample Condition: Satisfactory


Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 04/03/2024
Sampling Method: GGMP/L/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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/03/2024

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/V4/05	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Nr Mine Workshop	Analysis start- End Date:	26/02/2024-04/03/2024
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)	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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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

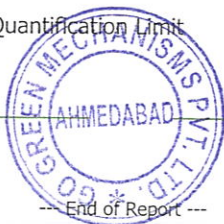
Lab ID:	Lab/PN/2377C/76A/V4/05	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Nr Mine Workshop	Analysis start- End Date:	26/02/2024-04/03/2024
Env. Cond.-Sampling:	Ambient 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
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 Limit



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/03/2024

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/V4/06	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Nr Railway Station	Analysis start- End Date:	26/02/2024-04/03/2024
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)	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

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/03/2024

M/s Moil Limited

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




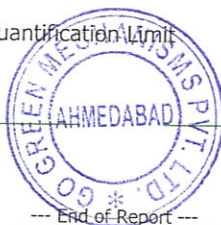
SAMPLE DETAILS

Lab ID:	Lab/PN/2377C/76A/V4/06	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Nr Railway Station	Analysis start- End Date:	26/02/2024-04/03/2024
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
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


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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

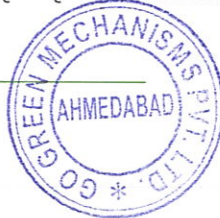
Lab ID:	Lab/PN/2377C/76A/V4/07	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Kurmuda Grampanchayat Office	Analysis start- End Date:	26/02/2024-04/03/2024
Env. Cond.-Sampling:	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)	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



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/03/2024

M/s Moil Limited

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



TC-7073

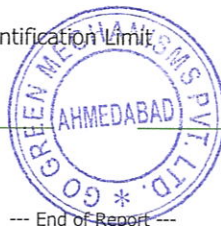
SAMPLE DETAILS

Lab ID:	Lab/PN/2377C/76A/V4/07	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Kurmuda Grampanchayat Office	Analysis start- End Date:	26/02/2024-04/03/2024
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
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
Nidhi Shah



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Manish Kumawat

--- End of Report ---

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/03/2024

M/s Moil Limited

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



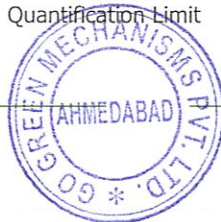
SAMPLE DETAILS

Lab ID:	Lab/PN/2377C/76A/V4/08	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Nr Mine Magazine	Analysis start- End Date:	26/02/2024-04/03/2024
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)	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

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/03/2024

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/V4/08	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Nr Mine Magazine	Analysis start- End Date:	26/02/2024-04/03/2024
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
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	6.1	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Page No : 2/2

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

21/02/2024


Sample By Laboratory Representative

Sample Description:

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 Limit


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CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/2378C/76B/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Drinking Water of Syndicate Colony
Sample Quantity: 4.8 L
Sample Condition: Satisfactory

Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 07/03/2024
Sampling Method: GGMPL/WI/27A
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 relaxation
2	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	240.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2378C/76B/V4/01	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:	Drinking Water of Syndicate Colony	Analysis End Date:	07/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

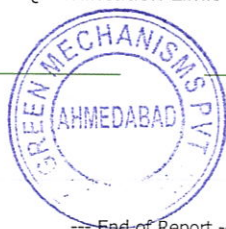
Specification:

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



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

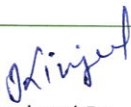
Lab ID:	Lab/PN/2378C/76B/V4/01	Sampling Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Drinking Water of Syndicate Colony	Analysis End Date:	07/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	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


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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)

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: 3.5L
Sample Condition: Satisfactory

Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 07/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.20	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	260.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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)

Reporting Date : 08/03/2024



TC-7073

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: 3.5L
Sample Condition: Satisfactory

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/2378C/76B/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:	(GW) Pond Near Filter Plant	Analysis End Date:	07/03/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/03/2024

M/s Moil Limited

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



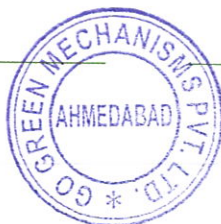
SAMPLE DETAILS

Lab ID:	Lab/PN/2378C/76B/V4/03	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Siren Room Dump	Analysis start- End Date:	26/02/2024-07/03/2024
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)	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2378C/76B/V4/03	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Siren Room Dump	Analysis start- End Date:	26/02/2024-07/03/2024
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
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

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Head Office & Lab

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2378C/76B/V4/04	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Syndicate Colony	Analysis start- End Date:	26/02/2024-07/03/2024
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)	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/2378C/76B/V4/04	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Syndicate Colony	Analysis start- End Date:	26/02/2024-07/03/2024
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
12	Temperature	32	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	60	%	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	6.2	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

21/02/2024

Sample By Laboratory Representative

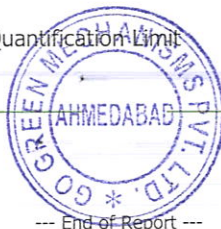
Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2378C/76B/V4/05A	Foot Wall Haulage Road	Day Time	dB(A)Leq	IS 4758	62.4	-
2	Lab/PN/2378C/76B/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

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 04/03/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/2379C/76C/V4/01	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:	Mine Pit Discharge (GW)	Analysis End Date:	02/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	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 CaCO ₃	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	Agreeable	Agreeable
9	Sulphate	44.94	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	300.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 04/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/2379C/76C/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Mine Pit Discharge (GW)
Sample Quantity: 4.8L
Sample Condition: Satisfactory

Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 02/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

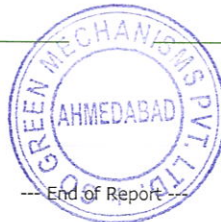
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
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




Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 04/03/2024

M/s Moil Limited

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

SAMPLE DETAILS


Lab ID:	Lab/PN/2379C/76C/V4/01	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:	Mine Pit Discharge (GW)	Analysis End Date:	02/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	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
Priyanka Shrimali




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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 04/03/2024

M/s Moil Limited

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



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
Sample Condition: Satisfactory

Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 02/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

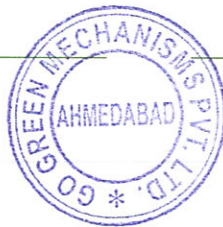
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	8.40	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	350.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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.

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 04/03/2024

M/s Moil Limited

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



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
Sample Condition: Satisfactory


Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 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
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.

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


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CERTIFICATE OF ANALYSIS

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

Reporting Date : 04/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/2379C/76C/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:	Piezometer Borewell (GW)	Analysis End Date:	02/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	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


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Reporting Date: 04/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/2379C/76C/V4/03	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Haulage Road viewpoint	Analysis start- End Date:	26/02/2024-02/03/2024
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)	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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 04/03/2024

M/s Moil Limited

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




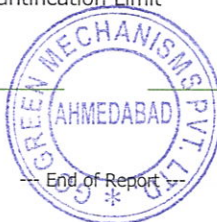
SAMPLE DETAILS

Lab ID:	Lab/PN/2379C/76C/V4/03	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Haulage Road viewpoint	Analysis start- End Date:	26/02/2024-02/03/2024
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
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

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 04/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/2379C/76C/V4/04	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Mine Hospital	Analysis start- End Date:	26/02/2024-02/03/2024
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)	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

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 04/03/2024

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/V4/04	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Mine Hospital	Analysis start- End Date:	26/02/2024-02/03/2024
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
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




Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 04/03/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date: 21/02/2024

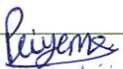
Sample By Laboratory representative

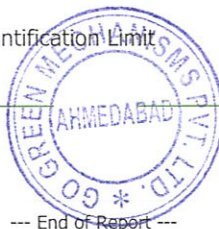
Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2379C/76C/V4/05A	Near Haulage Road View Point	Day Time	dB(A)Leq	IS 4758	64.2	-
2	Lab/PN/2379C/76C/V4/05B	Near Mine Hospital	Day Time	dB(A)Leq	IS 4758	60.4	-

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


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Priyanka Shrimali




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CERTIFICATE OF ANALYSIS

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

Reporting Date : 04/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/2380C/76D/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Near Pit Office (DW)
Sample Quantity: 4.8L
Sample Condition: Satisfactory


Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 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	pH at 25 °C	7.65	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO ₃	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	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	33.56	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	285.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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


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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 04/03/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/2380C/76D/V4/01	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:	Near Pit Office (DW)	Analysis End Date:	02/03/2024
Sample Quantity:	4.8L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	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


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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 04/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID: Lab/PN/2380C/76D/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Near Pit Office (DW)
Sample Quantity: 4.8L
Sample Condition: Satisfactory

Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 02/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

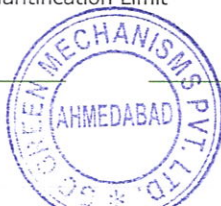
Specification:

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
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--- End of Report ---


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 04/03/2024

M/s Moil Limited

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



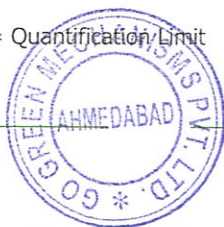
SAMPLE DETAILS

Lab ID:	Lab/PN/2380C/76D/V4/02	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	26/02/2024-02/03/2024
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)	64.11	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
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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Manish Kumawat

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

Reporting Date: 04/03/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/2380C/76D/V4/02	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	26/02/2024-02/03/2024
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
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


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Head Office & Lab

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date: 04/03/2024

M/s Moil Limited

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




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/2380C/7 6D/V4/03A	Near Pit Office	Day Time	dB(A)Leq	IS 4758	63.9	-

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


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CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/2381C/76E/V4/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: DW at Railway Siding office
Sample Quantity: 4.8 L
Sample Condition: Satisfactory

Sampling Date: 21/02/2024
Sample Receipt Date: 24/02/2024
Analysis Start Date: 26/02/2024
Analysis End Date: 07/03/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

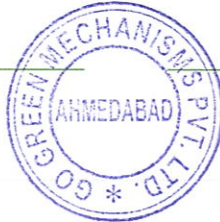
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.11	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO ₃	85.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	34.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 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 SO ₄ E	200	400
10	Total Dissolved Solids	162.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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



Analyzed By
Nidhi Shah



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Manish Kumawat

Page No : 1/2

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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	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:	DW at Railway Siding office	Analysis End Date:	07/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

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--- End of Report ---

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Page No : 2/2

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Head Office & Lab

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/2381C/76E/V4/01	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:	DW at Railway Siding office	Analysis End Date:	07/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	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

Nidhi

Analyzed By
Nidhi Shah



--- End of Report ---

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/03/2024

M/s Moil Limited

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



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 (GW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

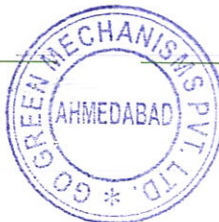
					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.41	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO ₃	160.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	58.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	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	Agreeable
9	Sulphate	51.28	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	334.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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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Head Office & Lab

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/03/2024

M/s Moil Limited

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



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 (GW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

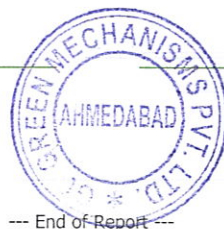
Specification:

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


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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/03/2024

M/s Moil Limited

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

SAMPLE DETAILS

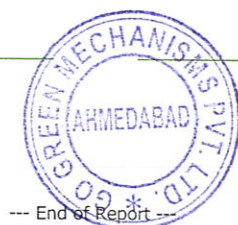
Lab ID:	Lab/PN/2381C/76E/V4/02	Sampling Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	Borewell Water near Balapur Hamesha Camp (GW)	Analysis End Date:	07/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	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 IS 10500.

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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/03/2024

M/s Moil Limited

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



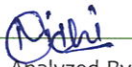
TC-7073

SAMPLE DETAILS

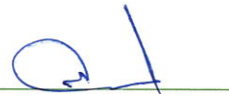
Lab ID:	Lab/PN/2381C/76E/V4/03	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Railway Siding Office	Analysis start- End Date:	26/02/2024-07/03/2024
Env. Cond.-Sampling:	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)	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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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/03/2024

M/s Moil Limited

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




TC-7073

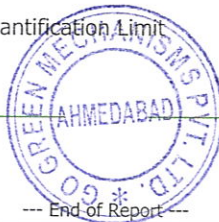
SAMPLE DETAILS

Lab ID:	Lab/PN/2381C/76E/V4/03	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Railway Siding Office	Analysis start- End Date:	26/02/2024-07/03/2024
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
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 Limit


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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/03/2024

M/s Moil Limited

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

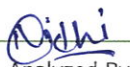


SAMPLE DETAILS

Lab ID:	Lab/PN/2381C/76E/V4/04	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Loading Area	Analysis start- End Date:	26/02/2024-07/03/2024
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)	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


Analyzed By
Nidhi Shah




Authorized Signatory
Manish Kumawat

Page No : 1/2

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Reporting Date: 08/03/2024

M/s Moil Limited

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




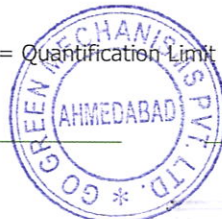
SAMPLE DETAILS

Lab ID:	Lab/PN/2381C/76E/V4/04	Sampling Start Date:	21/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	24/02/2024
Sample Description:	Near Loading Area	Analysis start- End Date:	26/02/2024-07/03/2024
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
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 Limit


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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Laboratory Representative

Sampling Date:


21/02/2024

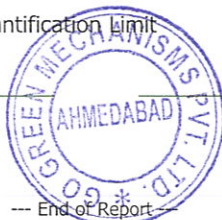
Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/2381C/76E/V4/05A	Nr Railway Siding Office	Day Time	dB(A)Leq	IS 4758	66.5	-
2	Lab/PN/2381C/76E/V4/05B	Nr Loading Area	Day Time	dB(A)Leq	IS 4758	68.3	-

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Head Office & Lab

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/2389C/76F/V4/01

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:	Lab/PN/2389C/76F/V4/01	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Waste Water	Analysis Start Date:	26/02/2024
Sample Description:	Boiler Water (Inlet) (WW)	Analysis End Date:	06/03/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	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 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	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °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	-

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

Nidhi Shah
Analyzed By
Nidhi Shah



Manish Kumawat
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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/03/2024

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:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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 CaCO ₃	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 SO ₄ E	200	400
10	Total Dissolved Solids	188.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	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

Nidhi

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:	Lab/PN/2389C/76F/V4/02	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500.

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/03/2024

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:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	06/03/2024
Sample Quantity:	4.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

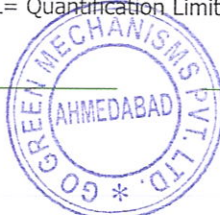
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi

Analyzed By
Nidhi Shah



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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/03/2024

M/s Moil Limited

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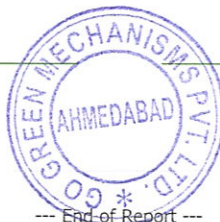
SAMPLE DETAILS

Lab ID:	Lab/PN/2389C/76F/V4/03	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Waste Water	Analysis Start Date:	26/02/2024
Sample Description:	Drainage Water (Near Admin Office) (WW)	Analysis End Date:	06/03/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.58	-	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 °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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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/03/2024

M/s Moil Limited

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



TC-7073

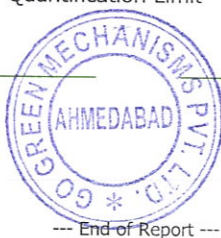
SAMPLE DETAILS

Lab ID:	Lab/PN/2389C/76F/V4/04	Sampling Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/02/2024
Sample Type:	Water	Analysis Start Date:	26/02/2024
Sample Description:	ETP Inlet (WW)	Analysis End Date:	06/03/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.64	-	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 °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

Nidhi Shah
Analyzed By
Nidhi Shah



--- End of Report ---

Manish Kumawat
Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/03/2024

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/V4/05	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2023
Sample Type:	Ambient Air	Sample 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.-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




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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/03/2024

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/V4/05	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2023
Sample Type:	Ambient Air	Sample 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.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	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

Nidhi

Analyzed By
Nidhi Shah



--- End of Report ---

Manish

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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/03/2024

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/V4/06	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near infront of MCC Room	Analysis start- End Date:	26/02/2024-06/03/2024
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)	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


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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/03/2024

M/s Moil Limited

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




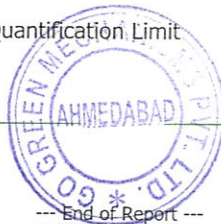
SAMPLE DETAILS

Lab ID:	Lab/PN/2389C/76F/V4/06	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near infront of MCC Room	Analysis start- End Date:	26/02/2024-06/03/2024
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
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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/03/2024

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/V4/07	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Shift incharge Room	Analysis start- End Date:	26/02/2024-06/03/2024
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)	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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/03/2024

M/s Moil Limited

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




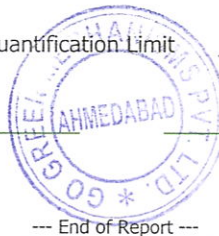
SAMPLE DETAILS

Lab ID:	Lab/PN/2389C/76F/V4/07	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Shift incharge Room	Analysis start- End Date:	26/02/2024-06/03/2024
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
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


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Nidhi Shah




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/03/2024

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/V4/08	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Mine Workshop	Analysis start- End Date:	26/02/2024-06/03/2024
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)	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

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

Analyzed By
Nidhi Shah



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/03/2024

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




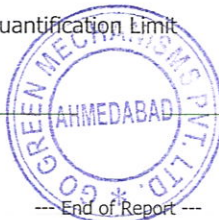
SAMPLE DETAILS

Lab ID:	Lab/PN/2389C/76F/V4/08	Sampling Start Date:	22/02/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/02/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/02/2024
Sample Description:	Near Mine Workshop	Analysis start- End Date:	26/02/2024-06/03/2024
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
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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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/03/2024

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/V4/09	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 & 0.59	Stack Temperature (°C):	130
Stack Attached To:	CFB Boiler	Stack gas velocity (m/sec):	11.01
Fuel 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/Nm ³	IS 11255- Part 1	-
3	Sulphur Dioxides	8.77	ppm	IS 11255- Part 2	-

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/03/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

22/02/2024


Sample By Laboratory Representative

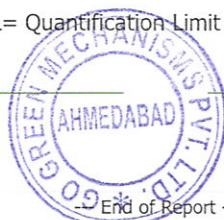
Sample Description:

Source Noise

Sr.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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Page No : 1/1

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