

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3539D/76A/01

Reporting Date: 27/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3539D/76A/01	Sampling Start Date:	15/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	16/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	18/01/2025
Sample Description:	Near Railway Station	Analysis start- End Date:	20/01/2025-25/01/2025
Env. Cond.-Sampling:	Temp -18°C & Humidity-52%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	69.44	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	33.33	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.66	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	24.12	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.67	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	16.53	µg/m3	GGMPL/SOP/AA/62	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)	1.18	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

Reviewed & Authorized by  
Tantan Kumar



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Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3539D/76A/02

Reporting Date: 27/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3539D/76A/02	Sampling Start Date:	15/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	16/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	18/01/2025
Sample Description:	Near Mine Workshop	Analysis start- End Date:	20/01/2025-25/01/2025
Env. Cond.-Sampling:	Temp -18°C & Humidity-52%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	66.43	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.28	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	20.91	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.62	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.02	µg/m3	GGMPL/SOP/AA/62	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)	1.27	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per NAAQ Standards.

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3539D/76A/03

Reporting Date: 27/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3539D/76A/03	Sampling Start Date:	15/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	16/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	18/01/2025
Sample Description:	Near Kurmuda Grampanchayat Office	Analysis start- End Date:	20/01/2025-25/01/2025
Env. Cond.-Sampling:	Temp -18°C & Humidity-52%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	71.51	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	39.99	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.18	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	23.11	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.67	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.39	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.10	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per NAAQ Standards.

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3539D/76A/04

Reporting Date: 27/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3539D/76A/04	Sampling Start Date:	15/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	16/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	18/01/2025
Sample Description:	Near Mine Manganese	Analysis start- End Date:	20/01/2025-25/01/2025
Env. Cond.-Sampling:	Temp -18°C & Humidity-52%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	69.42	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.99	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.68	µg/m3	IS 5182-Part 2	80
4	Oxides of Nitrogen	25.74	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.20	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1

Norms AS Per NAAQ Standards.

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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3539D/76A/06

Reporting Date : 27/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3539D/76A/06	Sampling Date:	16/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	18/01/2025
Sample Type:	Ground Water	Analysis Start Date:	20/01/2025
Sample Description:	Nr. workshop (Borewell water)	Analysis End Date:	25/01/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	183.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	40.08	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	52.48	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.47	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.51	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.62	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	22.78	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	327.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	6.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	205.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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

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Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3539D/76A/06

M/s Moil Limited

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

Reporting Date : 27/01/2025



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3539D/76A/06	Sampling Date:	16/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	18/01/2025
Sample Type:	Ground Water	Analysis Start Date:	20/01/2025
Sample Description:	Nr. workshop (Borewell water)	Analysis End Date:	25/01/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.12	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

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Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3539D/76A/07

Reporting Date : 27/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3539D/76A/07	Sampling Date:	16/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	18/01/2025
Sample Type:	Ground Water	Analysis Start Date:	20/01/2025
Sample Description:	OLD Pit Reservoir	Analysis End Date:	25/01/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed


Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	189.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	46.49	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	53.98	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.43	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.06	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.70	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	25.14	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	340.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	215.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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



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Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3539D/76A/07

Reporting Date : 27/01/2025

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/3539D/76A/07  
Sample Drawn By: Maulik Prajapati  
Sample Type: Ground Water  
Sample Description: OLD Pit Reservoir  
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

Sampling Date: 16/01/2025  
Sample Receipt Date: 18/01/2025  
Analysis Start Date: 20/01/2025  
Analysis End Date: 25/01/2025  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.67	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

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Tantan kumar & Dr. Haragobinda Srichandan



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3539D/76A/08

M/s Moil Limited

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

Reporting Date : 27/01/2025



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3539D/76A/08	Sampling Date:	16/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	18/01/2025
Sample Type:	Ground Water	Analysis Start Date:	20/01/2025
Sample Description:	Nr. Kurmuda Plant (Borewell water)	Analysis End Date:	25/01/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	145.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	39.68	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	40.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.49	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	24.30	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.79	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	17.55	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	278.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	9.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	199.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3539D/76A/08

M/s Moil Limited

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

Reporting Date : 27/01/2025



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3539D/76A/08	Sampling Date:	16/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	18/01/2025
Sample Type:	Ground Water	Analysis Start Date:	20/01/2025
Sample Description:	Nr. Kurmuda Plant (Borewell water)	Analysis End Date:	25/01/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.11	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

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Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3539D/76A/09

Reporting Date : 27/01/2025

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/3539D/76A/09  
Sample Drawn By: Maulik Prajapati  
Sample Type: Ground Water  
Sample Description: Nr. SHiv Mandir Pond  
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

Sampling Date: 16/01/2025  
Sample Receipt Date: 18/01/2025  
Analysis Start Date: 20/01/2025  
Analysis End Date: 25/01/2025  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	110.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	27.25	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	38.49	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.36	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.65	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.25	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	17.05	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	225.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	153.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3539D/76A/09

Reporting Date : 27/01/2025

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/3539D/76A/09  
Sample Drawn By: Maulik Prajapati  
Sample Type: Ground Water  
Sample Description: Nr. SHiv Mandir Pond  
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

Sampling Date: 16/01/2025  
Sample Receipt Date: 18/01/2025  
Analysis Start Date: 20/01/2025  
Analysis End Date: 25/01/2025  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.87	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3540D/76B/01

Reporting Date: 28/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3540D/76B/01	Sampling Start Date:	15/01/2024
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	16/01/2024
Sample Type:	Ambient Air	Sample Receipt Date:	18/01/2025
Sample Description:	Near Siren Room Dump	Analysis start- End Date:	20/01/2025-27/01/2025
Env. Cond.-Sampling:	Tem-23°C/ Humidity-48%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	74.45	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	34.16	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.99	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	27.44	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	17.73	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	µg/m3	GGMPL/SOP/AA/62	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	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms as per NAAQ Standards.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3540D/76B/02

Reporting Date: 28/01/2025

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/3540D/76B/02	Sampling Start Date:	15/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	16/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	18/01/2025
Sample Description:	Near Syndicate Colony	Analysis start- End Date:	20/01/2025-27/01/2025
Env. Cond.-Sampling:	Tem-23°C/ Humidity-48%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.28	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	30.41	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	13.60	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.00	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.90	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.02	µg/m3	GGMPL/SOP/AA/62	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)	0.72	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	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms as per NAAQ Standards.

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

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Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3540D/76B/04

Reporting Date : 28/01/2025

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/3540D/76B/04  
Sample Drawn By: Maulik Prajapati  
Sample Type: Ground Water  
Sample Description: Nr. Filter Plant  
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

Sampling Date: 16/01/2025  
Sample Receipt Date: 18/01/2025  
Analysis Start Date: 20/01/2025  
Analysis End Date: 27/01/2025  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	149.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	41.28	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	36.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.60	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	20.90	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.53	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	16.76	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	263.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	189.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL as per IS 10500

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

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Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3540D/76B/04

M/s Moil Limited

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

Reporting Date : 28/01/2025



### SAMPLE DETAILS

Lab ID: Lab/PN/3540D/76B/04  
Sample Drawn By: Maulik Prajapati  
Sample Type: Ground Water  
Sample Description: Nr. Filter Plant  
Sample Quantity: 3.5 L  
Sample Condition: Satisfactory

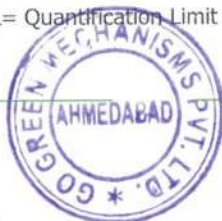
Sampling Date: 16/01/2025  
Sample Receipt Date: 18/01/2025  
Analysis Start Date: 20/01/2025  
Analysis End Date: 27/01/2025  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	0.73	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3540D/76B/05

Reporting Date : 28/01/2025

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/3540D/76B/05	Sampling Date:	16/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	18/01/2025
Sample Type:	Drinking Water	Analysis Start Date:	20/01/2025
Sample Description:	Syndicate Colony	Analysis End Date:	27/01/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	134.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	40.48	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	37.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	15.07	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.63	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	15.38	mg/L	APHA 24th Edition (4500 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	243.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	163.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B):	1	5

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/3540D/76B/05

M/s Moil Limited

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

Reporting Date : 28/01/2025



### SAMPLE DETAILS

Lab ID:	Lab/PN/3540D/76B/05	Sampling Date:	16/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	18/01/2025
Sample Type:	Drinking Water	Analysis Start Date:	20/01/2025
Sample Description:	Syndicate Colony	Analysis End Date:	27/01/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.48	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	0.61	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL as per IS 10500

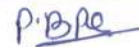
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3541D/76C/01

Reporting Date: 28/01/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

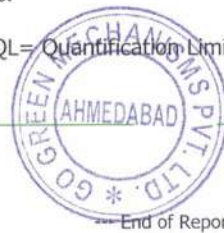
Lab ID:	Lab/PN/3541D/76C/01	Sampling Start Date:	15/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	16/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	18/01/2025
Sample Description:	Near Haulage Road View Point	Analysis start- End Date:	20/01/2025-27/01/2025
Env. Cond.-Sampling:	Temp - 24°C & Humidity - 54%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	65.29	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)	15.23	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.09	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	10.39	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	8.26	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.06	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms as per National Ambient Air Quality Standards.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3541D/76C/02

Reporting Date: 28/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3541D/76C/02	Sampling Start Date:	15/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	16/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	18/01/2025
Sample Description:	Near Mine Hospital	Analysis start- End Date:	20/01/2025-27/01/2025
Env. Cond.-Sampling:	Temp - 24°C & Humidity - 56%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	64.49	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)	12.47	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	19.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.61	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.64	µg/m3	GGMPL/SOP/AA/62 Issue No.02 August 01	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.00	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	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms as per National Ambient Air Quality Standards.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3541D/76C/04

Reporting Date : 28/01/2025

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/3541D/76C/04	Sampling Date:	16/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	18/01/2025
Sample Type:	Ground Water	Analysis Start Date:	20/01/2025
Sample Description:	Nr. Mine Pit Discharge (Borewell water)	Analysis End Date:	27/01/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	185.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	66.53	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	64.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.83	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	25.27	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.56	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	54.82	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	380.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	20.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	270.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500

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

*[Signature]*

Reviewed & Authorized by  
Tantan kumar & Dr. Haragobinda Srichandan



*[Signature]*

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Payal Patel

Page No : 1/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3541D/76C/04

Reporting Date : 28/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3541D/76C/04	Sampling Date:	16/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	18/01/2025
Sample Type:	Ground Water	Analysis Start Date:	20/01/2025
Sample Description:	Nr. Mine Pit Discharge (Borewell water)	Analysis End Date:	27/01/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	0.56	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	No Relaxation
16	Nitrate	3.09	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500

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

*HR*

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Tantan kumar & Dr. Haragobinda Srichandan



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*P. Patel*

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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3541D/76C/05

Reporting Date : 28/01/2025

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/3541D/76C/05	Sampling Date:	16/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	18/01/2025
Sample Type:	Ground Water	Analysis Start Date:	20/01/2025
Sample Description:	Piezometer Borewell	Analysis End Date:	27/01/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	185.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	62.52	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	75.97	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.76	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	31.59	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.67	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	48.90	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	396.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	17.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	286.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL As Per IS 10500

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

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Tantan kumar & Dr. Haragobinda Srichandan



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Report Number: GGMPL/PN/3541D/76C/05

M/s Moil Limited

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

Reporting Date : 28/01/2025



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3541D/76C/05	Sampling Date:	16/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	18/01/2025
Sample Type:	Ground Water	Analysis Start Date:	20/01/2025
Sample Description:	Piezometer Borewell	Analysis End Date:	27/01/2025
Sample Quantity:	3.5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	1.89	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	4.30	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL As Per IS 10500

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



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3554D/76D/01

Reporting Date: 28/01/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

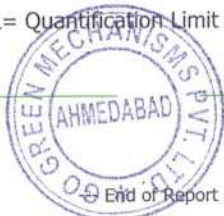
Lab ID:	Lab/PN/3554D/76D/01	Sampling Start Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/01/2025
Sample Description:	Near Pit Office	Analysis start- End Date:	21/01/2025-27/01/2025
Env. Cond.-Sampling:	Temp - 25°C & Humidity - 58%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	64.39	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.08	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.24	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	21.61	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	11.00	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	9.64	µg/m3	GGMPL/SOP/AA/62	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	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms as per National Ambient Air Quality Standards.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3554D/76D/02

Reporting Date: 28/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Maulik Prajapati

Sampling Date: 17/01/2025  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3554D/76D/02A	Nr Pit Office	Day Time	dB(A)Leq	IS 4758	62.4	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3554D/76D/03

Reporting Date : 28/01/2025

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/3554D/76D/03	Sampling Date:	18/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/01/2025
Sample Type:	Drinking Water	Analysis Start Date:	21/01/2025
Sample Description:	Near Pit Office	Analysis End Date:	27/01/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	176.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	41.28	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	40.48	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	26.00	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.58	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	26.26	mg/L	APHA 24th Edition (4500 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	310.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	210.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	12.00	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	1.15	NTU	APHA 24th Edition (2130 B):	1	5

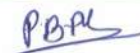
AL & PL As Per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3554D/76D/03

M/s Moil Limited

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

Reporting Date : 28/01/2025



### SAMPLE DETAILS

Lab ID: Lab/PN/3554D/76D/03  
Sample Drawn By: Maulik Prajapati  
Sample Type: Drinking Water  
Sample Description: Near Pit Office  
Sample Quantity: 4 L  
Sample Condition: Satisfactory

Sampling Date: 18/01/2025  
Sample Receipt Date: 20/01/2025  
Analysis Start Date: 21/01/2025  
Analysis End Date: 27/01/2025  
Sampling Method: GGMPL/WI/27A  
Packing: Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.3	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.51	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	2.81	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL As Per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3555D/76E/01

Reporting Date: 28/01/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3555D/76E/01	Sampling Start Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/01/2025
Sample Description:	Near Sinding Office	Analysis start- End Date:	21/01/2025-27/01/2025
Env. Cond.-Sampling:	Tem-25°C/ Humidity-58%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	70.54	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.66	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	18.01	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.95	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	18.96	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	µg/m3	GGMPL/SOP/AA/62	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	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3555D/76E/02

Reporting Date: 28/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3555D/76E/02	Sampling Start Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/01/2025
Sample Description:	Near Loading Area	Analysis start- End Date:	21/01/2025-27/01/2025
Env. Cond.-Sampling:	Tem-25°C/ Humidity-58%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	67.95	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	16.67	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	24.16	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	16.82	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	11.02	µg/m3	GGMPL/SOP/AA/62	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	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3555D/76E/03

Reporting Date: 28/01/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Sampling Instrument : Sound Level Meter

Sample By Maulik Prajapati

Sampling Date:

17/01/2025

Sample Description:

Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3555D/76E/03A	Near Siding Office	Day Time	dB(A)Leq	IS 4758	66.4	-
2	Lab/PN/3555D/76E/03B	Near Loading Area	Day Time	dB(A)Leq	IS 4758	65.9	-

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3555D/76E/04

M/s Moil Limited

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

Reporting Date : 28/01/2025



### SAMPLE DETAILS

Lab ID:	Lab/PN/3555D/76E/04	Sampling Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/01/2025
Sample Type:	Drinking Water	Analysis Start Date:	21/01/2025
Sample Description:	At Siding Office	Analysis End Date:	27/01/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27B
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	76.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	36.07	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	26.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	7.05	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.52	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	18.54	mg/L	APHA 24th Edition (4500 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	175.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	119.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B):	1	5

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: GGMP/L/PN/3555D/76E/04

Reporting Date : 28/01/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3555D/76E/04	Sampling Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/01/2025
Sample Type:	Drinking Water	Analysis Start Date:	21/01/2025
Sample Description:	At Siding Office	Analysis End Date:	27/01/2025
Sample Quantity:	4 L	Sampling Method:	GGMP/L/WI/27B
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W & WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMP/L/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.63	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	0.81	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL as per IS 10500.

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

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Report Number: GGMPL/PN/3555D/76E/05

Reporting Date : 28/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3555D/76E/05	Sampling Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/01/2025
Sample Type:	Ground Water	Analysis Start Date:	21/01/2025
Sample Description:	Near Balapur Hamesha Camp (Borewell Water)	Analysis End Date:	27/01/2025
Sample Quantity:	4 L	Sampling Method:	CGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	136.00	mg/L	APIA 24th Edn 2320 D	200	600
2	Calcium as Ca	38.48	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	34.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.53	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	16.04	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.59	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	24.65	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	253.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edn 2540 D	NS	NS

AL & PL as per IS 10500.

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3555D/76E/05

M/s Moil Limited

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

Reporting Date : 28/01/2025



### SAMPLE DETAILS

Lab ID:	Lab/PN/3555D/76E/05	Sampling Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/01/2025
Sample Type:	Ground Water	Analysis Start Date:	21/01/2025
Sample Description:	Near Balapur Hamesha Camp (Borewell Water)	Analysis End Date:	27/01/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
12	Total Hardness as CaCO <sub>3</sub>	162.00	mg/L	APHA 24th Edn 2340 C	200	600
13	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.20	mg/L	APHA 24th Edn 4500 NO <sub>3</sub> B	45	No relaxation
17	Total coliform	Absent	Per 100ml	APHA 9221 B 24th Edition	Absent	Absent
18	E. coli	Absent	Per 100ml	APHA 9221 G 24th Edition	Absent	Absent

AL & PL as per IS 10500.

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

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Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by  
Payal Patel

Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3555D/76E/07

Reporting Date: 28.01.2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

Lab ID	: Lab/PN/3555D/76E/07	Sampling Start Date	: 17-01-2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18-01-2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20-01-2025
Sample Location	: Near Loading Area		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	1.30	m/n	GGMP/L/601/MI/01
2	Relative Humidity	58.0	%	GGMP/L/SOP/MP/01
3	Rainfall	0.0	mm	GGMP/L/SOP/MP/01:2020
4	Temperature	25.0	°C	GGMP/L/SOP/MP/01

Wind Direction= NE

  
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 Tantan Kumar



  
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---End of Report---

Page 1 of 1

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3556D/76F/01

Reporting Date: 28/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3556D/76F/01	Sampling Start Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/01/2025
Sample Description:	Near Admin Office	Analysis start- End Date:	21/01/2025-27/01/2025
Env. Cond.-Sampling:	Temp -24°C & Humidity-55%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	68.79	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.05	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.58	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.86	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.06	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	13.77	µg/m3	GGMPL/SOP/AA/62	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)	0.98	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	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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Tantan Kumar



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3556D/76F/02

Reporting Date: 28/01/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3556D/76F/02	Sampling Start Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/01/2025
Sample Description:	Near Infront Of MCC Room	Analysis start- End Date:	21/01/2025-27/01/2025
Env. Cond.-Sampling:	Temp -24°C & Humidity-55%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	64.66	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	32.91	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	14.15	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	25.09	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.98	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.39	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.02	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3556D/76F/03

Reporting Date: 28/01/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3556D/76F/03	Sampling Start Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/01/2025
Sample Description:	Near Shift Incharge Room	Analysis start- End Date:	21/01/2025-27/01/2025
Env. Cond.-Sampling:	Temp -24°C & Humidity-55%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	63.82	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	37.07	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	15.54	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	23.00	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	14.98	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.39	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.01	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/3556D/76F/04

Reporting Date: 28/01/2025

M/s Moil Limited

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



### SAMPLE DETAILS

Lab ID:	Lab/PN/3556D/76F/04	Sampling Start Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sampling End Date:	18/01/2025
Sample Type:	Ambient Air	Sample Receipt Date:	20/01/2025
Sample Description:	Near Mine Wokshop	Analysis start- End Date:	21/01/2025-27/01/2025
Env. Cond.-Sampling:	Temp -24°C & Humidity-55%	Total Sampling hours:	24
Env. Cond.-Sample Receipt:	Satisfactory	Env. Cond.-Testing:	25±5°C

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter (PM10)	76.33	µg/m3	IS 5182- Part 23	100
2	Particulate Matter (PM2.5)	36.24	µg/m3	GGMPL/SOP/AA/60	60
3	Sulphur Dioxide (SO2)	17.48	µg/m3	IS 5182-Part 2	80
4	Nitrogen Dioxide (NO2)	26.81	µg/m3	IS 5182- Part 6	80
5	Ozone (O3)	15.89	µg/m3	IS 5182- Part 9	180
6	Ammonia (NH3)	12.39	µg/m3	GGMPL/SOP/AA/62	400
7	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
8	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	Is 5182- Part 12	1
9	Carbon Monoxide (CO)	1.04	mg/m3	IS 5182- Part 10	4
10	Nickel as Ni	BQL (QL=5)	ng/m3	USEPA Method IO 3.4	20
11	Arsenic as As	BQL (QL=1)	ng/m3	USEPA Method IO 3.4	6
12	Lead	BQL (QL=0.001)	µg/m3	USEPA Method IO 3.4	1

Norms AS Per NAAQ Standards.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3556D/76F/05

Reporting Date: 25/01/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3556D/76F/05	Sampling Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/01/2025
Sample Type:	Stack Emission	Analysis start- End Date:	21/01/2025-24/01/2025
Stack Height & Dia (m):	30 & 0.5	Stack Temperature (°C):	125
Stack Attached To:	CFB Boiler	Stack gas velocity (m/sec):	11.05
Fuel Used:	Coal	Volume of Air Sampled in NM3:	0.8781

Sr.No	Parameters	Results	Unit	Test Method	Norms
1	Particulate Matter	51.36	mg/Nm <sup>3</sup>	IS 11255- Part 1	-
2	Sulphur Dioxides	70.87	ppm	IS 11255- Part 2	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3556D/76F/06

Reporting Date: 25/01/2025

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 Maulik Prajapati

Sampling Date: 17/01/2025  
Sample Description: Source Noise

Sr.No	Lab Id	Location	Time	Unit	Test Method	Reading	Norms
1	Lab/PN/3556D/7 6F/06A	Near Admin Office	Day Time	dB(A)Leq	IS 4758	59.1	-
2	Lab/PN/3556D/7 6F/06B	Near Infront Of MCC Room	Day Time	dB(A)Leq	IS 4758	64.9	-
3	Lab/PN/3556D/7 6F/06C	Near Shift Incharge Room	Day Time	dB(A)Leq	IS 4758	62.4	-
4	Lab/PN/3556D/7 6F/06D	Near Mine Workshop	Day Time	dB(A)Leq	IS 4758	69.8	-

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

Reviewed & Authorized by  
Tantan Kumar



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Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3556D/76F/07

Reporting Date : 29/01/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3556D/76F/07	Sampling Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/01/2025
Sample Type:	Drinking Water	Analysis Start Date:	21/01/2025
Sample Description:	Near Admin Office (RO Water)	Analysis End Date:	27/01/2025
Sample Quantity:	5 L	Sampling Method:	GGMP/L/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	105.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	30.46	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	17.49	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=1)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	7.05	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.65	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	8.87	mg/L	APHA 24th Edition (4500 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	160.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	105.00	mg/L	APHA 24th Edition (2340 C)	200	600
11	Total Suspended Solids (TSS)	BQL (QL=5)	mg/L	APHA 24th Edition (2540 D)	NS	NS
12	Turbidity	BQL (QL=0.1)	NTU	APHA 24th Edition (2130 B):	1	5

AL & PL AS Per IS 10500.

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

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Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3556D/76F/07

Reporting Date : 29/01/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3556D/76F/07	Sampling Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/01/2025
Sample Type:	Drinking Water	Analysis Start Date:	21/01/2025
Sample Description:	Near Admin Office (RO Water)	Analysis End Date:	27/01/2025
Sample Quantity:	5 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	1.0	No Relaxation
14	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
15	Fluoride (F)	0.11	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	BQL (QL=0.5)	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	Absent	per 100ml	APHA 9222 A&B 24th Edition 2021	Absent	Absent
18	E.coli	Absent	per 100ml	APHA 9222H 24th Edition 2021	Absent	Absent

AL & PL AS Per IS 10500.

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3556D/76F/08

Reporting Date : 28/01/2025

M/s Moil Limited

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



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/3556D/76F/08	Sampling Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/01/2025
Sample Type:	Waste Water	Analysis Start Date:	21/01/2025
Sample Description:	Near Admin Office (Drainage Water)	Analysis End Date:	27/01/2025
Sample Quantity:	3 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.49	-	IS 3025- Part 11	-
2	Total Suspended Solids	58.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	144.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.30	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	28.0	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

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Tantan Kumar



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3556D/76F/09

M/s Moil Limited

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

Reporting Date : 28/01/2025



### SAMPLE DETAILS

Lab ID:	Lab/PN/3556D/76F/09	Sampling Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/01/2025
Sample Type:	Waste Water	Analysis Start Date:	21/01/2025
Sample Description:	ETP inlet	Analysis End Date:	27/01/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.48	-	IS 3025- Part 11	-
2	Total Suspended Solids	48.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	80.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.00	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	16.0	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

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Tantan Kumar



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3556D/76F/10

Reporting Date : 28/01/2025

M/s Moil Limited

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




### SAMPLE DETAILS

Lab ID:	Lab/PN/3556D/76F/10	Sampling Date:	17/01/2025
Sample Drawn By:	Maulik Prajapati	Sample Receipt Date:	20/01/2025
Sample Type:	Waste Water	Analysis Start Date:	21/01/2025
Sample Description:	Boiler water inlet	Analysis End Date:	27/01/2025
Sample Quantity:	4 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	pH at 25 °C	7.18	-	IS 3025- Part 11	-
2	Total Suspended Solids	17.00	mg/L	APHA 24th Edn 2540 D	-
3	Oil and Grease	BQL (QL=2)	mg/L	IS 3025- Part 39	-
4	Chemical Oxygen Demand (COD)	40.00	mg/L	APHA 24th Edn 5220 B	-
5	Dissolved Oxygen	4.80	mg/L	IS 3025- Part 38	-
6	BOD at 27 °C for 3 days	8.80	mg/L	IS 3025- Part 44	-
7	Manganese	BQL (QL=0.1)	mg/L	GGMPL/SOP/W & WW/46	-

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

  
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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/3556D/76F/11

Reporting Date: 28.01.2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

Lab ID	: Lab/PN/3556D/76F/11	Sampling Start Date	: 17.01.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18.01.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20.01.2025
Sample Location	: Near Admin Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMPL/SOP/MP/01
2	Relative Humidity	55.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01:2020
4	Temperature	24.0	°C	GGMPL/SOP/MP/01

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Page 1 of 1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3556D/76F/12

Reporting Date: 28.01.2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

Lab ID	: Lab/PN/3556D/76F/12	Sampling Start Date	: 17.01.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18.01.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20.01.2025
Sample Location	: Near Infront Of MCC Room		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMP/L/SOP/MP/01
2	Relative Humidity	55.0	%	GGMP/L/SOP/MP/01
3	Rainfall	0.0	mm	GGMP/L/SOP/MP/01:2020
4	Temperature	24.0	°C	GGMP/L/SOP/MP/01

Wind Direction= NE

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Page 1 of 1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3556D/76F/13

Reporting Date: 28.01.2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

Lab ID	: Lab/PN/3556D/76F/13	Sampling Start Date	: 17.01.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18.01.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20.01.2025
Sample Location	: Near Shift Incharge Room		

Sr. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMP/L/SOP/MP/01
2	Relative Humidity	55.0	%	GGMP/L/SOP/MP/01
3	Rainfall	0.0	mm	GGMP/L/SOP/MP/01:2020
4	Temperature	24.0	°C	GGMP/L/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number: GGMP/L/PN/3556D/76F/14

Reporting Date: 28.01.2025

**M/s Moil Limited**

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



### SAMPLE DETAILS

Lab ID	: Lab/PN/3556D/76F/14	Sampling Start Date	: 17.01.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 18.01.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 20.01.2025
Sample Location	: Near Mine Workshop		

Sl. No.	Parameters	Results	Unit	Test Method
1	Wind Speed	0.83	m/s	GGMP/L/SOP/MP/01
2	Relative Humidity	55.0	%	GGMP/L/SOP/MP/01
3	Rainfall	0.0	mm	GGMP/L/SOP/MP/01:2020
4	Temperature	24.0	°C	GGMP/L/SOP/MP/01

Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

----End of Report----

Page 1 of 1

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