

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/1643C/76A/V3/01

Reporting Date : 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/01	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	Nr Workshop Borewell (GW)	Analysis End Date:	01/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500.

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

Nidhi

Analyzed By
Nidhi Shah



P.B. Patel

Authorized Signatory
Payal Patel

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SAMPLE DETAILS

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Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	Nr Workshop Borewell (GW)	Analysis End Date:	01/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.63	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

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Nidhi Shah



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P. B. Patel

Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 02/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/01	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	Nr Workshop Borewell (GW)	Analysis End Date:	01/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

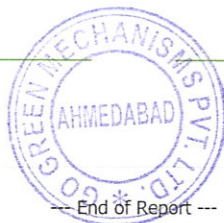
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/02	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	Old Pit Reservoir (GW)	Analysis End Date:	01/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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

Reporting Date : 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/1643C/76A/V3/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Old Pit Reservoir (GW)
Sample Quantity: 3.5L
Sample Condition: Satisfactory

Sampling Date: 21/11/2023
Sample Receipt Date: 24/11/2023
Analysis Start Date: 25/11/2023
Analysis End Date: 01/12/2023
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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Reporting Date : 02/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/02	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	Old Pit Reservoir (GW)	Analysis End Date:	01/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

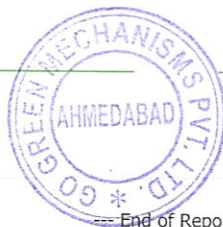
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500

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Reporting Date : 02/12/2023

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/03	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	Kurmuda Plant (GW)	Analysis End Date:	01/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

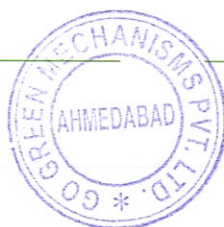
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	6.9	-	IS 3025-Part 11	6.5 - 8.5	No Relaxation
2	Alkalinity as CaCO ₃	136.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	38.47	mg/L	APHA 23rd Edn 3500 Ca B	75	100
4	Chloride	45.88	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU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

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Reporting Date : 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/1643C/76A/V3/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Kurmuda Plant (GW)
Sample Quantity: 3.5L
Sample Condition: Satisfactory

Sampling Date: 21/11/2023
Sample Receipt Date: 24/11/2023
Analysis Start Date: 25/11/2023
Analysis End Date: 01/12/2023
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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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/1643C/76A/V3/03A

Reporting Date : 02/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID: Lab/PN/1643C/76A/V3/03
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Kurmuda Plant (GW)
Sample Quantity: 3.5L
Sample Condition: Satisfactory

Sampling Date: 21/11/2023
Sample Receipt Date: 24/11/2023
Analysis Start Date: 25/11/2023
Analysis End Date: 01/12/2023
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/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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

Nidhi

Analyzed By
Nidhi Shah



--- End of Report ---

P. B. Patel

Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/04	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	Pond Nr Shiv Mandir (GW)	Analysis End Date:	01/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

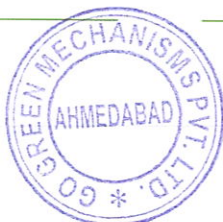
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.35	-	IS 3025-Part 11	6.5 - 8.5	No Relaxation
2	Alkalinity as CaCO ₃	129.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	32.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	48.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU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

AL & PL As Per IS 10500.

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

Nidhi

Analyzed By
Nidhi Shah



P.B. Patel

Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/1643C/76A/V3/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Pond Nr Shiv Mandir (GW)
Sample Quantity: 3.5L
Sample Condition: Satisfactory

Sampling Date: 21/11/2023
Sample Receipt Date: 24/11/2023
Analysis Start Date: 25/11/2023
Analysis End Date: 01/12/2023
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.60	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

Nidhi

Analyzed By
Nidhi Shah



P.B. Patel

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Payal Patel

Page No : 2/2

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 02/12/2023

M/s Moil Limited

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

SAMPLE DETAILS


Lab ID:	Lab/PN/1643C/76A/V3/04	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	Pond Nr Shiv Mandir (GW)	Analysis End Date:	01/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

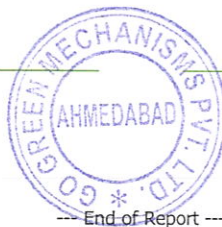
Specification:

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

AL & PL As Per IS 10500.

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


Analyzed By
Nidhi Shah



--- End of Report ---


Authorized Signatory
Payal Patel

Page No : 1/1

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Reporting Date: 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/05	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Nr Mine Workshop	Analysis start- End Date:	25/11/2023-01/12/2023
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)	67.17	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.32	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.55	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.12	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Nidhi Shah

Analyzed By
Nidhi Shah



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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

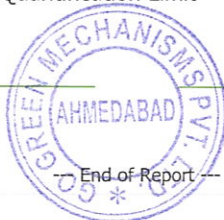
Lab ID:	Lab/PN/1643C/76A/V3/05	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Nr Mine Workshop	Analysis start- End Date:	25/11/2023-01/12/2023
Env. Cond.-Sampling:	Ambient 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	45	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Nidhi Shah

Analyzed By
Nidhi Shah



End of Report

P. B. Patel

Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/06	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Nr Railway Station	Analysis start- End Date:	25/11/2023-01/12/2023
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)	59.83	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.31	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.28	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.09	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.54	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

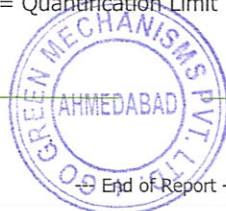
Lab ID:	Lab/PN/1643C/76A/V3/06	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Nr Railway Station	Analysis start- End Date:	25/11/2023-01/12/2023
Env. Cond.-Sampling:	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	42	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Pidhi

Analyzed By
Nidhi Shah



End of Report ---

P. B. Patel

Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/07	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Kurmuda Grampanchayat Office	Analysis start- End Date:	25/11/2023-01/12/2023
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)	59.94	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.04	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.72	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.40	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.24	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Nidhi

Analyzed By
Nidhi Shah



P. B. Patel

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Payal Patel

Page No : 1/2

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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/1643C/76A/V3/07

Reporting Date: 02/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/07	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Kurmuda Grampanchayat Office	Analysis start- End Date:	25/11/2023-01/12/2023
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	43	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

Nidhi

Analyzed By
Nidhi Shah



P. B. Patel

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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/08	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Nr Mine Magazine	Analysis start- End Date:	25/11/2023-01/12/2023
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)	63.83	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.03	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.77	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.39	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Nidhi

Analyzed By
Nidhi Shah



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Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1643C/76A/V3/08	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Nr Mine Magazine	Analysis start- End Date:	25/11/2023-01/12/2023
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	34	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	43	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	6.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1643C/76A/V3/09

Reporting Date: 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Laboratory Representative

Sampling Date:

21/11/2023

Sample Description:

Source Noise

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

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

Nidhi

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End of Report

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

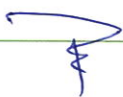
Lab ID:	Lab/PN/1644C/76B/V3/01	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	Drinking Water of Syndicate Colony (DW)	Analysis End Date:	04/12/2023
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As per IS 10500

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



Analyzed By
Rajat Chauhan




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Payal Patel

Page No : 1/2

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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/1644C/76B/V3/01

Reporting Date : 05/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1644C/76B/V3/01	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	Drinking Water of Syndicate Colony (DW)	Analysis End Date:	04/12/2023
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As per IS 10500

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

Analyzed By
Rajat Chauhan



--- End of Report ---

Authorized Signatory
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1644C/76B/V3/01	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	Drinking Water of Syndicate Colony (DW)	Analysis End Date:	04/12/2023
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As per IS 10500

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

Analyzed By
Rajat Chauhan



Authorized Signatory
Payal Patel

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/12/2023

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/1644C/76B/V3/02	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	G.W. Pond water filter plant	Analysis End Date:	04/12/2023
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

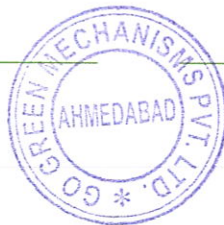
Specification:

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

AL & PL As per IS 10500

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


Analyzed By
Rajat Chauhan




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Payal Patel

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Reporting Date : 05/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/1644C/76B/V3/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W. Pond water filter plant
Sample Quantity: 5 L
Sample Condition: Satisfactory

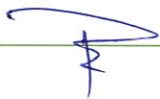
Sampling Date: 21/11/2023
Sample Receipt Date: 24/11/2023
Analysis Start Date: 25/11/2023
Analysis End Date: 04/12/2023
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.41	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As per IS 10500

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



Analyzed By
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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1644C/76B/V3/02	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	25/11/2023
Sample Description:	G.W. Pond water filter plant	Analysis End Date:	04/12/2023
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As per IS 10500

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



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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/12/2023

M/s Moil Limited

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



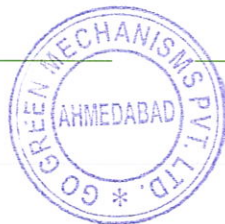
SAMPLE DETAILS

Lab ID:	Lab/PN/1644C/76B/V3/03	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Near Siren Room Dump	Analysis start- End Date:	25/11/2023-04/12/2023
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)	69.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.08	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	18.52	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/12/2023

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/1644C/76B/V3/03	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Near Siren Room Dump	Analysis start- End Date:	25/11/2023-04/12/2023
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	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 05/12/2023

M/s Moil Limited

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



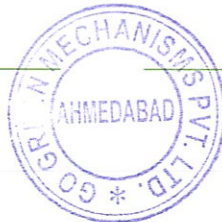
SAMPLE DETAILS

Lab ID:	Lab/PN/1644C/76B/V3/04	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Syndicate Colony	Analysis start- End Date:	25/11/2023-04/12/2023
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)	71.41	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.64	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.50	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.97	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Reporting Date: 05/12/2023

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/1644C/76B/V3/04	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Syndicate Colony	Analysis start- End Date:	25/11/2023-04/12/2023
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4.0	m/s	GGMPL/SOP/MP/01:2020	NS

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Reporting Date: 05/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Laboratory Representative

Sampling Date:

21/11/2023

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1644C/76B/V3/05A	Foot Wall Haulage Road	Day time	dB(A)Leq	IS 4758	54.6	-
2	Lab/PN/1644C/76B/V3/05B	Near Siren Room Dump	Day time	dB(A)Leq	IS 4758	59.9	-

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

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End of Report ---

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1645C/76C/V3/01	Sampling Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	24/11/2023
Sample Type:	Water	Analysis Start Date:	24/11/2023
Sample Description:	Mine Pit Discharge (GW)	Analysis End Date:	01/12/2023
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

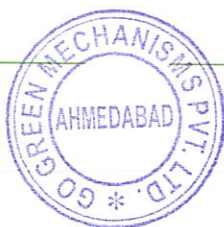
Specification:

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

AL & PL As Per IS 10500.

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


Analyzed By
Ritu Shah




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Payal Patel

Page No : 1/2

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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/1645C/76C/V3/01

Reporting Date : 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/1645C/76C/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Mine Pit Discharge (GW)
Sample Quantity: 5 L
Sample Condition: Satisfactory

Sampling Date: 21/11/2023
Sample Receipt Date: 24/11/2023
Analysis Start Date: 24/11/2023
Analysis End Date: 01/12/2023
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	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


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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 02/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID: Lab/PN/1645C/76C/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Mine Pit Discharge (GW)
Sample Quantity: 5 L
Sample Condition: Satisfactory

Sampling Date: 21/11/2023
Sample Receipt Date: 24/11/2023
Analysis Start Date: 24/11/2023
Analysis End Date: 01/12/2023
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/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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



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Ritu Shah



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CERTIFICATE OF ANALYSIS

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

Reporting Date : 02/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

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

Specification:

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

AL & PL As Per IS 10500.

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 02/12/2023



SAMPLE DETAILS

Lab ID: Lab/PN/1645C/76C/V3/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Piezometer Borewell (GW)
Sample Quantity: 5 L
Sample Condition: Satisfactory

Sampling Date: 21/11/2023
Sample Receipt Date: 24/11/2023
Analysis Start Date: 24/11/2023
Analysis End Date: 01/12/2023
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	3.62	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.75	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 02/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

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

Specification:

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

AL & PL As Per IS 10500.

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 04/12/2023

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/1645C/76C/V3/03	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Near Haulage Road View Point	Analysis start- End Date:	24/11/2023-02/12/2023
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)	67.31	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)	12.54	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.67	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.72	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)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 04/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1645C/76C/V3/03	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Near Haulage Road View Point	Analysis start- End Date:	24/11/2023-02/12/2023
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	53	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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

RK

Analyzed By
Ritu Shah



--- End of Report ---

P.B. Patel

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/12/2023

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1645C/76C/V3/04	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Near Mine Hospital	Analysis start- End Date:	24/11/2023-01/12/2023
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)	65.15	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.15	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.32	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.77	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.24	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/12/2023

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1645C/76C/V3/04	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Near Mine Hospital	Analysis start- End Date:	24/11/2023-01/12/2023
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	53	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 02/12/2023

M/s Moil Limited

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




SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory representative

Sampling Date: 21/11/2023
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1645C/76C/V3/05A	Near Haulage Road View Point	Day Time	dB(A)Leq	IS 4758	57.1	-
2	Lab/PN/1645C/76C/V3/05B	Near Mine Hospital	Day Time	dB(A)Leq	IS 4758	53.6	-

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


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CERTIFICATE OF ANALYSIS

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

Reporting Date : 06/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1646C/76D/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Near Pit Office (DW)
Sample Quantity: 5L
Sample Condition: Satisfactory

Sampling Date: 21/11/2023
Sample Receipt Date: 24/11/2023
Analysis Start Date: 25/11/2023
Analysis End Date: 05/12/2023
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

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

AL & PL As Per IS 10500

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

Kinjal
Analyzed By
Kinjal Damor



P.B. Patel
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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 06/12/2023



SAMPLE DETAILS

Lab ID: Lab/PN/1646C/76D/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Near Pit Office (DW)
Sample Quantity: 5L
Sample Condition: Satisfactory

Sampling Date: 21/11/2023
Sample Receipt Date: 24/11/2023
Analysis Start Date: 25/11/2023
Analysis End Date: 05/12/2023
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.0	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	3.69	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/1646C/76D/V3/01A

Reporting Date : 06/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID: Lab/PN/1646C/76D/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Near Pit Office (DW)
Sample Quantity: 5L
Sample Condition: Satisfactory

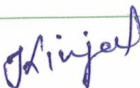
Sampling Date: 21/11/2023
Sample Receipt Date: 24/11/2023
Analysis Start Date: 25/11/2023
Analysis End Date: 05/12/2023
Sampling Method: GGMPL/WI/27A
Packing: Sealed

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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 06/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1646C/76D/V3/02	Sampling Start Date:	21/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	22/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	24/11/2023
Sample Description:	Near Pit Office	Analysis start- End Date:	25/11/2023-05/12/2023
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)	60.87	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.96	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.95	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.40	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.56	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.02	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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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/1652C/76E/V3/01

Reporting Date : 08/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1652C/76E/V3/01	Sampling Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/11/2023
Sample Type:	Water	Analysis Start Date:	27/11/2023
Sample Description:	At Siding office (DW)	Analysis End Date:	07/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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

Kinjal
Analyzed By
Kinjal Damor



P.B. Patel
Authorized Signatory
Payal Patel

Page No : 1/2

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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/1652C/76E/V3/01

Reporting Date : 08/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/1652C/76E/V3/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: At Siding office (DW)
Sample Quantity: 3.5L
Sample Condition: Satisfactory

Sampling Date: 22/11/2023
Sample Receipt Date: 26/11/2023
Analysis Start Date: 27/11/2023
Analysis End Date: 07/12/2023
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	3.14	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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

Analyzed By
Kinjal Damor

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Payal Patel

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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1652C/76E/V3/01	Sampling Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/11/2023
Sample Type:	Water	Analysis Start Date:	27/11/2023
Sample Description:	At Siding office (DW)	Analysis End Date:	07/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	-	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	-	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/1652C/76E/V3/02

Reporting Date : 08/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1652C/76E/V3/02	Sampling Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/11/2023
Sample Type:	Water	Analysis Start Date:	27/11/2023
Sample Description:	Borewell Water near Balapur Hamesha Camp (GW)	Analysis End Date:	07/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1652C/76E/V3/02	Sampling Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/11/2023
Sample Type:	Water	Analysis Start Date:	27/11/2023
Sample Description:	Borewell Water near Balapur Hamesha Camp (GW)	Analysis End Date:	07/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
13	Turbidity	0.80	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.62	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500

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Kinjal Damor



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Payal Patel

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Page No : 2/2

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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/1652C/76E/V3/02A

Reporting Date : 08/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1652C/76E/V3/02	Sampling Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/11/2023
Sample Type:	Water	Analysis Start Date:	27/11/2023
Sample Description:	Borewell Water near Balapur Hamesha Camp (GW)	Analysis End Date:	07/12/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	-	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	-	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/1652C/76E/V3/03

Reporting Date: 08/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1652C/76E/V3/03	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near Siding Office	Analysis start- End Date:	27/11/2023-07/12/2023
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)	67.40	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.40	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.04	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.20	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.09	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	9.97	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1652C/76E/V3/03	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near Siding Office	Analysis start- End Date:	27/11/2023-07/12/2023
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	43	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	8.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1652C/76E/V3/04	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near Loading Area	Analysis start- End Date:	27/11/2023-07/12/2023
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)	67.24	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.09	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.72	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.99	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	BQL (QL=5)	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Kinjal Damor



Authorized Signatory
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1652C/76E/V3/04	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near Loading Area	Analysis start- End Date:	27/11/2023-07/12/2023
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	44	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	8.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Page No : 2/2

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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/1652C/76E/V3/05

Reporting Date: 08/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

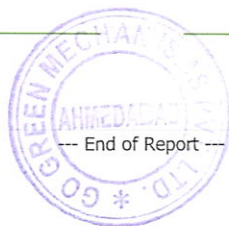
Sampling Instrument : Sound Level Meter
Sample By : Laboratory Representative

Sampling Date: 22/11/2023
Sample Description: Source Noise

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

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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/1653C/76F/V3/01

Reporting Date : 06/12/2023

M/s Moil Limited

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



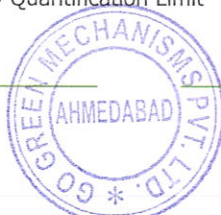
SAMPLE DETAILS

Lab ID:	Lab/PN/1653C/76F/V3/01	Sampling Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/11/2023
Sample Type:	Waste Water	Analysis Start Date:	27/11/2023
Sample Description:	Boiler Water (Inlet) (WW)	Analysis End Date:	05/12/2023
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	7.68	-	IS 3025- Part 11	-
2	Total Suspended Solids	22.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	65.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.10	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	21.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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


Analyzed By
Ritu Shah



--- End of Report ---


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Payal Patel

Page No : 1/1

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Gujarat. INDIA

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Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 06/12/2023

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/1653C/76F/V3/02	Sampling Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/11/2023
Sample Type:	Water	Analysis Start Date:	27/11/2023
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	05/12/2023
Sample Quantity:	3.5 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	7.21	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO ₃	126.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	30.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	32.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.56	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	10.20	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	24.64	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids	214.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO ₃	118.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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


Analyzed By
Ritu Shah




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CERTIFICATE OF ANALYSIS

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

Reporting Date : 06/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1653C/76F/V3/02	Sampling Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/11/2023
Sample Type:	Water	Analysis Start Date:	27/11/2023
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	05/12/2023
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

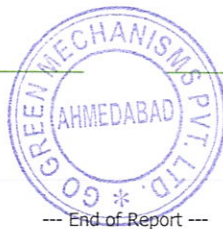
Specification:

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	2.20	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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


Analyzed By
Ritu Shah




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Page No : 2/2

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 06/12/2023

M/s Moil Limited

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

SAMPLE DETAILS

Lab ID:	Lab/PN/1653C/76F/V3/02	Sampling Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/11/2023
Sample Type:	Water	Analysis Start Date:	27/11/2023
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	05/12/2023
Sample Quantity:	3.5 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/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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


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Page No : 1/1

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

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

Reporting Date : 06/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1653C/76F/V3/03	Sampling Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/11/2023
Sample Type:	Waste Water	Analysis Start Date:	27/11/2023
Sample Description:	Drainage Water (Near Admin Office) (WW)	Analysis End Date:	05/12/2023
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	7.39	-	IS 3025- Part 11	-
2	Total Suspended Solids	26.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	90.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	27.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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


Analyzed By
Ritu Shah




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Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 06/12/2023

M/s Moil Limited

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



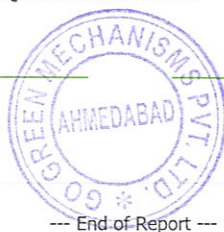
SAMPLE DETAILS

Lab ID:	Lab/PN/1653C/76F/V3/04	Sampling Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/11/2023
Sample Type:	Water	Analysis Start Date:	27/11/2023
Sample Description:	ETP Inlet (WW)	Analysis End Date:	05/12/2023
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	7.95	-	IS 3025- Part 11	-
2	Total Suspended Solids	28.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	65.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	20.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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


Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 06/12/2023

M/s Moil Limited

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




TC-7073

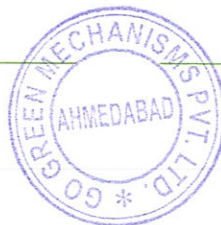
SAMPLE DETAILS

Lab ID:	Lab/PN/1653C/76F/V3/05	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near Admin Office	Analysis start- End Date:	27/11/2023-05/12/2023
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)	68.75	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.36	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.19	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.79	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.82	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
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Page No : 1/2

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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/1653C/76F/V3/05

Reporting Date: 06/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1653C/76F/V3/05	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near Admin Office	Analysis start- End Date:	27/11/2023-05/12/2023
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	75	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 06/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1653C/76F/V3/06	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near infront of MCC Room	Analysis start- End Date:	27/11/2023-05/12/2023
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)	70.35	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.11	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.29	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.24	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Ritu Shah




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Payal Patel

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 06/12/2023

M/s Moil Limited

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

(M.S)




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1653C/76F/V3/06	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near infront of MCC Room	Analysis start- End Date:	27/11/2023-05/12/2023
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	75	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 06/12/2023

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS


Lab ID:	Lab/PN/1653C/76F/V3/07	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near Shift incharge Room	Analysis start- End Date:	27/11/2023-05/12/2023
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)	65.79	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.15	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	12.46	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	19.18	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	BQL (QL=10)	µg/m ³	IS 5182- Part 9	100
6	Ammonia (NH ₃)	11.39	µg/Nm ³	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m ³	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m ³	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.11	mg/m ³	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m ³	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m ³	USEPA Method IO 3.4	6

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Reporting Date: 06/12/2023

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(M.S)




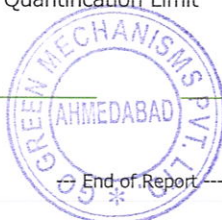
SAMPLE DETAILS

Lab ID:	Lab/PN/1653C/76F/V3/07	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near Shift incharge Room	Analysis start- End Date:	27/11/2023-05/12/2023
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	46	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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Ritu Shah




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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 06/12/2023

M/s Moil Limited

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




TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1653C/76F/V3/08	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near Mine Workshop	Analysis start- End Date:	27/11/2023-05/12/2023
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)	66.07	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.64	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.81	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.40	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	14.40	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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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/1653C/76F/V3/08

Reporting Date: 06/12/2023

M/s Moil Limited

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



SAMPLE DETAILS

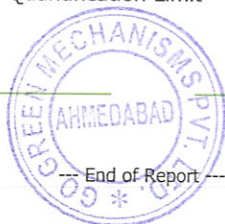
Lab ID:	Lab/PN/1653C/76F/V3/08	Sampling Start Date:	22/11/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	23/11/2023
Sample Type:	Ambient Air	Sample Receipt Date:	26/11/2023
Sample Description:	Near Mine Workshop	Analysis start- End Date:	27/11/2023-05/12/2023
Env. Cond.-Sampling:	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	47	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	4	m/s	GGMPL/SOP/MP/01:2020	NS

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



Analyzed By
Ritu Shah




Authorized Signatory
Payal Patel

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 06/12/2023

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

22/11/2023

Sample By Laboratory Representative

Sample Description:

Source Noise

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

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

Rit

Analyzed By
Ritu Shah



P. B. Patel

Authorized Signatory
Payal Patel

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