

## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/901C/76A/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS


Lab ID:	Lab/PN/901C/76A/V2/01	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Nr Workshop Borewell (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.34	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	150.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	41.68	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	33.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.35	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	19.68	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	23.21	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	272.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	185.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

  
Analyzed By  
Ritu Shah



  
Authorized Signatory  
Manish Kumawat

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### SAMPLE DETAILS

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Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Nr Workshop Borewell (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

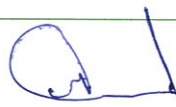
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.73	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

  
Analyzed By  
Ritu Shah



  
Authorized Signatory  
Manish Kumawat

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Report Number: GGMPL/PN/901C/76A/V2/01A

Reporting Date : 16/08/2023

M/s Moil Limited

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

### SAMPLE DETAILS


Lab ID:	Lab/PN/901C/76A/V2/01	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Nr Workshop Borewell (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

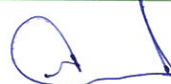
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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## CERTIFICATE OF ANALYSIS

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Reporting Date : 16/08/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Old Pit Reservoir (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.48	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	148.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	45.69	mg/L	APHA 23rd Edn 3500 Ca B	75	100
4	Chloride	30.49	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.25	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	19.92	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	22.18	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	264.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	196.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	8.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

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### SAMPLE DETAILS


Lab ID:	Lab/PN/901C/76A/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Old Pit Reservoir (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

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Reporting Date : 16/08/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Old Pit Reservoir (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

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### Head Office & Lab

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/03	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Kurmuda Plant (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.19	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	128.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	30.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	38.48	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.29	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	15.06	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	28.13	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	268.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	138.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	12.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

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*Ritu Shah*

Analyzed By  
Ritu Shah



*Manish Kumawat*

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### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/03	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Kurmuda Plant (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

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

### SAMPLE DETAILS


Lab ID:	Lab/PN/901C/76A/V2/03	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Kurmuda Plant (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:


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

AL & PL As Per IS 10500.

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

  
Analyzed By  
Ritu Shah



  
Authorized Signatory  
Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/901C/76A/V2/04

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID: Lab/PN/901C/76A/V2/04  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Pond Nr Shiv Mandir (GW)  
Sample Quantity: 3.5L  
Sample Condition: Satisfactory


Sampling Date: 03/08/2023  
Sample Receipt Date: 06/08/2023  
Analysis Start Date: 07/08/2023  
Analysis End Date: 14/08/2023  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.31	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	127.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	27.25	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	54.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.32	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	16.52	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	16.87	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	226.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	136.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	12.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/901C/76A/V2/04

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS


Lab ID:	Lab/PN/901C/76A/V2/04	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Pond Nr Shiv Mandir (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	2.54	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/901C/76A/V2/04A

Reporting Date : 16/08/2023

M/s Moil Limited

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

### SAMPLE DETAILS


Lab ID:	Lab/PN/901C/76A/V2/04	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Pond Nr Shiv Mandir (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500.

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/901C/76A/V2/05

Reporting Date: 16/08/2023

M/s Moil Limited

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



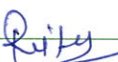
TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/05	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Nr Mine Workshop	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	65.54	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)	11.20	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.55	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.37	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	5.84	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/901C/76A/V2/05

Reporting Date: 16/08/2023

M/s Moil Limited

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

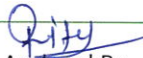


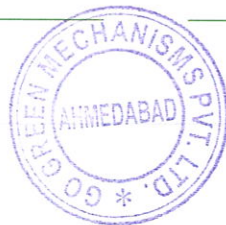
### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/05	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Nr Mine Workshop	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	54	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/901C/76A/V2/06

Reporting Date: 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/06	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Nr Railway Station	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.31	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.82	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.05	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.07	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.05	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	7.18	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)	1.11	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
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/PN/901C/76A/V2/06

Reporting Date: 16/08/2023

M/s Moil Limited

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




TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/06	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Nr Railway Station	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	58	%	GGMP/L/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	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/901C/76A/V2/07

Reporting Date: 16/08/2023

M/s Moil Limited

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

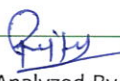


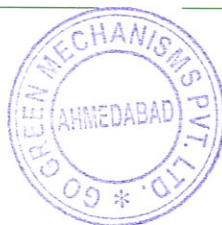
### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/07	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Kurmuda Grampanchayat Office	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	57.14	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	11.86	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.87	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.99	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	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)	1.11	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

  
Analyzed By  
Ritu Shah



  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/901C/76A/V2/07

Reporting Date: 16/08/2023

M/s Moil Limited

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




TC-7073

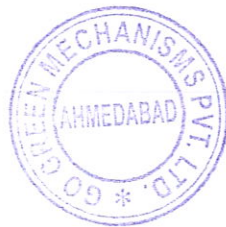
### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/07	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Kurmuda Grampanchayat Office	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	53	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/901C/76A/V2/08

Reporting Date: 16/08/2023

M/s Moil Limited

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

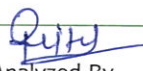


### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/08	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Nr Mine Magazine	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.80	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.24	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.09	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	16.15	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.05	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)	1.16	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
12	Temperature	30	°C	GGMPL/SOP/MP/01	NS

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/901C/76A/V2/08

Reporting Date: 16/08/2023

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/901C/76A/V2/08	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Nr Mine Magazine	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	56	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/901C/76A/V2/09

Reporting Date: 16/08/2023

M/s Moil Limited

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




### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 03/08/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/901C/76 A/V2/09A	Near Mine Workshop	Day Time	dB(A)Leq	IS 4758	68.5	75
2	Lab/PN/901C/76 A/V2/09B	Near Haulage Road	Day Time	dB(A)Leq	IS 4758	64.8	75
3	Lab/PN/901C/76 A/V2/09C	Near Crushing & Screening	Day Time	dB(A)Leq	IS 4758	69.5	75
4	Lab/PN/901C/76 A/V2/09D	Near Mine Magazine	Day Time	dB(A)Leq	IS 4758	66.3	75

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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/902C/76B/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/902C/76B/V2/01	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Drinking Water of Syndicate Colony (DW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.36	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	142.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	34.46	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	28.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.29	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	18.46	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	17.66	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	264.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	162.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

*Sachi*

Analyzed By  
Sachi Patel



*Manish Kumawat*

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Manish Kumawat

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Report Number: GGMPL/PN/902C/76B/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/902C/76B/V2/01	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Drinking Water of Syndicate Colony (DW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.46	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

*Sachi*

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Sachi Patel



*Manish*

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Manish Kumawat

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Report Number: GGMPL/PN/902C/76B/V2/01A

Reporting Date : 16/08/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/902C/76B/V2/01	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Drinking Water of Syndicate Colony (DW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

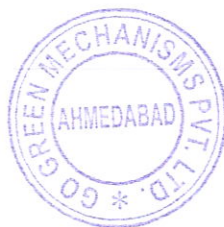
Specification:

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

AL & PL As Per IS 10500.

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

*Sachi*  
Analyzed By  
Sachi Patel



*Manish Kumawat*  
Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/902C/76B/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/902C/76B/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Pond Near Filter Plant (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.42	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	148.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	38.47	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	42.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.27	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.92	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	23.82	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	276.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	178.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

*Sachi*

Analyzed By  
Sachi Patel



*Manish Kumawat*

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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/902C/76B/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/902C/76B/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Pond Near Filter Plant (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.85	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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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/902C/76B/V2/02A

Reporting Date : 16/08/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/902C/76B/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Pond Near Filter Plant (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/902C/76B/V2/03

Reporting Date: 16/08/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/902C/76B/V2/03	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Siren Room Dump	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.72	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.57	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.60	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.04	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	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)	1.11	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/902C/76B/V2/03

Reporting Date: 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

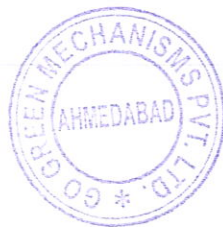
Lab ID:	Lab/PN/902C/76B/V2/03	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Siren Room Dump	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/902C/76B/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/902C/76B/V2/04	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Syndicate Colony	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	67.16	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.79	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	15.35	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	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)	1.16	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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Report Number : GGMPL/PN/902C/76B/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/902C/76B/V2/04	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Syndicate Colony	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

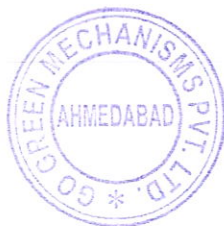
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/LPN/902C/76B/V2/05

Reporting Date: 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

03/08/2023

Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/902C/76 B/V2/05A	Foot Wall Haulage Road	Day Time	dB(A)Leq	IS 4758	64.3	75
2	Lab/PN/902C/76 B/V2/05B	Near Siren Room Dump	Day Time	dB(A)Leq	IS 4758	61.5	75

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/903C/76C/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/903C/76C/V2/01	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Mine Pit Discharge (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.38	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	176.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	47.29	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	62.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	3	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.39	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	19.44	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	33.89	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	342.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	198.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	11.00	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  
Krima Solanki



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/903C/76C/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID: Lab/PN/903C/76C/V2/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Mine Pit Discharge (GW)  
Sample Quantity: 3.5L  
Sample Condition: Satisfactory

Sampling Date: 03/08/2023  
Sample Receipt Date: 06/08/2023  
Analysis Start Date: 07/08/2023  
Analysis End Date: 14/08/2023  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	3.85	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	5.05	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/903C/76C/V2/01A

Reporting Date : 16/08/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/903C/76C/V2/01	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Mine Pit Discharge (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/903C/76C/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/903C/76C/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Piezometer Borewell (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.51	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	196.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	62.52	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	77.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	3	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.54	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	18.47	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	43.54	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	364.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	232.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	13.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/903C/76C/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/903C/76C/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Piezometer Borewell (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	4.52	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	5.38	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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Report Number: GGMPL/PN/903C/76C/V2/02A

Reporting Date : 16/08/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/903C/76C/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Piezometer Borewell (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL as per IS 10500.

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

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Reporting Date: 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/903C/76C/V2/03	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Haulage Road viewpoint	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.39	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	31.66	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	9.08	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.57	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	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)	1.17	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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Reporting Date: 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/903C/76C/V2/03	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Haulage Road viewpoint	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	79	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/903C/76C/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

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



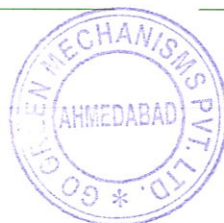
### SAMPLE DETAILS

Lab ID:	Lab/PN/903C/76C/V2/04	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Mine Hospital	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	61.60	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	10.52	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.82	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.49	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/903C/76C/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/903C/76C/V2/04	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Mine Hospital	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	79	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

Analyzed By  
Krima Solanki



Authorized Signatory  
Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/903C/76C/V2/05

Reporting Date: 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

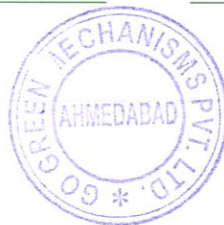
Sampling Instrument : Sound Level Meter  
Sample By : Laboratory Representative

Sampling Date: 03/08/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/903C/76 C/V2/05A	Nr. Haulage Road View Point	Day Time	dB(A)Leq	IS 4758	62.1	75
2	Lab/PN/903C/76 C/V2/05B	Nr. Mine Hospital	Day Time	dB(A)Leq	IS 4758	55.5	75

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

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Krima Solanki



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Manish Kumawat

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/904C/76D/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID: Lab/PN/904C/76D/V2/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Near Pit Office (DW)  
Sample Quantity: 3.5L  
Sample Condition: Satisfactory

Sampling Date: 03/08/2023  
Sample Receipt Date: 06/08/2023  
Analysis Start Date: 07/08/2023  
Analysis End Date: 14/08/2023  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.46	-	IS 3025-Part 11	6.5 to 8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	146.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	48.90	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	66.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.42	mg/L	APHA 23rd Edn 4500 F D	1	1.5
7	Magnesium as Mg	16.04	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	29.58	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	290.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	188.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	9.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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

*Krma Solanki*

Analyzed By  
Krma Solanki



*P. B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/904C/76D/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS


Lab ID:	Lab/PN/904C/76D/V2/01	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Near Pit Office (DW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.58	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No Relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	4.05	mg/L	APHA 23rd Edn 4500 NO3 B	45	No Relaxation

AL & PL as per IS 10500.

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

  
Analyzed By  
Krima Solanki



  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/904C/76D/V2/01A

Reporting Date : 16/08/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID: Lab/PN/904C/76D/V2/01  
Sample Drawn By: Laboratory Representative  
Sample Type: Water  
Sample Description: Near Pit Office (DW)  
Sample Quantity: 3.5L  
Sample Condition: Satisfactory

Sampling Date: 03/08/2023  
Sample Receipt Date: 06/08/2023  
Analysis Start Date: 07/08/2023  
Analysis End Date: 14/08/2023  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Specification:

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

AL & PL as per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/904C/76D/V2/02

Reporting Date: 16/08/2023

M/s Moil Limited

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




TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/904C/76D/V2/02	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Pit Office	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	53.88	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	27.91	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	8.64	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	14.61	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	12.88	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

  
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Krina Solanki



  
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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/904C/76D/V2/02

Reporting Date: 16/08/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/904C/76D/V2/02	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Pit Office	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	80	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5.0	m/s	GGMPL/SOP/MP/01:2020	NS

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

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Krima Solanki



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/904C/76D/V2/03

Reporting Date: 16/08/2023

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: 03/08/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/904C/76D/V2/03	Nr. Pit Office	Day Time	dB(A)Leq	IS 4758	68.8	75

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/905C/76E/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/905C/76E/V2/01	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	At Siding office (DW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.36	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	122.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	43.28	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	16.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.40	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	17.98	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	15.40	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	212.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	148.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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

*Ritu Shah*

Analyzed By  
Ritu Shah



*Manish Kumawat*

Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/905C/76E/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/905C/76E/V2/01	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	At Siding office (DW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	3.76	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/905C/76E/V2/01A

Reporting Date : 16/08/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/905C/76E/V2/01	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	At Siding office (DW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL & PL As Per IS 10500.

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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/905C/76E/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/905C/76E/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Borewell Water near Balapur Hamesha Camp (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.49	-	IS 3025-Part 11	6.5-8.5	No relaxation
2	Alkalinity as CaCO <sub>3</sub>	140.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	53.70	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	34.98	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.49	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	12.63	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	17.45	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	272.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	186.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	10.00	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL & PL As Per IS 10500.

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Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS


Lab ID:	Lab/PN/905C/76E/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Borewell Water near Balapur Hamesha Camp (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

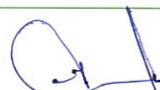
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 23rd Edn 2130 B	1	5
14	Iron as Fe	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.3	No relaxation
15	Manganese as Mn	BQL (QL=0.05)	mg/L	APHA 23rd Edn 3120 B	0.1	0.3
16	Nitrate	0.51	mg/L	APHA 23rd Edn 4500 NO3 B	45	No relaxation

AL & PL As Per IS 10500.

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

  
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Manish Kumawat

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Reporting Date : 16/08/2023

M/s Moil Limited

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

### SAMPLE DETAILS


Lab ID:	Lab/PN/905C/76E/V2/02	Sampling Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	06/08/2023
Sample Type:	Water	Analysis Start Date:	07/08/2023
Sample Description:	Borewell Water near Balapur Hamesha Camp (GW)	Analysis End Date:	14/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

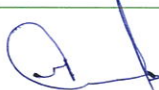
Sr.No	Parameters*	Results	Unit	Test Method	AL	PL
1	Total Coliform (MPN/100ml)	Absent	MPN/100ml	IS 1622	Absent	Absent
2	E.Coli (MPN/100 ml)	Absent	MPN/100ml	IS 1622	Absent	Absent

AL & PL As Per IS 10500.

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Reporting Date: 16/08/2023

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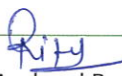


### SAMPLE DETAILS

Lab ID:	Lab/PN/905C/76E/V2/03	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Siding Office	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.84	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.07	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.51	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	17.08	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	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
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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Reporting Date: 16/08/2023

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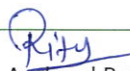
TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/905C/76E/V2/03	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	06/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Siding Office	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/905C/76E/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

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



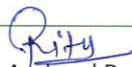
TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/905C/76E/V2/04	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Loading Area	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	60.89	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)	13.32	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.61	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.05	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	11.20	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)	1.11	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

  
Analyzed By  
Ritu Shah



  
Authorized Signatory  
Manish Kumawat

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/905C/76E/V2/04

Reporting Date: 16/08/2023

M/s Moil Limited

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



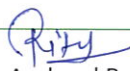
TC-7073

### SAMPLE DETAILS

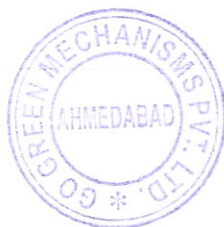
Lab ID:	Lab/PN/905C/76E/V2/04	Sampling Start Date:	03/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	04/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	06/08/2023
Sample Description:	Near Loading Area	Analysis start- End Date:	07/08/2023-14/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

  
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Ritu Shah

  
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Manish Kumawat



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/905C/76E/V2/05

Reporting Date: 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sampling Date:

03/08/2023

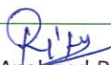
Sample By Laboratory Representative

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/905C/76 E/V2/05A	Nr. Siding Office	Day Time	dB(A)Leq	IS 4758	61.3	75
2	Lab/PN/905C/76 E/V2/05B	Nr. Loading Area	Day Time	dB(A)Leq	IS 4758	62.5	75

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/923C/76F/V2/01

Reporting Date : 16/08/2023

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/01	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Waste Water	Analysis Start Date:	08/08/2023
Sample Description:	Boiler Water (Inlet) (WW)	Analysis End Date:	15/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.35	-	IS 3025- Part 11	-
2	Total Suspended Solids	19.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	75.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	3.47	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	24.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

  
Analyzed By  
Jhanvi Chhasatiya



  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/923C/76F/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/02	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	15/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	pH at 25 °C	7.35	-	IS 3025-Part 11	6.5-8.5	No Relaxation
2	Alkalinity as CaCO <sub>3</sub>	114.00	mg/L	APHA 23rd Edn 2320 B	200	600
3	Calcium as Ca	27.25	mg/L	APHA 23rd Edn 3500 Ca B	75	200
4	Chloride	28.99	mg/L	IS 3025 -Part 32	250	1000
5	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
6	Fluoride (F)	0.11	mg/L	APHA 23rd Edn 4500 F D	1.0	1.5
7	Magnesium as Mg	12.64	mg/L	APHA 23rd Edn 3500 Mg B	30	100
8	Odour	Agreeable	-	IS 3025 Part-5	Agreeable	Agreeable
9	Sulphate	23.21	mg/L	APHA 23rd Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids	196.00	mg/L	APHA 23rd Edn 2540 C	500	2000
11	Total Hardness as CaCO <sub>3</sub>	120.00	mg/L	APHA 23rd Edn 2340 C	200	600
12	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 23rd Edn 2540 D	NS	NS

AL and PL as per IS 10500

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

*Jhanvi*  
Analyzed By  
Jhanvi Chhasatiya



*P.B. Patel*  
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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/923C/76F/V2/02

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/02	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	15/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL and PL as per IS 10500

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



Analyzed By  
Jhanvi Chhasatiya



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Payal Patel

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Report Number: GGMPL/PN/923C/76F/V2/02A

Reporting Date : 16/08/2023

M/s Moil Limited

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

### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/02	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	RO Water Nr. Admin Office (DW)	Analysis End Date:	15/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Specification:

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

AL and PL as per IS 10500

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

  
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Payal Patel

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#### Head Office & Lab

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/923C/76F/V2/03

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/03	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Waste Water	Analysis Start Date:	08/08/2023
Sample Description:	Drainage Water (Near Admin Office) (WW)	Analysis End Date:	15/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.25	-	IS 3025- Part 11	-
2	Total Suspended Solids	24.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	80.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	4.13	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	24.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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

*Jhanvi*

Analyzed By  
Jhanvi Chhasatiya



*P.B. Patel*

Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/923C/76F/V2/04

Reporting Date : 16/08/2023

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/04	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Water	Analysis Start Date:	08/08/2023
Sample Description:	ETP Inlet (WW)	Analysis End Date:	15/08/2023
Sample Quantity:	3.5L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.21	-	IS 3025- Part 11	-
2	Total Suspended Solids	26.00	mg/L	APHA 23rd Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand	70.00	mg/L	APHA 23rd Edn 5220 B	-
5	Dissolved Oxygen	3.20	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	21.00	mg/L	IS 3025- Part 44	-
7	Manganese as Mn	BQL (QL=0.1)	mg/L	APHA 23rd Edn 3120 B	-

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



Analyzed By  
Jhanvi Chhasatiya



Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/923C/76F/V2/05

Reporting Date: 16/08/2023

M/s Moil Limited

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




### SAMPLE DETAILS


Lab ID:	Lab/PN/923C/76F/V2/05	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Admin Office	Analysis start- End Date:	08/08/2023-15/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.96	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	12.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	18.11	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.46	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.06	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.14	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	26	°C	GGMPL/SOP/MP/01	NS

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

  
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Payal Patel

Page No : 1/2

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Reporting Date: 16/08/2023

M/s Moil Limited

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

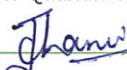


### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/05	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Admin Office	Analysis start- End Date:	08/08/2023-15/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	

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

  
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### Head Office & Lab

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/923C/76F/V2/06

Reporting Date: 16/08/2023

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/06	Sampling Start Date:	04/04/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near infront of MCC Room	Analysis start- End Date:	08/08/2023-15/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	66.25	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	13.03	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	20.31	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	10.06	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

  
Analyzed By  
Jhanvi Chhasatiya



  
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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/923C/76F/V2/06

Reporting Date: 16/08/2023

M/s Moil Limited

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




### SAMPLE DETAILS


Lab ID:	Lab/PN/923C/76F/V2/06	Sampling Start Date:	04/04/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near infront of MCC Room	Analysis start- End Date:	08/08/2023-15/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	58	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	

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

  
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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/923C/76F/V2/07

Reporting Date: 16/08/2023

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/07	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Shift incharge Room	Analysis start- End Date:	08/08/2023-15/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	63.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	35.41	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	15.29	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.25	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	8.62	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
12	Temperature	28	°C	GGMPL/SOP/MP/01	NS

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

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


### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/07	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Shift incharge Room	Analysis start- End Date:	08/08/2023-15/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	59	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	NS

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

*Jhanvi*  
Analyzed By  
Jhanvi Chhasatiya



*P.B. Patel*  
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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/923C/76F/V2/08

Reporting Date: 16/08/2023

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/08	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Mine Workshop	Analysis start- End Date:	08/08/2023-15/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
1	Particulate Matter (PM10)	64.68	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m3	GGMPL/SOP/AA/60 Issue No.02 August 01	60
3	Sulphur Dioxide (SO2)	14.69	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.77	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	BQL (QL=10)	µg/m3	IS 5182- Part 9	100
6	Ammonia (NH3)	12.93	µg/Nm3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Temperature	29	°C	GGMPL/SOP/MP/01	NS

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Jhanvi Chhasatiya



  
Authorized Signatory  
Payal Patel

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




### SAMPLE DETAILS

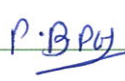
Lab ID:	Lab/PN/923C/76F/V2/08	Sampling Start Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sampling End Date:	05/08/2023
Sample Type:	Ambient Air	Sample Receipt Date:	07/08/2023
Sample Description:	Near Mine Workshop	Analysis start- End Date:	08/08/2023-15/08/2023
Env. Cond.-Sampling:	Ambient Temperature	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	NAAQ Standards
13	Relative Humidity	60	%	GGMPL/SOP/MP/01	NS
14	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1
15	Wind Speed	5	m/s	GGMPL/SOP/MP/01:2020	

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

  
Analyzed By  
Jhanvi Chhasatiya



  
Authorized Signatory  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/923C/76F/V2/09

Reporting Date: 16/08/2023

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: 04/08/2023  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/923C/76 F/V2/09A	Nr. Admin Office	Day Time	dB(A)Leq	IS 4758	58.3	75
2	Lab/PN/923C/76 F/V2/09B	In front of MCC Room	Day Time	dB(A)Leq	IS 4758	61.2	75
3	Lab/PN/923C/76 F/V2/09C	Nr. Shift Incharge Room	Day Time	dB(A)Leq	IS 4758	57.8	75
4	Lab/PN/923C/76 F/V2/09D	Nr. Plant Workshop	Day Time	dB(A)Leq	IS 4758	64..3	75

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/923C/76F/V2/10

Reporting Date: 16/08/2023

M/s Moil Limited

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

(M.S)



### SAMPLE DETAILS

Lab ID:	Lab/PN/923C/76F/V2/10	Sampling Date:	04/08/2023
Sample Drawn By:	Laboratory Representative	Sample Receipt Date:	07/08/2023
Sample Type:	Stack	Analysis start- End Date:	08/08/2023-15/08/2023
Stack Height & Dia (m):	30 & 0.59	Stack Temperature (°C):	130
Stack Attached To:	CFB Boiler	Stack gas velocity (m/sec):	11.46
Fuel Used:	Coal	Volume of Air Sampled in NM3:	0.8677

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Oxides of Nitrogen	15.53	ppm	IS 11255- Part 7	-
2	Particulate Matter	37.39	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
3	Sulphur Dioxides	6.76	ppm	IS 11255- Part 2	-

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*Jhanvi*

*P. B. Patel*

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