

CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1494D/76A/01	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	Nr Workshop Borewell (GW)	Analysis End Date:	06/08/2024
Sample Quantity:	3 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	148.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	36.86	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	40.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.48	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.84	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.25	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	26.89	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	282.0	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.66	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	186.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL& PL As Per IS 10500.

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

Khushbu
Analyzed By
Khushbu Suthar



Manish
Authorized Signatory
Manish Kumawat

Page No : 1/2

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

Reporting Date : 07/08/2024

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/1494D/76A/01	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	Nr Workshop Borewell (GW)	Analysis End Date:	06/08/2024
Sample Quantity:	3 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	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	1.58	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL& PL As Per IS 10500.

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1494D/76A/02	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	Old Pit Reservoir	Analysis End Date:	06/08/2024
Sample Quantity:	3 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	40.48	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	39.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.75	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.35	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.72	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	26.93	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	316.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	193.000	mg/L	APHA 23rd Edn 2340 C	200	600

AL& PL As Per IS 10500.

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1494D/76A/02	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	Old Pit Reservoir	Analysis End Date:	06/08/2024
Sample Quantity:	3 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	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.06	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL& PL As Per IS 10500.

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1494D/76A/03	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	Kurmuda Plant	Analysis End Date:	06/08/2024
Sample Quantity:	3 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	132.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	37.67	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	40.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.42	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	19.92	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	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	29.67	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	276.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	176.00	mg/L	APHA 23rd Edn 2340 C	200	600

AL& PL As Per IS 10500.

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M/s Moil Limited

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

Reporting Date : 07/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1494D/76A/03	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	Kurmuda Plant	Analysis End Date:	06/08/2024
Sample Quantity:	3 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	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.77	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL& PL As Per IS 10500.

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CERTIFICATE OF ANALYSIS

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Reporting Date : 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

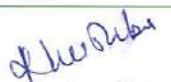
Lab ID:	Lab/PN/1494D/76A/04	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	Pond Nr Shiv Mandir	Analysis End Date:	06/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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


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



SAMPLE DETAILS

Lab ID: Lab/PN/1494D/76A/04
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Pond Nr Shiv Mandir
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 27/07/2024
Sample Receipt Date: 29/07/2024
Analysis Start Date: 30/07/2024
Analysis End Date: 06/08/2024
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	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.16	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

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M/s Moil Limited

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

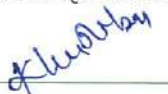


SAMPLE DETAILS

Lab ID:	Lab/PN/1494D/76A/05	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Nr Mine Workshop	Analysis start- End Date:	30/07/2024-06/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

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

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


Analyzed By
Khushbu Suthar




Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

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/1494D/76A/05	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Nr Mine Workshop	Analysis start- End Date:	30/07/2024-06/08/2024
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	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



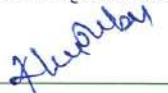
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1494D/76A/06	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Nr Railway Station	Analysis start- End Date:	30/07/2024-06/08/2024
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)	60.02	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.99	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.83	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.72	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.95	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.12269	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

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/1494D/76A/06	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Nr Railway Station	Analysis start- End Date:	30/07/2024-06/08/2024
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	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	55	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1494D/76A/07	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Kurmuda Grampanchayat Office	Analysis start- End Date:	30/07/2024-06/08/2024
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)	67.34	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.10	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.67	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.96	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06541	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

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Reporting Date: 07/08/2024

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/1494D/76A/07	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Kurmuda Grampanchayat Office	Analysis start- End Date:	30/07/2024-06/08/2024
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1494D/76A/08	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Nr Mine Magazine	Analysis start- End Date:	30/07/2024-06/08/2024
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)	61.93	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	24.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.67	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.27	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.78	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.07687	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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Khushbu
Analyzed By
Khushbu Suthar



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M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1494D/76A/08	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Nr Mine Magazine	Analysis start- End Date:	30/07/2024-06/08/2024
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	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

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: 27/07/2024
Sample Description: Source Noise

Sl.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1494D/76A/09A	Near Mine Workshop	Day Time	dB(A)Leq	IS 4758	62.6	-
2	Lab/PN/1494D/76A/09B	Near Haulage Road	Day Time	dB(A)Leq	IS 4758	56.8	-
3	Lab/PN/1494D/76A/09C	Near Crushing and Screening	Day Time	dB(A)Leq	IS 4758	64.3	-
4	Lab/PN/1494D/76A/09D	Near Mine Magazine	Day Time	dB(A)Leq	IS 4758	59.9	-

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


Analyzed By
Khushbu Suthar




Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 05/08/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/1495D/76A/01	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Ground Water	Analysis Start Date:	30/07/2024
Sample Description:	Nr Workshop Borewell (GW)	Analysis End Date:	05/08/2024
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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Authorized Signatory
Dr. Haragobinda Srichandan

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 05/08/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/1495D/76A/02	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Ground Water	Analysis Start Date:	30/07/2024
Sample Description:	Old Pit Reservoir (GW)	Analysis End Date:	05/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

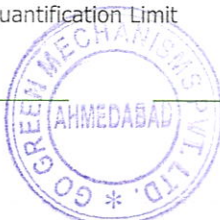
Specification:

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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 05/08/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/1495D/76A/03	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Ground Water	Analysis Start Date:	30/07/2024
Sample Description:	Kurmuda Plant (GW)	Analysis End Date:	05/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

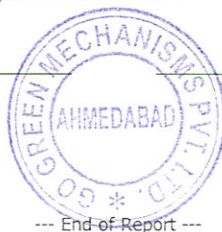
Specification:

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/1495D/76A/04

M/s Moil Limited

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

Reporting Date : 05/08/2024



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1495D/76A/04	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Ground Water	Analysis Start Date:	30/07/2024
Sample Description:	Pond Nr Shiv Mandir (GW)	Analysis End Date:	05/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

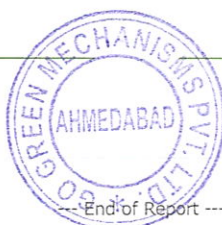
Specification:

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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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1496D/76B/01	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	Syndicate Colony (DW)	Analysis End Date:	06/08/2024
Sample Quantity:	3 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	144.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	39.27	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	30.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	15.55	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.72	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	20.59	mg/L	APHA 23rd Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	228.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	162.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS

AL & PL as per IS 10500.

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

Khushbu
Analyzed By
Khushbu Suthar



Manish
Authorized Signatory
Manish Kumawat

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

Reporting Date : 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/1496D/76B/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Syndicate Colony (DW)
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 27/07/2024
Sample Receipt Date: 29/07/2024
Analysis Start Date: 30/07/2024
Analysis End Date: 06/08/2024
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)	0.45	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	0.90	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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

Khushbu

Analyzed By
Khushbu Suthar



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Manish Kumawat

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1496D/76B/02	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	Pond Near Filter Plant (GW)	Analysis End Date:	06/08/2024
Sample Quantity:	3 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	154.0	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	41.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	26.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.73	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.89	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.76	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	18.54	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	256.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

Analyzed By
Khushbu Suthar



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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1496D/76B/02
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: Pond Near Filter Plant (GW)

Sampling Date: 27/07/2024
Sample Receipt Date: 29/07/2024
Analysis Start Date: 30/07/2024
Analysis End Date: 06/08/2024

Sample Quantity: 3 L
Sample Condition: Satisfactory

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

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AI	PI
12	Total Hardness as CaCO ₃	189.0	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	0.0	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.96	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL as per IS 10500.

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1496D/76B/03	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Near Siren Room Dump	Analysis start- End Date:	30/07/2024-06/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

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

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

Khushbu
Analyzed By
Khushbu Suthar



Manish
Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1496D/76B/03	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Near Siren Room Dump	Analysis start- End Date:	30/07/2024-06/08/2024
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1496D/76B/04	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Syndicate Colony	Analysis start- End Date:	30/07/2024-06/08/2024
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)	60.75	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	24.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.38	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.60	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.02	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	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/1496D/76B/04

Reporting Date: 07/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1496D/76B/04	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Syndicate Colony	Analysis start- End Date:	30/07/2024-06/08/2024
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	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.6	m/s	GGMPL/SOP/MP/01:2020	NS

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

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End of Report ---

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

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

Sample By Laboratory Representative

Sampling Date:

27/07/2024

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1496D/7 6B/05A	Foot Wall Haulage Road	Day Time	dB(A)Leq	IS 4758	58.9	-
2	Lab/PN/1496D/7 6B/05B	Near Oiren Room Dump	Day Time	dB(A)Leq	IS 4758	65.4	-

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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 05/08/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/1497D/76B/01	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	Drinking Water of Syndicate Colony (DW)	Analysis End Date:	05/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

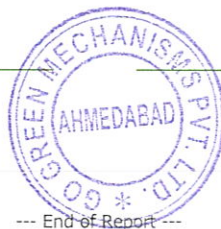
Specification:

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

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/08/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/1497D/76B/02	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Ground Water	Analysis Start Date:	30/07/2024
Sample Description:	Pond Near Filter Plant (GW)	Analysis End Date:	05/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

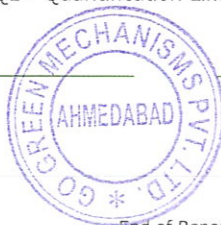
Specification:

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

--- End of Report ---

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 06/08/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1498D/76C/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W Of Mine Pit Discharge

Sampling Date: 27/07/2024
Sample Receipt Date: 29/07/2024
Analysis Start Date: 29/07/2024
Analysis End Date: 05/08/2024

Sample Quantity: 3 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	162.00	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	68.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.61	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	22.11	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.65	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	46.84	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	368.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	15.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

Analyzed By
Kinjal Damor



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Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 06/08/2024



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1498D/76C/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: G.W Of Mine Pit Discharge
Sample Quantity: 3 L
Sample Condition: Satisfactory

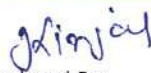
Sampling Date: 27/07/2024
Sample Receipt Date: 29/07/2024
Analysis Start Date: 29/07/2024
Analysis End Date: 05/08/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	231.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.66	mg/L	APHA 23rd Edn 4500 NO ₃ B	45	No relaxation

AL & PL As Per IS 10500.

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


Analyzed By
Kinjal Damor




Authorized Signatory
Manish Kumawat

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 06/08/2024

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/1498D/76C/02	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	29/07/2024
Sample Description:	G.W of Piezometer Borewell	Analysis End Date:	05/08/2024
Sample Quantity:	3 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	173.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	54.50	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	62.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.53	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	23.32	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.79	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	40.89	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	339.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS
12	Total Hardness as CaCO ₃	232.00	mg/L	APHA 23rd Edn 2340 C	200	600

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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 06/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1498D/76C/02	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	29/07/2024
Sample Description:	G.W of Piezometer Borewell	Analysis End Date:	05/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

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

ghimjer
Analyzed By
Kinjal Damor



--- End of Report ---

Manish Kumawat
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CERTIFICATE OF ANALYSIS

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

Reporting Date: 06/08/2024

M/s Moil Limited

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

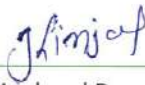


SAMPLE DETAILS

Lab ID:	Lab/PN/1498D/76C/03	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Near Haulage Road viewpoint	Analysis start- End Date:	29/07/2024-05/08/2024
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)	56.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	22.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.87	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.55	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.02	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.47	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 06/08/2024

M/s Moil Limited

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



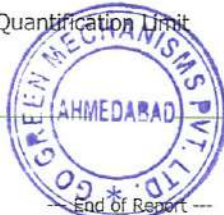
SAMPLE DETAILS

Lab ID:	Lab/PN/1498D/76C/03	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Near Haulage Road viewpoint	Analysis start- End Date:	29/07/2024-05/08/2024
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	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.4	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 : GGMPL/PN/1498D/76C/04

Reporting Date: 06/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1498D/76C/04	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Near Mine Hospital	Analysis start- End Date:	29/07/2024-05/08/2024
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)	52.98	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	28.74	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.93	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.40	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.47	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	5.65	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 06/08/2024

M/s Moil Limited

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



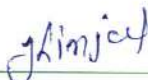
TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1498D/76C/04	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	27/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Near Mine Hospital	Analysis start- End Date:	29/07/2024-05/08/2024
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	57	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	0.00108	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	2.4	m/s	GGMPL/SOP/MP/01:2020	NS

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


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CERTIFICATE OF ANALYSIS

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

Reporting Date: 06/08/2024

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: 27/07/2024
Sample Description: Source Noise

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

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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 05/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1499D/76C/01	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Ground Water	Analysis Start Date:	30/07/2024
Sample Description:	Mine Pit Discharge (GW)	Analysis End Date:	05/08/2024
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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 05/08/2024



SAMPLE DETAILS


Lab ID:	Lab/PN/1499D/76C/02	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Ground Water	Analysis Start Date:	30/07/2024
Sample Description:	Piezometer Borewell (GW)	Analysis End Date:	05/08/2024
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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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/08/2024

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/1500D/76D/01	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	D,W of Near Pit Office	Analysis End Date:	06/08/2024
Sample Quantity:	3 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	140.00	mg/L	APHA 23rd Edition (2320 B)	200	600
2	Calcium as Ca	44.08	mg/L	APHA 23rd Edition (3500 Ca B)	75	200
3	Chloride	50.98	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	31.59	mg/L	APHA 23rd Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.95	-	IS 3025 Part 11	6.5 8.5	No Relaxation
8	Sulphate	31.23	mg/L	APHA 23rd Edition (4500 SO ₄ E)	200	400
9	Total Dissolved Solids (TDS)	272.00	mg/L	APHA 23rd Edition (2540 C)	500	2000
10	Total Hardness as CaCO ₃	240.00	mg/L	APHA 23rd Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edition (2130 B):	1	5

AL & PL As Per IS 10500.

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

Analyzed By
Kinjal Damor



Authorized Signatory
Tantan Kumar

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 07/08/2024



SAMPLE DETAILS

Lab ID: Lab/PN/1500D/76D/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: D.W of Near Pit Office
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 27/07/2024
Sample Receipt Date: 29/07/2024
Analysis Start Date: 30/07/2024
Analysis End Date: 06/08/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	BQL (QL=0.1)	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	2.44	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

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Tantan Kumar

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1500D/76D/02	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	30/07/2024-06/08/2024
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)	43.68	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	21.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.61	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.47	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.02	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	5.65	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Kinjal Damor



Authorized Signatory
Tantan Kumar

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1500D/76D/02	Sampling Start Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	28/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	29/07/2024
Sample Description:	Near Pit Office	Analysis start- End Date:	30/07/2024-06/08/2024
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	65	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.1	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Laboratory Representative

Sampling Date:

27/07/2024

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1500D/76D/03A	Near Plt Office	Day Time	dB(A)Loq	IS 1758	63.6	-

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

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Tantan Kumar

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 05/08/2024

M/s Moil Limited

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



SAMPLE DETAILS


Lab ID:	Lab/PN/1501D/76D/01	Sampling Date:	27/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	29/07/2024
Sample Type:	Water	Analysis Start Date:	30/07/2024
Sample Description:	Near Pit Office (DW)	Analysis End Date:	05/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

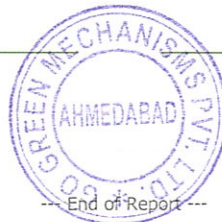
Specification:

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

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/01	Sampling Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/07/2024
Sample Type:	Waste Water	Analysis Start Date:	31/07/2024
Sample Description:	Boiler Water (Inlet) (WW)	Analysis End Date:	06/08/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

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

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

Analyzed By
Kinjal Damor



--- End of Report ---

Authorized Signatory
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/02	Sampling Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/07/2024
Sample Type:	Water	Analysis Start Date:	31/07/2024
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	06/08/2024
Sample Quantity:	4 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	102.00	mg/L	APHA 23rd Edition (2320 B)	200	600	
2	Calcium as Ca	39.67	mg/L	APHA 23rd Edition (3500 Ca B)	75	200	
3	Chloride	24.99	mg/L	IS 3025 -Part 32	250	1000	
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15	
5	Magnesium as Mg	5.83	mg/L	APHA 23rd Edition (3500 Mg B)	30	100	
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable	
7	pH at 25 °C	7.82	-	IS 3025-Part 11	6.5-8.5	No Relaxation	
8	Sulphate	13.85	mg/L	APHA 23rd Edition (4500 SO ₄ E)	200	400	
9	Total Dissolved Solids (TDS)	198.00	mg/L	APHA 23rd Edition (2540 C)	500	2000	
10	Total Hardness as CaCO ₃	123.00	mg/L	APHA 23rd Edition (2340 C)	200	600	
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edition (2540 D)	NS	NS	

AL & PL As Per IS 10500.

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

Kinjal
Analyzed By
Kinjal Damor



Manish
Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/LPN/1508D/76F/02

Reporting Date : 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/02	Sampling Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/07/2024
Sample Type:	Water	Analysis Start Date:	31/07/2024
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	06/08/2024
Sample Quantity:	4 L	Sampling Method:	GGMP/LWI/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	GGMP/LSOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMP/LSOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.12	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	1.82	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL As Per IS 10500.

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/03	Sampling Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/07/2024
Sample Type:	Waste Water	Analysis Start Date:	31/07/2024
Sample Description:	Drainage Water (Near Admin Office) (WW)	Analysis End Date:	06/08/2024
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

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

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

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Kinjal Damor



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CERTIFICATE OF ANALYSIS

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

Reporting Date : 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID: Lab/PN/1508D/76F/04
Sample Drawn By: Laboratory Representative
Sample Type: Waste Water
Sample Description: ETP Inlet (WW)

Sampling Date: 28/07/2024
Sample Receipt Date: 30/07/2024
Analysis Start Date: 31/07/2024
Analysis End Date: 06/08/2024

Sample Quantity: 4 L
Sample Condition: Satisfactory

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

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

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/05	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near Admin Office	Analysis start- End Date:	31/07/2024-06/08/2024
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)	56.05	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.32	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.62	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.40	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.96	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	7.06	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.02	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/05	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near Admin Office	Analysis start- End Date:	31/07/2024-06/08/2024
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	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	67	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/06	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near infront of MCC Room	Analysis start- End Date:	31/07/2024-06/08/2024
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)	54.12	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.16	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.58	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.37	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.22	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	5.65	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/06	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near infront of MCC Room	Analysis start- End Date:	31/07/2024-06/08/2024
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	66	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/07	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near Shift incharge Room	Analysis start- End Date:	31/07/2024-06/08/2024
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)	53.02	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.10	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.89	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	13.15	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

Analyzed By
Kinjaal Damor



Authorized Signatory
Manish Kumawat

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/07	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near Shift incharge Room	Analysis start- End Date:	31/07/2024-06/08/2024
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	28	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	67	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/08	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near Mine Workshop	Analysis start- End Date:	31/07/2024-06/08/2024
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)	51.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.56	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.09	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.84	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	5.65	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
9	Carbon Monoxide (CO)	1.01	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/08	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near Mine Workshop	Analysis start- End Date:	31/07/2024-06/08/2024
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	25	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	68	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.2	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1508D/76F/09	Sampling Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/07/2024
Sample Type:	Stack	Analysis start- End Date:	31/07/2024-06/08/2024
Stack Height & Dia (m):	30 & 0.5	Stack Temperature (°C):	123
Stack Attached To:	CFB Boiler	Stack gas velocity (m/sec):	11.01
Fuel Used:	Coal	Volume of Air Sampled in NM3:	0.8541

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	18.93	ppm	IS 11255- Part 7	-
2	Particulate Matter	40.04	mg/Nm ³	IS 11255- Part 1	-
3	Sulphur Dioxides	13.02	ppm	IS 11255- Part 2	-

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


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--- End of Report ---

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

Reporting Date: 07/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Laboratory Representative

Sampling Date: 28/07/2024
Sample Description: Source Noise

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

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

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

M/s Moil Limited

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

Reporting Date : 06/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1509D/76F/01	Sampling Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/07/2024
Sample Type:	Water	Analysis Start Date:	31/07/2024
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	06/08/2024
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



--- End of Report ---

Authorized Signatory
Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1510D/76E/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: At Siding Office (DW)
Sample Quantity: 3 L
Sample Condition: Satisfactory

Sampling Date: 28/07/2024
Sample Receipt Date: 30/07/2024
Analysis Start Date: 30/07/2024
Analysis End Date: 07/08/2024
Sampling Method: GGMPL/WI/27A
Packing: Sealed

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

AL & PL as per IS 10500.

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

Khushbu
Analyzed By
Khushbu Suthar



Manish
Authorized Signatory
Manish Kumawat

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

Reporting Date : 08/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID: Lab/PN/1510D/76E/01
Sample Drawn By: Laboratory Representative
Sample Type: Water
Sample Description: At Siding Office (DW)

Sampling Date: 28/07/2024
Sample Receipt Date: 30/07/2024
Analysis Start Date: 30/07/2024
Analysis End Date: 07/08/2024

Sample Quantity: 3 L
Sample Condition: Satisfactory

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

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Turbidity	BQL (QL=0.1)	NTU	APIA 23rd Edition (2130 D):	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)	0.73	mg/L	APHA 23rd Edn 4500 F D	1	1.5
16	Nitrate	0.98	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

Khushbu

Analyzed By
Khushbu Suthar



Manish

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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/1510D/76E/02

Reporting Date : 08/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1510D/76E/02	Sampling Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/07/2024
Sample Type:	Ground Water	Analysis Start Date:	30/07/2024
Sample Description:	Borewell Water Near Balapur Hamesha Camp (GW)	Analysis End Date:	07/08/2024
Sample Quantity:	3 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	174.00	mg/L	APHA 23rd Edn 2320 B	200	600
2	Calcium as Ca	44.88	mg/L	APHA 23rd Edn 3500 Ca B	75	200
3	Chloride	38.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.65	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.41	mg/L	APHA 23rd Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.75	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	28.98	mg/L	APHA 23rd Edn 4500 SO ₄ E	200	400
10	Total Dissolved Solids (TDS)	296.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

Khushbu

Analyzed By
Khushbu Suthar



Manish Kumawat

Authorized Signatory
Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date : 08/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1510D/76E/02	Sampling Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/07/2024
Sample Type:	Ground Water	Analysis Start Date:	30/07/2024
Sample Description:	Borewell Water Near Balapur Hamesha Camp (GW)	Analysis End Date:	07/08/2024
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO ₃	196.00	mg/L	APHA 23rd Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.31	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL as per IS 10500.

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

Khushbu

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1510D/76E/03	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near Siding Office	Analysis start- End Date:	30/07/2024-07/08/2024
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	62.38	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	25.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.39	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	22.51	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.27	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.47	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.03	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6

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

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Khushbu Suthar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1510D/76E/03	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near Siding Office	Analysis start- End Date:	30/07/2024-07/08/2024
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	27	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	67	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.4	m/s	GGMPL/SOP/MP/01:2020	NS

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/08/2024

M/s Moil Limited

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



TC-7073

SAMPLE DETAILS

Lab ID:	Lab/PN/1510D/76E/04	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near Loading Area	Analysis start- End Date:	30/07/2024-07/08/2024
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)	65.47	µg/m ³	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	29.57	µg/m ³	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO ₂)	16.30	µg/m ³	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO ₂)	26.08	µg/m ³	IS 5182- Part 6	80
5	Ozone (O ₃)	14.09	µg/m ³	IS 5182- Part 9	180
6	Ammonia (NH ₃)	12.71	µg/m 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)	1.05	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

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

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Lab ID:	Lab/PN/1510D/76E/04	Sampling Start Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sampling End Date:	29/07/2024
Sample Type:	Ambient Air	Sample Receipt Date:	30/07/2024
Sample Description:	Near Loading Area	Analysis start- End Date:	30/07/2024-07/08/2024
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	26	°C	GGMPL/SOP/MP/01	NS
13	Relative Humidity	67	%	GGMPL/SOP/MP/01	NS
14	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020	NS
15	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
16	Wind Speed	3.4	m/s	GGMPL/SOP/MP/01:2020	NS

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CERTIFICATE OF ANALYSIS

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

Reporting Date: 08/08/2024

M/s Moil Limited

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



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

28/07/2024

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/1510D/76E/05A	Near Siding Office	Day Time	dB(A)Leq	IS 4758	58.9	-
2	Lab/PN/1510D/76E/05B	Near Loading Area	Day Time	dB(A)Leq	IS 4758	62.4	-

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

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 06/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1511D/76E/01	Sampling Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/07/2024
Sample Type:	Water	Analysis Start Date:	31/07/2024
Sample Description:	Railway Siding office (DW)	Analysis End Date:	06/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/W1/27A
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



--- End of Report ---


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Dr. Haragobinda Srichandan

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CERTIFICATE OF ANALYSIS

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

M/s Moil Limited

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

Reporting Date : 06/08/2024



SAMPLE DETAILS

Lab ID:	Lab/PN/1511D/76E/02	Sampling Date:	28/07/2024
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	30/07/2024
Sample Type:	Ground Water	Analysis Start Date:	31/07/2024
Sample Description:	Borewell Water near Balapur Hamesha Camp (GW)	Analysis End Date:	06/08/2024
Sample Quantity:	500 ml	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

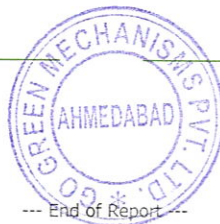
Specification:

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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