

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/501D/76A/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/01	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Nr Workshop Borewell (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

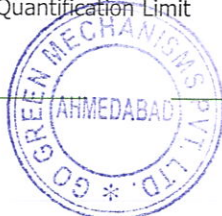
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	152.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	51.30	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	64.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.35	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.80	mg/L	APHA 23rd Edn 3500 Mg B	30	10
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.13	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	27.59	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	299.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	193.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL AS Per IS 10500

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

Analyzed By
Aarmi Patel



Authorized Signatory
Manish Kumawat

Page No : 1/2

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Report Number: GGMPL/PN/501D/76A/01

Reporting Date : 04/06/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/501D/76A/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Nr Workshop Borewell (GW)
Sample Quantity: 3.5L
Sample Condition: Satisfactory

Sampling Date: 23/05/2024
Sample Receipt Date: 25/05/2024
Analysis Start Date: 27/05/2024
Analysis End Date: 03/06/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	0.08	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.95	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

ABPS

Analyzed By
Aarmi Patel



--- End of Report ---

[Signature]

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/501D/76A/02

M/s Moil Limited

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

Reporting Date : 04/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/02	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Old Pit Reservoir	Analysis End Date:	03/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

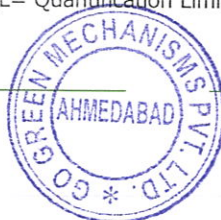
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	167.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	49.30	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	65.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.42	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.55	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.81	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	21.35	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	301.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	187.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL & PL AS Per IS 10500

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

Aarmi Patel

Analyzed By
Aarmi Patel



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Manish Kumawat

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Report Number: GGMPL/PN/501D/76A/02

M/s Moil Limited

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

Reporting Date : 04/06/2024



SAMPLE DETAILS

Lab ID: Lab/PN/501D/76A/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Old Pit Reservoir
Sample Quantity: 3.5L
Sample Condition: Satisfactory

Sampling Date: 23/05/2024
Sample Receipt Date: 25/05/2024
Analysis Start Date: 27/05/2024
Analysis End Date: 03/06/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	0.09	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.35	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

AB Patel
Analyzed By
Aarmi Patel



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Report Number: GGMPL/PN/501D/76A/03

M/s Moil Limited

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

Reporting Date : 04/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/03	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Kurmuda Plant	Analysis End Date:	03/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	128.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	55.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.28	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.15	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.21	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	26.23	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	260.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	156.00	mg/L	APHA 23rd Edn 2340 C	200	600

Norms As Per IS 10500

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

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



SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/03	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Kurmuda Plant	Analysis End Date:	03/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	0.1	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.42	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

Norms As Per IS 10500

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

AB Patel

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Aarmi Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/501D/76A/04

M/s Moil Limited

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

Reporting Date : 04/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/04	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Pond Nr Shiv Mandir	Analysis End Date:	03/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	128.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	40.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	66.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.18	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	15.80	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.53	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	22.23	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	251.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	7.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	167.00	mg/L	APHA 23rd Edn 2340 C	200	600

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Reporting Date : 04/06/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/04	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Pond Nr Shiv Mandir	Analysis End Date:	03/06/2024
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	0.07	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.48	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/501D/76A/05

Reporting Date: 04/06/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/05	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Nr Mine Workshop	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.93	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.62	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.23	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.40	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)	1.07	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
Aarmi Patel



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/501D/76A/05

Reporting Date: 04/06/2024

M/s Moil Limited

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



TC-7073

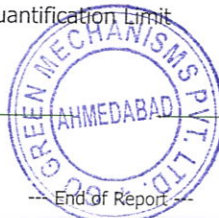
SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/05	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Nr Mine Workshop	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	41	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By
Aarmi Patel



Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/501D/76A/06

Reporting Date: 04/06/2024

M/s Moil Limited

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



SAMPLE DETAILS

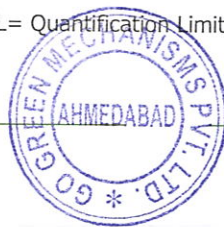
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Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Nr Railway Station	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	69.07	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.87	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.86	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	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
Aarmi Patel





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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/501D/76A/06

Reporting Date: 04/06/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/06	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Nr Railway Station	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	40	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	42	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/501D/76A/07

Reporting Date: 04/06/2024

M/s Moil Limited

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



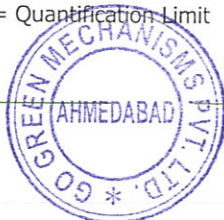
SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/07	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Kurmuda Grampanchayat Office	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.72	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.83	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.07	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.62	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.17	µg/m3	IS 5182- Part 9	180
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)	1.03	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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Report Number : GGMPL/PN/501D/76A/07

Reporting Date: 04/06/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/07	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Kurmuda Grampanchayat Office	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	42	°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	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/501D/76A/08

Reporting Date: 04/06/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/08	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Nr Mine Magazine	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.01	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	41.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.79	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.37	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	14.25	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.05	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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Aarmi Patel




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Manish Kumawat

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Reporting Date: 04/06/2024

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




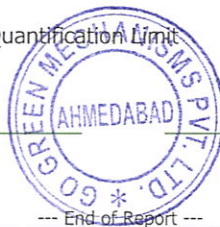
SAMPLE DETAILS

Lab ID:	Lab/PN/501D/76A/08	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Nr Mine Magazine	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	41	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	42	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.5	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Aarmi Patel




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Manish Kumawat

--- End of Report ---

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/501D/76A/09

Reporting Date: 04/06/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 23/05/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/501D/76 A/09A	Near Mine Workshop	Day Time	dB(A)Leq	IS 4758	71.2	-
2	Lab/PN/501D/76 A/09B	Nr Haulage Road	Day Time	dB(A)Leq	IS 4758	67.8	-
3	Lab/PN/501D/76 A/09C	Nr Crushing & Screening	Day Time	dB(A)Leq	IS 4758	72.3	-
4	Lab/PN/501D/76 A/09D	Nr Mine Magazine	Day Time	dB(A)Leq	IS 4758	65.3	-

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


Analyzed By
Aarmi Patel



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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/504D/76A/01

M/s Moil Limited

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

Reporting Date : 03/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/504D/76A/01	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Nr Workshop Borewell (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



--- End of Report ---

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Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/504D/76A/02

M/s Moil Limited

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

Reporting Date : 03/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/504D/76A/02	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Old Pit Reservoir (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/504D/76A/03

M/s Moil Limited

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

Reporting Date : 03/06/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/504D/76A/03	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Kurmuda Plant (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

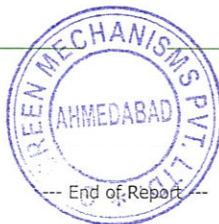
Specification:

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

AL & PL as per IS 10500.

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


Analyzed By
Nidhi Shah




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Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/504D/76A/04

M/s Moil Limited

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

Reporting Date : 03/06/2024



SAMPLE DETAILS

Lab ID: Lab/PN/504D/76A/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Pond Nr Shiv Mandir (GW)
Sample Quantity: 500 ml
Sample Condition: Satisfactory


Sampling Date: 23/05/2024
Sample Receipt Date: 25/05/2024
Analysis Start Date: 27/05/2024
Analysis End Date: 03/06/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

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

AL & PL as per IS 10500.

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/502D/76B/01

Reporting Date : 04/06/2024

M/s Moil Limited

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



SAMPLE DETAILS

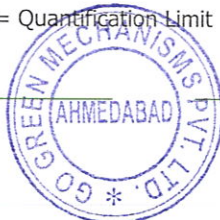
Lab ID:	Lab/PN/502D/76B/01	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Syndicate Colony (DW)	Analysis End Date:	03/06/2024
Sample Quantity:	3.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	130.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	35.27	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	28.49	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	10.69	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.58	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	24.66	mg/L	APHA 23rd Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	212.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	132.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS

AL & PL as per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/502D/76B/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/502D/76B/01	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Syndicate Colony (DW)	Analysis End Date:	03/06/2024
Sample Quantity:	3.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edition (2130 B):	1	5
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.38	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
16	Nitrate	0.51	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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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/502D/76B/02

Reporting Date : 04/06/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/502D/76B/02	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Pond Near Filter Plant (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	3.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

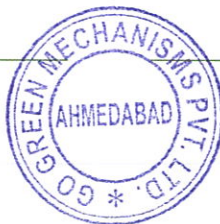
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	172.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	38.47	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	38.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.71	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.03	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.82	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	29.05	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	254.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/502D/76B/02

M/s Moil Limited

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

Reporting Date : 04/06/2024



SAMPLE DETAILS

Lab ID: Lab/PN/502D/76B/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Pond Near Filter Plant (GW)

Sampling Date: 23/05/2024
Sample Receipt Date: 25/05/2024
Analysis Start Date: 27/05/2024
Analysis End Date: 03/06/2024

Sample Quantity: 3.8 L
Sample Condition: Satisfactory

Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	162.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.62	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No Relaxation

AL & PL as per IS 10500.

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

Analyzed By
Nidhi Shah



Authorized Signatory
Manish Kumawat

--- End of Report ---

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/502D/76B/03

Reporting Date: 04/06/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/502D/76B/03	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Near Siren Room Dump	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.26	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)	11.09	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.35	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.48	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


Analyzed By
Nidhi Shah




Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/502D/76B/03

Reporting Date: 04/06/2024

M/s Moil Limited

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




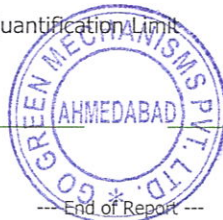
SAMPLE DETAILS

Lab ID:	Lab/PN/502D/76B/03	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Near Siren Room Dump	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	37	°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	10	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Nidhi Shah




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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/502D/76B/04

Reporting Date: 04/06/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/502D/76B/04	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Syndicate Colony	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	68.00	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)	12.35	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.58	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.85	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Nidhi Shah

Analyzed By
Nidhi Shah



Manish Kumawat

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/502D/76B/04

Reporting Date: 04/06/2024

M/s Moil Limited

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

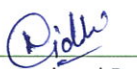


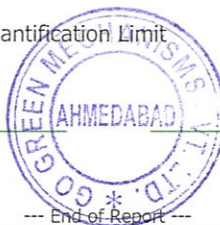
SAMPLE DETAILS

Lab ID:	Lab/PN/502D/76B/04	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Syndicate Colony	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	38	°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	10	m/s	GGMPL/SOP/MP/01:2020	NS

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


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Nidhi Shah




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Manish Kumawat

Page No : 2/2

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Head Office & Lab

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Gujarat. INDIA

Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/502D/76B/05

Reporting Date: 04/06/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

23/05/2024

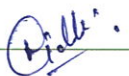
Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/502D/76 B/05A	Foot Wall Haulage Road	Day Time	dB(A)Leq	IS 4758	62.2	-
2	Lab/PN/502D/76 B/05B	Near Siren Room Dump	Day Time	dB(A)Leq	IS 4758	64.4	-

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


Analyzed By
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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/505D/76B/01

M/s Moil Limited

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

Reporting Date : 03/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/505D/76B/01	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Drinking Water of Syndicate Colony (DW)	Analysis End Date:	03/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By
Nidhi Shah



Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/505D/76B/02

M/s Moil Limited

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

Reporting Date : 03/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/505D/76B/02	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Ground Water	Analysis Start Date:	27/05/2024
Sample Description:	Pond Near Filter Plant (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

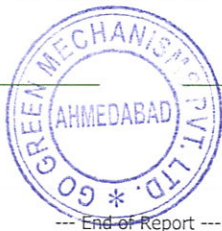
Specification:

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

AL & PL as per IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



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Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/503D/76C/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/503D/76C/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W Of Mine Pit Discharge

Sampling Date: 23/05/2024
Sample Receipt Date: 25/05/2024
Analysis Start Date: 25/05/2024
Analysis End Date: 03/06/2024


Sample Quantity: 3.5 L
Sample Condition: Satisfactory

Sampling Method: GGMPL/WI/27A
Packing: Sealed

					Specification:	
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	185.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	42.08	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	64.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.52	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	29.16	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.85	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	52.45	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	350.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500

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


Analyzed By
Priyanka Shrimali




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/503D/76C/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



SAMPLE DETAILS

Lab ID: Lab/PN/503D/76C/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W Of Mine Pit Discharge
Sample Quantity: 3.5 L
Sample Condition: Satisfactory

Sampling Date: 23/05/2024
Sample Receipt Date: 25/05/2024
Analysis Start Date: 25/05/2024
Analysis End Date: 03/06/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

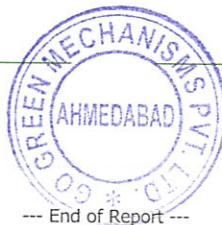
Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	225.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	5.49	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No Relaxation

AL & PL As Per IS 10500

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/503D/76C/02

Reporting Date : 04/06/2024

M/s Moil Limited

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



SAMPLE DETAILS

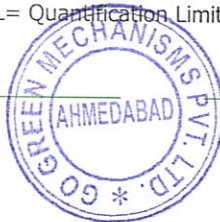
Lab ID:	Lab/PN/503D/76C/02	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	25/05/2024
Sample Description:	G.W of Piezometer Borewell	Analysis End Date:	03/06/2024
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	226.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	56.11	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	82.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.50	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	26.73	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	8.35	-	IS 3025- Part 11	6.5 to 8.5	No Relaxation
9	Sulphate	52.55	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	384.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	16.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	250.00	mg/L	APHA 23rd Edn 2340 C	200	600

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


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Priyanka Shrimali




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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/503D/76C/02

M/s Moil Limited

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

Reporting Date : 04/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/503D/76C/02	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Water	Analysis Start Date:	25/05/2024
Sample Description:	G.W of Piezometer Borewell	Analysis End Date:	03/06/2024
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	4.0	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	6.13	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

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

Priyanka
Analyzed By
Priyanka Shrimali



--- End of Report ---

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Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/503D/76C/03

Reporting Date: 04/06/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/503D/76C/03	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Near Haulage Road viewpoint	Analysis start- End Date:	25/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	72.00	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	42.90	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	17.33	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.17	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.43	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	17.09	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.08	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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Priyanka Shrimali




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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/503D/76C/03

M/s Moil Limited

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

Reporting Date: 04/06/2024




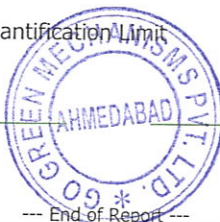
SAMPLE DETAILS

Lab ID:	Lab/PN/503D/76C/03	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Near Haulage Road viewpoint	Analysis start- End Date:	25/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	38	°C	GGMP/L/SOP/MP/01	NS
13	Relative Humidity	45	%	GGMP/L/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMP/L/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	10.8	m/s	GGMP/L/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/503D/76C/04

Reporting Date: 04/06/2024

M/s Moil Limited

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




SAMPLE DETAILS


Lab ID:	Lab/PN/503D/76C/04	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Near Mine Hospital	Analysis start- End Date:	25/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	70.05	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	16.74	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.95	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.28	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	19.94	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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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/503D/76C/04

Reporting Date: 04/06/2024

M/s Moil Limited

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




TC-7073

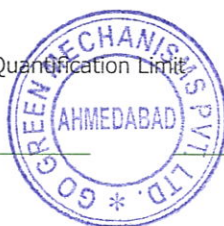
SAMPLE DETAILS

Lab ID:	Lab/PN/503D/76C/04	Sampling Start Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	24/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	25/05/2024
Sample Description:	Near Mine Hospital	Analysis start- End Date:	25/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C


Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	39	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	45	%	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	10.8	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/503D/76C/05

Reporting Date: 04/06/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

23/05/2024

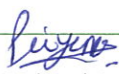
Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/503D/76C/05A	Near Haulage Road View Point	Day Time	dB(A)Leq	IS 4758	58.6	-
2	Lab/PN/503D/76C/05B	Near Mine Hospital	Day Time	dB(A)Leq	IS 4758	56.4	-

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


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Priyanka Shrimali



--- End of Report ---


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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/506D/76C/01

M/s Moil Limited

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

Reporting Date : 03/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/506D/76C/01	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Ground Water	Analysis Start Date:	27/05/2024
Sample Description:	Mine Pit Discharge (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

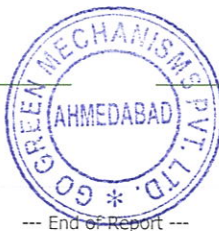
Specification:

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

AL & PL as per IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



H
Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/506D/76C/02

M/s Moil Limited

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

Reporting Date : 03/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/506D/76C/02	Sampling Date:	23/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	25/05/2024
Sample Type:	Ground Water	Analysis Start Date:	27/05/2024
Sample Description:	Piezometer Borewell (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By
Nidhi Shah



--- End of Report ---

Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/514D/76D/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/514D/76D/01	Sampling Date:	24/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	D.W of Near Pit Office	Analysis End Date:	03/06/2024
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	Alkalinity as CaCO ₃	149.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	48.09	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	60.48	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	19.44	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.85	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
8	Sulphate	39.87	mg/L	APHA 23rd Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	300.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	200.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	12.00	mg/L	APHA 23rd Edition (2540 D)	NS	NS
12	Turbidity	1.9	NTU	APHA 23rd Edition (2130 B):	1	5

AL & PL As Per IS 10500

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


Analyzed By
Priyanka Shrimali




Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/514D/76D/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/514D/76D/01	Sampling Date:	24/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	D.W of Near Pit Office	Analysis End Date:	03/06/2024
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	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	BQL (QL=0.1)	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
16	Nitrate	2.92	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500

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

Priyanka
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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/514D/76D/02

Reporting Date: 04/06/2024

M/s Moil Limited

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




SAMPLE DETAILS

Lab ID:	Lab/PN/514D/76D/02	Sampling Start Date:	24/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/05/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.87	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.14	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.35	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.63	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/514D/76D/02

Reporting Date: 04/06/2024

M/s Moil Limited

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

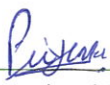


SAMPLE DETAILS

Lab ID:	Lab/PN/514D/76D/02	Sampling Start Date:	24/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/05/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
12	Temperature	41	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	46	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3	m/s	GGMPL/SOP/MP/01:2020	NS

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


Analyzed By
Priyanka Shrimali




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Manish Kumawat

--- End of Report ---

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Head Office & Lab

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Mobile No : +91-7069072001

Email Id : lab@gogreenmechanisms.com

CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/514D/76D/03

Reporting Date: 04/06/2024

M/s Moil Limited

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




SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 24/05/2024
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/514D/76 D/03A	Near Pit Office	Day Time	dB(A)Leq	IS 4758	65.8	-

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/517D/76D/01

M/s Moil Limited

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

Reporting Date : 03/06/2024



SAMPLE DETAILS

Lab ID: Lab/PN/517D/76D/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Near Pit Office (DW)
Sample Quantity: 500 ml
Sample Condition: Satisfactory

Sampling Date: 24/05/2024
Sample Receipt Date: 26/05/2024
Analysis Start Date: 27/05/2024
Analysis End Date: 03/06/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

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

AL & PL as per IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



HR
Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/515D/76E/01

Reporting Date : 04/06/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/515D/76E/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: At Siding Office (DW)
Sample Quantity: 3.8 L
Sample Condition: Satisfactory

Sampling Date: 24/05/2024
Sample Receipt Date: 26/05/2024
Analysis Start Date: 27/05/2024
Analysis End Date: 03/06/2024
Sampling Method: GGMP/L/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	91.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	36.87	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	32.48	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	7.77	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.69	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	26.71	mg/L	APHA 23rd Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	178.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	124.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS

AL & PL as per IS 10500.

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

Nidhi
Analyzed By
Nidhi Shah



Manish
Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/515D/76E/01

M/s Moil Limited

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

Reporting Date : 04/06/2024



SAMPLE DETAILS

Lab ID: Lab/PN/515D/76E/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: At Siding Office (DW)
Sample Quantity: 3.8 L
Sample Condition: Satisfactory

Sampling Date: 24/05/2024
Sample Receipt Date: 26/05/2024
Analysis Start Date: 27/05/2024
Analysis End Date: 03/06/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edition (2130 B):	1	5
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.29	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	BQL (QL=0.5)	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/515D/76E/02

M/s Moil Limited

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

Reporting Date : 04/06/2024



SAMPLE DETAILS

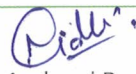
Lab ID:	Lab/PN/515D/76E/02	Sampling Date:	24/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/05/2024
Sample Type:	Ground Water	Analysis Start Date:	27/05/2024
Sample Description:	Borewell Water Near Balapur Hamesha Camp (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	3.8 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO ₃	164.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	48.49	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	47.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.72	mg/L	APHA 23rd Edn 4500 F D	1	1.5
6	Magnesium as Mg	12.87	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.82	-	IS 3025- Part 11	6.5-8.5	No Relaxation
9	Sulphate	34.02	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	283.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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


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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/515D/76E/03

Reporting Date: 04/06/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/515D/76E/03	Sampling Start Date:	24/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/05/2024
Sample Description:	Near Siding Office	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	74.39	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	38.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.27	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.05	µg/m3	IS 5182- Part 9	180
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)	1.12	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/515D/76E/04

Reporting Date: 04/06/2024

M/s Moil Limited

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



SAMPLE DETAILS

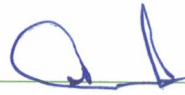
Lab ID:	Lab/PN/515D/76E/04	Sampling Start Date:	24/05/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	25/05/2024
Sample Type:	Ambient Air	Sample Receipt Date:	26/05/2024
Sample Description:	Near Loading Area	Analysis start- End Date:	27/05/2024-03/06/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.51	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)	12.92	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.31	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.68	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	15.66	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.13	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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



Analyzed By
Nidhi Shah



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/518D/76E/01

M/s Moil Limited

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

Reporting Date : 03/06/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/518D/76E/01	Sampling Date:	24/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/05/2024
Sample Type:	Water	Analysis Start Date:	27/05/2024
Sample Description:	Railway Siding office (DW)	Analysis End Date:	03/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By
Nidhi Shah



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Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/518D/76E/02

Reporting Date : 03/06/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/518D/76E/02	Sampling Date:	24/05/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	26/05/2024
Sample Type:	Ground Water	Analysis Start Date:	27/05/2024
Sample Description:	Borewell Water near Balapur Hamesha Camp (GW)	Analysis End Date:	03/06/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

Analyzed By
Nidhi Shah



Authorized Signatory
Dr. Haragobinda Srichandan

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