

## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1319E/276/01

Reporting Date: 28/08/2025

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907



### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/01	Sampling Start Date:	18/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	19/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	21/08/2025
Sample Description:	Near Mine Work Shop	Analysis start- End Date:	21/08/2025-26/08/2025
Env. Cond.-Sampling:	Temp -27°C/Humidity-75%	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 (PM2.5)	37.49	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.52	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.38	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	10.27	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	11.30	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.15	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	70.47	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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

Reviewed & Authorized by  
Gyanvati Shukla



P. B. Patel

Reviewed & Authorized by  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1319E/276/02

Reporting Date: 28/08/2025

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907



### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/02	Sampling Start Date:	18/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	19/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	21/08/2025
Sample Description:	Near Pit Office	Analysis start- End Date:	21/08/2025-26/08/2025
Env. Cond.-Sampling:	Temp -27°C/Humidity-75%	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 (PM2.5)	39.15	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.68	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.42	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	11.23	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	12.71	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	72.87	µg/m3	IS 5182- Part 23	100

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/1319E/276/03

Reporting Date: 28/08/2025

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907



### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/03	Sampling Start Date:	18/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	19/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	21/08/2025
Sample Description:	Near Mine Hospital	Analysis start- End Date:	21/08/2025-26/08/2025
Env. Cond.-Sampling:	Temp -27°C/Humidity-75%	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 (PM2.5)	37.08	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.16	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	27.32	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.20	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.07	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	68.46	µg/m3	IS 5182- Part 23	100

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/1319E/276/04

Reporting Date: 28/08/2025

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907



### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/04	Sampling Start Date:	18/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	19/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	21/08/2025
Sample Description:	Near Mine Magazine	Analysis start- End Date:	21/08/2025-26/08/2025
Env. Cond.-Sampling:	Temp -27°C/Humidity-75%	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 (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.93	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	30.16	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.48	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.53	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	1.09	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	66.78	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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

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M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar Dist. Bhandara (M.S) 441907



TC-7973

## SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Shailesh pandey

Sampling Date: 18/08/2025  
Sample Description: Source Noise

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1319E/276/06

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



TC-7073

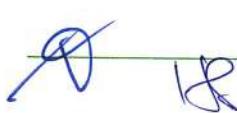
### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/06	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Ground Water	Analysis Start Date:	21/08/2025
Sample Description:	Workshop Borewell Water	Analysis End Date:	26/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

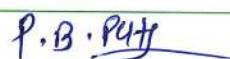
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	94.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	30.46	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	22.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.32	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	8.26	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.58	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	14.94	mg/L	APHA 24th Edn 4500 SO E	200	400
10	Total Dissolved Solids (TDS)	180.00	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>	110.00	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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Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



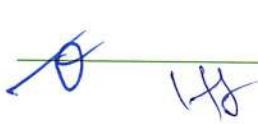
### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/06	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Ground Water	Analysis Start Date:	21/08/2025
Sample Description:	Workshop Borewell Water	Analysis End Date:	26/08/2025
Sample Quantity:	6 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	1.07	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



--- End of Report ---



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Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



TC-7073

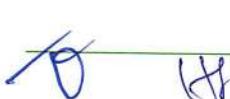
### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/07	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Ground Water	Analysis Start Date:	21/08/2025
Sample Description:	Kurmuda Plant	Analysis End Date:	26/08/2025
Sample Quantity:	6 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>	98.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	28.05	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	19.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.28	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	12.15	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.55	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	16.24	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	172.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	13.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	120.00	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/1319E/276/07

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



TC-7073

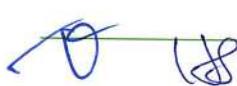
### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/07	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Ground Water	Analysis Start Date:	21/08/2025
Sample Description:	Kurmuda Plant	Analysis End Date:	26/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

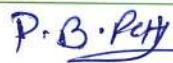
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	2	NTU	APHA 24th Edn 2130 B	1	5
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W&WW/46	1	No relaxation
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	0.1	0.3
16	Nitrate	1.27	mg/L	APHA 24th Edn 4500 NO3 B	45	No relaxation
17	Total coliform	Absent	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/1319E/276/08

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



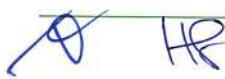
TC-7073

### SAMPLE DETAILS

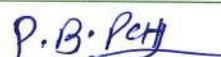
Lab ID:	Lab/PN/1319E/276/08	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Surface Water	Analysis Start Date:	21/08/2025
Sample Description:	Pond Near Shiv Mandir	Analysis End Date:	26/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
1	Alkalinity as CaCO <sub>3</sub>	340.00	mg/L	APHA 24th Edn 2320 B	-
2	Calcium as Ca	192.38	mg/L	APHA 24th Edn 3500 Ca B	-
3	Chloride	449.86	mg/L	IS 3025- Part 32	-
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	-
5	Fluoride	1.22	mg/L	APHA 24th Edn 4500 F D	-
6	Magnesium as Mg	70.47	mg/L	APHA 24th Edn 3500 Mg B	-
7	Odour	Agreeable	-	IS 3025- Part 5	-
8	pH at 25 °C	7.08	-	IS 3025- Part 11	-
9	Sulphate	148.04	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	
10	Total Dissolved Solids (TDS)	1350.00	mg/L	APHA 24th Edn 2540 C	-
11	Total Suspended Solids (TSS)	23.00	mg/L	APHA 24th Edn 2540 D	-
12	Total Hardness as CaCO <sub>3</sub>	770.00	mg/L	APHA 24th Edn 2340 C	-

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



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M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/08	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Surface Water	Analysis Start Date:	21/08/2025
Sample Description:	Pond Near Shiv Mandir	Analysis End Date:	26/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	Norm
13	Turbidity	5	NTU	APHA 24th Edn 2130 B	-
14	Iron	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
15	Manganese	BQL (QL=0.05)	mg/L	GGMPL/SOP/W & WW/46	-
16	Nitrate	8.25	mg/L	APHA 24th Edn 4500 NO3 B	-
17	Total coliform	34	MPN/100ml	APHA 9221B 24th Edition 2021	-
18	E. coli	11	MPN/100ml	APHA 9221G 24th Edition	-

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1319E/276/09

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Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



TC-7073

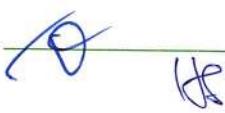
### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/09	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	21/08/2025
Sample Description:	Syndicate Colony	Analysis End Date:	26/08/2025
Sample Quantity:	6 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>	120.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	33.66	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	17.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	11.17	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.40	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	13.23	mg/L	APHA 24th Edition (4500 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	190.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	130.00	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	0.82	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/1319E/276/09

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/09	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	21/08/2025
Sample Description:	Syndicate Colony	Analysis End Date:	26/08/2025
Sample Quantity:	6 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	0.22	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	1.87	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	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/1319E/276/10

M/s Moil Limited

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Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/10	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Ground Water	Analysis Start Date:	21/08/2025
Sample Description:	Mine Pit Discharge	Analysis End Date:	26/08/2025
Sample Quantity:	6 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>	124.00	mg/L	APHA 24th Edn 2320 B	200	600
2	Calcium as Ca	34.46	mg/L	APHA 24th Edn 3500 Ca B	75	200
3	Chloride	19.99	mg/L	IS 3025- Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025- Part 4	5	15
5	Fluoride	0.36	mg/L	APHA 24th Edn 4500 F D	1.0	1.5
6	Magnesium as Mg	8.74	mg/L	APHA 24th Edn 3500 Mg B	30	100
7	Odour	Agreeable	-	IS 3025- Part 5	Agreeable	Agreeable
8	pH at 25 °C	7.48	-	IS 3025- Part 11	6.5-8.5	No relaxation
9	Sulphate	14.24	mg/L	APHA 24th Edn 4500 SO <sub>4</sub> E	200	400
10	Total Dissolved Solids (TDS)	202.00	mg/L	APHA 24th Edn 2540 C	500	2000
11	Total Suspended Solids (TSS)	8.00	mg/L	APHA 24th Edn 2540 D	NS	NS
12	Total Hardness as CaCO <sub>3</sub>	122.00	mg/L	APHA 24th Edn 2340 C	200	600

AL & PL AS Per IS 10500 please check

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

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Reporting Date : 28/08/2025



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/10	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Ground Water	Analysis Start Date:	21/08/2025
Sample Description:	Mine Pit Discharge	Analysis End Date:	26/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

Sr.No	Parameters	Results	Unit	Test Method	AL	PL
13	Turbidity	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	1.06	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 please check

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1319E/276/11

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/11	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	21/08/2025
Sample Description:	Near Pit Office RO Water	Analysis End Date:	26/08/2025
Sample Quantity:	6 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>	114.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	34.46	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	17.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	5.83	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	15.24	mg/L	APHA 24th Edition (4500 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	198.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	110.00	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

Reviewed & Authorized by  
Tantan kumar & Dr. Haragobinda Srichandan



P.B. Patel  
Reviewed & Authorized by  
Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1319E/276/11

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



TC-7073

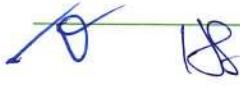
### SAMPLE DETAILS

Lab ID:	Lab/PN/1319E/276/11	Sampling Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	21/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	21/08/2025
Sample Description:	Near Pit Office RO Water	Analysis End Date:	26/08/2025
Sample Quantity:	6 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	0.33	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	1.47	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	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



--- End of Report ---



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Page No : 2/2

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1319E/276/12

Reporting Date: 28.08.2025

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907



### SAMPLE DETAILS

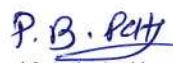
Lab ID	: Lab//PN/1319E/276/12	Sampling Start Date	: 18.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 19.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 21.08.2025
Sample Location	: Near Mine Work Shop		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.6	m/s	GGMPL/SOP/MP/01



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Gyanvati Shukla



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Payal Patel



Page 1 of 1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1319E/276/13

Reporting Date: 28.08.2025

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907



### SAMPLE DETAILS

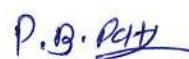
Lab ID	: Lab//PN/1319E/276/13	Sampling Start Date	: 18.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 19.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 21.08.2025
Sample Location	: Near Pit Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.6	m/s	GGMPL/SOP/MP/01



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----End of Report----

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Report Number: GGMPL/PN/1319E/276/14

Reporting Date: 28.08.2025

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907



TC-7073

### SAMPLE DETAILS

Lab ID	: Lab//PN/1319E/276/14	Sampling Start Date	: 18.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 19.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 21.08.2025
Sample Location	: Near Mine Hospital		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.6	m/s	GGMPL/SOP/MP/01

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL//PN/1319E/276/15

Reporting Date: 28.08.2025

M/s Moil Limited

Dogribuzurg Manganese Mines L1=234.02 Ha PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907



TC-7073

### SAMPLE DETAILS

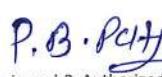
Lab ID	: Lab//PN/1319E/276/15	Sampling Start Date	: 18.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 19.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 21.08.2025
Sample Location	: Near Mine Magazine		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	27.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	75.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	3.6	m/s	GGMPL/SOP/MP/01



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1337E/277/01

Reporting Date: 27/08/2025

M/s Moil Limited

Dogribuzurg Railway Siding PO. Dongri Buzurg Tah. Tumsar Dist. Bhandara  
(M.S) 441907



### SAMPLE DETAILS

Lab ID:	Lab/PN/1337E/277/01	Sampling Start Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/08/2025
Sample Description:	Near Siding Office	Analysis start- End Date:	22/08/2025-26/08/2025
Env. Cond.-Sampling:	Temp -28°C/Humidity-78%	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 (PM2.5)	38.32	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	15.67	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	29.29	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	12.52	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	14.12	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.91	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	74.60	µg/m3	IS 5182- Part 23	100

Norms As Per National Ambient Air Quality Standards.

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

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Tantan Kumar



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Manish Kumawat

Page No : 1/1

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# CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1337E/277/02

Reporting Date: 27/08/2025

M/s Moil Limited

Dogribuzurg Railway Siding PO. Dongri Buzurg Tah. Tumsar Dist. Bhandara (M.S) 441907



TC-7073

## SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Shailesh pandey

Sampling Date: 19/08/2025  
Sample Description: Source Noise

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

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Tantan Kumar



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Manish Kumawat

Page No : 1/1

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1337E/277/03

M/s Moil Limited

Dogribuzurg Railway Siding PO. Dongri Buzurg Tah. Tumsar Dist. Bhandara  
(M.S) 441907

Reporting Date : 27/08/2025



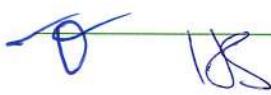
### SAMPLE DETAILS

Lab ID:	Lab/PN/1337E/277/03	Sampling Date:	20/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	22/08/2025
Sample Description:	At Siding Office R.O Water	Analysis End Date:	26/08/2025
Sample Quantity:	6 L	Sampling Method:	GGMPL/WI/27A
Sample Condition:	Satisfactory	Packing:	Sealed

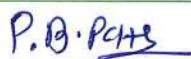
Sr.No	Parameters	Results	Unit	Test Method	AL	PL
1	Alkalinity as CaCO <sub>3</sub>	80.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	21.64	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	15.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	8.74	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.62	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	7.62	mg/L	APHA 24th Edition (4500 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	136.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	90.00	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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Payal Patel

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1337E/277/03

M/s Moil Limited

Dogribuzurg Railway Siding PO. Dongri Buzurg Tah. Tumsar Dist. Bhandara  
(M.S) 441907

Reporting Date : 27/08/2025



### SAMPLE DETAILS

Lab ID:	Lab/PN/1337E/277/03	Sampling Date:	20/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	22/08/2025
Sample Description:	At Siding Office R.O Water	Analysis End Date:	26/08/2025
Sample Quantity:	6 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	0.28	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	1.02	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	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/1337E/277/04

Reporting Date: 27.08.2025

M/s Moil Limited

Dogribuzurg Railway Siding PO. Dongri Buzurg Tah. Tumsar Dist. Bhandara (M.S) 441907



### SAMPLE DETAILS

Lab ID	: Lab/PN/1337E/277/04	Sampling Start Date	: 19.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.08.2025
Sample Location	: Near Siding Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	78.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.8	m/s	GGMPL/SOP/MP/01

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Tantan Kumar

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Manish Kumawat



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## CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1338E/278/01

Reporting Date: 28/08/2025

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907



### SAMPLE DETAILS

Lab ID:	Lab/PN/1338E/278/01	Sampling Start Date:	19/08/2025
Sample Drawn By:	Shailesh Pandey	Sampling End Date:	20/08/2025
Sample Type:	Ambient Air	Sample Receipt Date:	22/08/2025
Sample Description:	Near Admin Office	Analysis start- End Date:	22/08/2025-26/08/2025
Env. Cond.-Sampling:	Temp -28°C/Humidity-78%	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 (PM2.5)	36.65	µg/m3	GGMPL/SOP/AA/60	60
2	Sulphur Dioxide (SO2)	14.69	µg/m3	IS 5182-Part 2	80
3	Oxides of Nitrogen	28.66	µg/m3	IS 5182- Part 6	80
4	Ozone (O3)	13.48	µg/m3	IS 5182- Part 9	180
5	Ammonia (NH3)	15.53	µg/m3	GGMPL/SOP/AA/62	400
6	Benzene	BQL (QL=2.5)	µg/m3	IS 5182- Part 11	5
7	Benzo(a) pyrene	BQL (QL=0.5)	ng/m3	IS 5182- Part 12	1
8	Carbon Monoxide (CO)	0.89	mg/m3	IS 5182- Part 10	4
9	Nickel as Ni	BQL (QL=5)	ng/m3	Method IO 3.4	20
10	Arsenic as As	BQL (QL=1)	ng/m3	Method IO 3.4	6
11	Lead	BQL (QL=0.001)	µg/m3	Method IO 3.4	1
12	Particulate Matter (PM10)	69.41	µg/m3	IS 5182- Part 23	100

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/1338E/278/02

Reporting Date: 28/08/2025

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907



TC-7073

## SAMPLE DETAILS

Sampling Instrument : Sound Level Meter  
Sample By Shailesh pandey

Sampling Date: 19/08/2025  
Sample Description: Source Noise

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

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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1338E/278/03

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



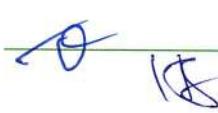
### SAMPLE DETAILS

Lab ID:	Lab/PN/1338E/278/03	Sampling Date:	20/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	22/08/2025
Sample Description:	R.O Water Near Admin Office	Analysis End Date:	26/08/2025
Sample Quantity:	6 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>	99.00	mg/L	APHA 24th Edition (2320 B)	200	600
2	Calcium as Ca	28.85	mg/L	APHA 24th Edition (3500 Ca B)	75	200
3	Chloride	18.99	mg/L	IS 3025 -Part 32	250	1000
4	Colour	BQL (QL=2.5)	CU	IS 3025 Part-4	5	15
5	Magnesium as Mg	7.29	mg/L	APHA 24th Edition (3500 Mg B)	30	100
6	Odour	Agreeable	-	IS 3025 Part 5	Agreeable	Agreeable
7	pH at 25 °C	7.57	-	IS 3025-Part 11	6.5-8.5	No Relaxation
8	Sulphate	11.33	mg/L	APHA 24th Edition (4500 SO <sub>4</sub> E)	200	400
9	Total Dissolved Solids (TDS)	166.00	mg/L	APHA 24th Edition (2540 C)	500	2000
10	Total Hardness as CaCO <sub>3</sub>	102.00	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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Report Number: GGMPL/PN/1338E/278/03

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



### SAMPLE DETAILS

Lab ID:	Lab/PN/1338E/278/03	Sampling Date:	20/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/08/2025
Sample Type:	Drinking Water	Analysis Start Date:	22/08/2025
Sample Description:	R.O Water Near Admin Office	Analysis End Date:	26/08/2025
Sample Quantity:	6 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	0.21	mg/L	APHA 24th Edn 4500 F D	1	1.5
16	Nitrate	1.43	mg/L	APHA 24th Edn 4500 NO3 B	45	No Relaxation
17	Total coliform	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent
18	E. coli	BQL (QL=1)	CFU/100ml	IS 15185	Absent	Absent

AL & PL AS Per IS 10500

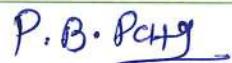
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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## CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1338E/278/04

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg PO. Dongri Buzurg Tah. Tumsar  
Dist. Bhandara (M.S) 441907

Reporting Date : 28/08/2025



TC-7073

### SAMPLE DETAILS

Lab ID:	Lab/PN/1338E/278/04	Sampling Date:	20/08/2025
Sample Drawn By:	Shailesh Pandey	Sample Receipt Date:	22/08/2025
Sample Type:	Waste Water	Analysis Start Date:	22/08/2025
Sample Description:	Boiler Water Inlet	Analysis End Date:	26/08/2025
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	7.38	-	IS 3025- Part 11	-
2	Total Suspended Solids (TSS)	21.00	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	5.50	mg/L	IS 3025- Part 38	-
6	BOD at 27 o C for 3 days	9.56	mg/L	IS 3025- Part 44	-
7	Manganese	1.59	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/1338E/278/05

Reporting Date: 28.08.2025

M/s Moil Limited

Dogribuzurg EMD Plant, P.O. Dogribuzurg PO. Dongri Buzurg Tah. Tumsar Dist.  
Bhandara (M.S) 441907



### SAMPLE DETAILS

Lab ID	: Lab//PN/1338E/278/05	Sampling Start Date	: 19.08.2025
Sampling Instrument	: Weather Monitoring Station	Sampling End Date	: 20.08.2025
Sample Type	: Meteorological Parameter	Sample Receipt Date	: 22.08.2025
Sample Location	: Near Admin Office		

Sr. No.	Parameters	Results	Unit	Test Method
1	Temperature	28.0	°C	GGMPL/SOP/MP/01
2	Relative Humidity	78.0	%	GGMPL/SOP/MP/01
3	Rainfall	0.0	mm	GGMPL/SOP/MP/01
4	Average Wind Speed	2.8	m/s	GGMPL/SOP/MP/01

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Tantan Kumar

Reviewed & Authorized by

Manish Kumawat



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