

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




Reviewed & Authorized by
Payal Patel

Page No : 1/1

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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.

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P. B. Patel
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CERTIFICATE OF ANALYSIS

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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.

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




SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By : Shailesh pandey

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

| Sr.No | Lab Id | Location | Time | Unit | Test Method | Reading | Norms |
|-------|--------------------------|---------------------|----------|----------|-------------|---------|-------|
| 1 | Lab/PN/1319E/2 76/05A | Near Mine Work Shop | Day Time | dB(A)Leq | IS 4758 | 65 | - |
| 2 | Lab/PN/1319E/2 76/05B | Near Pit Office | Day Time | dB(A)Leq | IS 4758 | 66 | - |
| 3 | Lab/PN/1319E/2 76/05C | Near Mine Hospital | Day Time | dB(A)Leq | IS 4758 | 61 | - |
| 4 | Lab/PN/1319E/2 76/05D | Near Mine Magazine | Day Time | dB(A)Leq | IS 4758 | 62 | - |

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Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

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



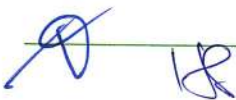
SAMPLE DETAILS

| | | | |
|---------------------|-------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1319E/276/06 | 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 ₃ | 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 ₄ 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 ₃ | 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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Page No : 1/2

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SAMPLE DETAILS

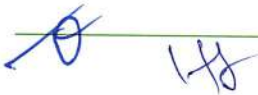
Lab ID: Lab/PN/1319E/276/06
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Workshop Borewell Water
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 19/08/2025
Sample Receipt Date: 21/08/2025
Analysis Start Date: 21/08/2025
Analysis End Date: 26/08/2025
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 | 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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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/276/07 | 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 ₃ | 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 ₄ 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 ₃ | 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

(Signature)

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



(Signature)

Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1319E/276/07

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/276/07 | 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

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



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Payal Patel

Page No : 2/2

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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



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 ₃ | 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 ₄ 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 ₃ | 770.00 | mg/L | APHA 24th Edn 2340 C | - |

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

HR

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Tantan kumar & Dr. Haragobinda Srichandan



P.B. Patel

Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1319E/276/08

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/276/08
Sample Drawn By: Shailesh Pandey
Sample Type: Surface Water
Sample Description: Pond Near Shiv Mandir
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 19/08/2025
Sample Receipt Date: 21/08/2025
Analysis Start Date: 21/08/2025
Analysis End Date: 26/08/2025
Sampling Method: GGMPL/WI/27A
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

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by
Payal Patel

Page No : 2/2

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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



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 ₃ | 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 ₄ E) | 200 | 400 |
| 9 | Total Dissolved Solids (TDS) | 190.00 | mg/L | APHA 24th Edition (2540 C) | 500 | 2000 |
| 10 | Total Hardness as CaCO ₃ | 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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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

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/276/09 | 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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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1319E/276/10

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



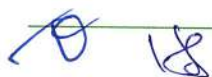
SAMPLE DETAILS

| | | | |
|---------------------|---------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1319E/276/10 | 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 |

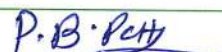
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--------------------------------------|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 124.00 | mg/L | APHA 24th Edn 2320 B | 200 | 600 |
| 2 | Calcium as Ca | 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 ₄ 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 ₃ | 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



Reviewed & Authorized by
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/1319E/276/10

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/276/10
Sample Drawn By: Shailesh Pandey
Sample Type: Ground Water
Sample Description: Mine Pit Discharge
Sample Quantity: 6 L
Sample Condition: Satisfactory

Sampling Date: 19/08/2025
Sample Receipt Date: 21/08/2025
Analysis Start Date: 21/08/2025
Analysis End Date: 26/08/2025
Sampling Method: GGMPL/WI/27A
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

Reviewed & Authorized by
Tantan kumar & Dr. Haragobinda Srichandan



Reviewed & Authorized by
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

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/276/11 | 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 ₃ | 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 ₄ E) | 200 | 400 |
| 9 | Total Dissolved Solids (TDS) | 198.00 | mg/L | APHA 24th Edition (2540 C) | 500 | 2000 |
| 10 | Total Hardness as CaCO ₃ | 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

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Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

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/276/11 | 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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Payal Patel

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 |

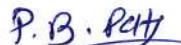


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-----End of Report-----



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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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CERTIFICATE OF ANALYSIS

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



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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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



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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Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/L/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



TC-7073

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 | GGMP/L/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 | GGMP/L/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/277/03

Reporting Date : 27/08/2025

M/s Moil Limited

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



TC-7073

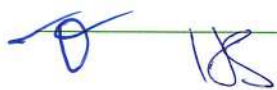
SAMPLE DETAILS

| | | | |
|---------------------|----------------------------|----------------------|--------------|
| 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 |

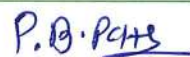
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 80.00 | mg/L | APHA 24th Edition (2320 B) | 200 | 600 |
| 2 | Calcium as Ca | 21.64 | mg/L | APHA 24th Edition (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 ₄ E) | 200 | 400 |
| 9 | Total Dissolved Solids (TDS) | 136.00 | mg/L | APHA 24th Edition (2540 C) | 500 | 2000 |
| 10 | Total Hardness as CaCO ₃ | 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

Page No : 1/2

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CERTIFICATE OF ANALYSIS

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

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/277/03 | 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 |

Reviewed & Authorized by

Tantan Kumar



Reviewed & Authorized by

Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMP/ 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



TC-7073

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 | GGMP/ 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 | GGMP/ 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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Page No : 1/1

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CERTIFICATE OF ANALYSIS

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

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



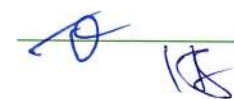
SAMPLE DETAILS

| | | | |
|---------------------|-----------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1338E/278/03 | 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 |

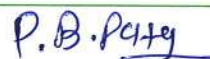
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 99.00 | mg/L | APHA 24th Edition (2320 B) | 200 | 600 |
| 2 | Calcium as Ca | 28.85 | mg/L | APHA 24th Edition (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 ₄ E) | 200 | 400 |
| 9 | Total Dissolved Solids (TDS) | 166.00 | mg/L | APHA 24th Edition (2540 C) | 500 | 2000 |
| 10 | Total Hardness as CaCO ₃ | 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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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/1338E/278/03

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/278/03 | 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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Page No : 2/2

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CERTIFICATE OF ANALYSIS

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

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/278/04 | 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 °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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Tantan Kumar



--- End of Report ---

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Manish Kurnawal

Page No : 1/1

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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



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Manish Kumawat

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