

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1427E/304/01

Reporting Date: 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1427E/304/01 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near Nagra Plant | Analysis start- End Date: | 30/08/2025-04/09/2025 |
| Env. Cond.-Sampling: | Temp -26°C/Humidity-81% | 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) | 37.90 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 15.46 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 28.42 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 15.09 | 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) | 0.88 | 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) | 66.46 | 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

Reviewed & Authorized by
Gyanvati Shukla



P. B. Patel

Reviewed & Authorized by
Payal Patel

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1427E/304/02

Reporting Date: 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1427E/304/02 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near Vertical Shaft-1 | Analysis start- End Date: | 30/08/2025-04/09/2025 |
| Env. Cond.-Sampling: | Temp -26°C/Humidity-81% | 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) | 13.01 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 26.55 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 14.12 | 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) | 0.93 | 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) | 69.52 | 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

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1427E/304/03

Reporting Date: 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

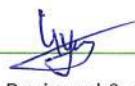
SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1427E/304/03 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near Workshop | Analysis start- End Date: | 30/08/2025-04/09/2025 |
| Env. Cond.-Sampling: | Temp -26°C/Humidity-81% | 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) | 36.24 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 12.59 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 29.47 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 11.24 | µg/m3 | IS 5182- Part 9 | 180 |
| 5 | Ammonia (NH3) | 16.95 | 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) | 0.96 | 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) | 67.47 | µg/m3 | IS 5182- Part 23 | 100 |

Norms As Per National Ambient Air Quality Standards.

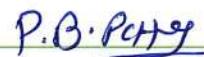
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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End of Report



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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1427E/304/04

Reporting Date: 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1427E/304/04 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near Ukwa Village | Analysis start- End Date: | 30/08/2025-04/09/2025 |
| Env. Cond.-Sampling: | Temp -26°C/Humidity-81% | 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) | 38.74 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 13.37 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 27.84 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 13.80 | 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) | 1.03 | 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) | 68.91 | 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/1427E/304/05

Reporting Date: 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

| | | | |
|-----------------------|-------------------|---------------------|--------------|
| Sampling Instrument : | Sound Level Meter | Sampling Date: | 27/08/2025 |
| Sample By | Shailesh pandey | Sample Description: | Source Noise |

| Sr.No | Lab Id | Location | Time | Unit | Test Method | Reading | Norms |
|-------|--------------------------|-----------------------|----------|----------|-------------|---------|-------|
| 1 | Lab/PN/1427E/3 04/05A | Near Nagra Plant | Day Time | dB(A)Leq | IS 4758 | 62 | - |
| 2 | Lab/PN/1427E/3 04/05B | Near Vertical Shaft-1 | Day Time | dB(A)Leq | IS 4758 | 66 | - |
| 3 | Lab/PN/1427E/3 04/05C | Near Workshop | Day Time | dB(A)Leq | IS 4758 | 67 | - |
| 4 | Lab/PN/1427E/3 04/05D | Near Ukwa Village | Day Time | dB(A)Leq | IS 4758 | 62 | - |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

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Gyanvati Shukla



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Payal Patel



End of Report

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/06

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105

Reporting Date : 08/09/2025



TC-7073

SAMPLE DETAILS

| | | | |
|---------------------|--------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/06 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | G.W New Mine Colony Pump House | Analysis End Date: | 04/09/2025 |
| 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 | 225.00 | mg/L | APHA 24th Edn 2320 B | 200 | 600 |
| 2 | Calcium as Ca | 56.11 | mg/L | APHA 24th Edn 3500 Ca B | 75 | 200 |
| 3 | Chloride | 98.96 | mg/L | IS 3025- Part 32 | 250 | 1000 |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | 5 | 15 |
| 5 | Fluoride | 1.04 | mg/L | APHA 24th Edn 4500 F D | 1.0 | 1.5 |
| 6 | Magnesium as Mg | 34.02 | mg/L | APHA 24th Edn 3500 Mg B | 30 | 100 |
| 7 | Odour | Agreeable | - | IS 3025- Part 5 | Agreeable | Agreeable |
| 8 | pH at 25 °C | 7.13 | - | IS 3025- Part 11 | 6.5-8.5 | No relaxation |
| 9 | Sulphate | 44.63 | mg/L | APHA 24th Edn 4500 SO ₄ E | 200 | 400 |
| 10 | Total Dissolved Solids (TDS) | 502.00 | 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 | 280.00 | mg/L | APHA 24th Edn 2340 C | 200 | 600 |

AL & PL AS Per IS 10500

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



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Tantan Kumar & Dr. Haragobinda Srichandan




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Payal Patel

Page No : 1/2

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Reporting Date : 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

| | | | |
|---------------------|--------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/06 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | G.W New Mine Colony Pump House | Analysis End Date: | 04/09/2025 |
| 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 | 0.78 | 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 | 5.68 | 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

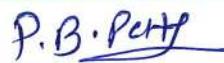
NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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Tantan Kumar & Dr. Haragobinda Srichandan



--- End of Report ---



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/07

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 08/09/2025



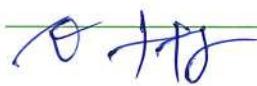
SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/07 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | D.W Mine Office Water Cooler | Analysis End Date: | 04/09/2025 |
| 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 | 40.00 | mg/L | APHA 24th Edition (2320 B) | 200 | 600 |
| 2 | Calcium as Ca | 8.81 | mg/L | APHA 24th Edition (3500 Ca B) | 75 | 200 |
| 3 | Chloride | 7.99 | 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 | 5.34 | mg/L | APHA 24th Edition (3500 Mg B) | 30 | 100 |
| 6 | Odour | Agreeable | - | IS 3025 Part 5 | Agreeable | Agreeable |
| 7 | pH at 25 °C | 7.55 | - | IS 3025-Part 11 | 6.5-8.5 | No Relaxation |
| 8 | Sulphate | 4.81 | mg/L | APHA 24th Edition (4500 SO ₄ E) | 200 | 400 |
| 9 | Total Dissolved Solids (TDS) | 68.00 | mg/L | APHA 24th Edition (2540 C) | 500 | 2000 |
| 10 | Total Hardness as CaCO ₃ | 44.00 | 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




Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/07

Reporting Date : 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/07 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | D.W Mine Office Water Cooler | Analysis End Date: | 04/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

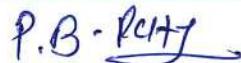
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|--------------------------|--------|---------------|
| 13 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 1.0 | No Relaxation |
| 14 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 0.1 | 0.3 |
| 15 | Fluoride | BQL (QL=0.1) | mg/L | APHA 24th Edn 4500 F D | 1 | 1.5 |
| 16 | Nitrate | BQL (QL=0.5) | mg/L | APHA 24th Edn 4500 NO3 B | 45 | No Relaxation |
| 17 | Total coliform | 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



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/1427E/304/08

Reporting Date : 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

| | | | |
|---------------------|---------------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/08 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | D.W Officer Colony No. 4 Water Cooler | Analysis End Date: | 04/09/2025 |
| 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 | 190.00 | mg/L | APHA 24th Edition (2320 B) | 200 | 600 |
| 2 | Calcium as Ca | 62.52 | 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 | 9.72 | mg/L | APHA 24th Edition (3500 Mg B) | 30 | 100 |
| 6 | Odour | Agreeable | - | IS 3025 Part 5 | Agreeable | Agreeable |
| 7 | pH at 25 °C | 7.23 | - | IS 3025-Part 11 | 6.5-8.5 | No Relaxation |
| 8 | Sulphate | 6.51 | mg/L | APHA 24th Edition (4500 SO ₄ E) | 200 | 400 |
| 9 | Total Dissolved Solids (TDS) | 260.00 | mg/L | APHA 24th Edition (2540 C) | 500 | 2000 |
| 10 | Total Hardness as CaCO ₃ | 196.00 | mg/L | APHA 24th Edition (2340 C) | 200 | 600 |
| 11 | Total Suspended Solids (TSS) | BQL (QL=5) | mg/L | APHA 24th Edition (2540 D) | NS | NS |
| 12 | Turbidity | BQL (QL=0.1) | NTU | APHA 24th Edition (2130 B) | 1 | 5 |

AL & PL AS Per IS 10500

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



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Tantan Kumar & Dr. Haragobinda Srichandan




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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/08

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 08/09/2025



TC-7073

SAMPLE DETAILS

| | | | |
|---------------------|---------------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/08 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | D.W Officer Colony No. 4 Water Cooler | Analysis End Date: | 04/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

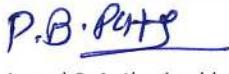
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|--------------------------|--------|---------------|
| 13 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 1.0 | No Relaxation |
| 14 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 0.1 | 0.3 |
| 15 | Fluoride | 0.32 | mg/L | APHA 24th Edn 4500 F D | 1 | 1.5 |
| 16 | Nitrate | 3.70 | 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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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/09

Reporting Date : 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

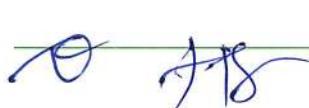
SAMPLE DETAILS

| | | | |
|---------------------|-------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/09 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | D.W Rest House Water Purifier | Analysis End Date: | 04/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

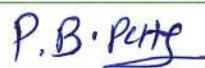
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 145.00 | mg/L | APHA 24th Edition (2320 B) | 200 | 600 |
| 2 | Calcium as Ca | 36.07 | mg/L | APHA 24th Edition (3500 Ca B) | 75 | 200 |
| 3 | Chloride | 10.99 | 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 | 7.34 | - | IS 3025-Part 11 | 6.5-8.5 | No Relaxation |
| 8 | Sulphate | 4.31 | mg/L | APHA 24th Edition (4500 SO ₄ E) | 200 | 400 |
| 9 | Total Dissolved Solids (TDS) | 192.00 | mg/L | APHA 24th Edition (2540 C) | 500 | 2000 |
| 10 | Total Hardness as CaCO ₃ | 120.00 | 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/1427E/304/09

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 08/09/2025



TC-7073

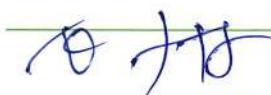
SAMPLE DETAILS

| | | | |
|---------------------|-------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/09 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | D.W Rest House Water Purifier | Analysis End Date: | 04/09/2025 |
| 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 | 2.21 | 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/1427E/304/10

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105

Reporting Date : 08/09/2025



SAMPLE DETAILS

| | | | |
|---------------------|----------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/10 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | D.W Mine Hospital RO Water | Analysis End Date: | 04/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

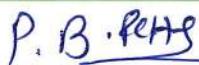
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 195.00 | mg/L | APHA 24th Edition (2320 B) | 200 | 600 |
| 2 | Calcium as Ca | 48.09 | mg/L | APHA 24th Edition (3500 Ca B) | 75 | 200 |
| 3 | Chloride | 14.99 | 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 | 10.69 | mg/L | APHA 24th Edition (3500 Mg B) | 30 | 100 |
| 6 | Odour | Agreeable | - | IS 3025 Part 5 | Agreeable | Agreeable |
| 7 | pH at 25 °C | 7.25 | - | IS 3025-Part 11 | 6.5-8.5 | No Relaxation |
| 8 | Sulphate | 9.32 | mg/L | APHA 24th Edition (4500 SO ₄ E) | 200 | 400 |
| 9 | Total Dissolved Solids (TDS) | 264.00 | mg/L | APHA 24th Edition (2540 C) | 500 | 2000 |
| 10 | Total Hardness as CaCO ₃ | 164.00 | 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

Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/10

Reporting Date : 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

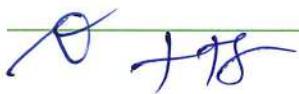
SAMPLE DETAILS

| | | | |
|---------------------|----------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/10 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | D.W Mine Hospital RO Water | Analysis End Date: | 04/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

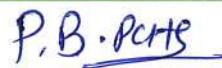
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|--------------------------|--------|---------------|
| 13 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 1.0 | No Relaxation |
| 14 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 0.1 | 0.3 |
| 15 | Fluoride | 0.24 | mg/L | APHA 24th Edn 4500 F D | 1 | 1.5 |
| 16 | Nitrate | 2.44 | 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

Reviewed & Authorized by
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/11

Reporting Date : 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

| | | | |
|---------------------|--------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/11 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | D.W Nagar Plant RO Water | Analysis End Date: | 04/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

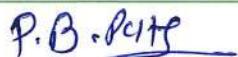
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 200.00 | mg/L | APHA 24th Edition (2320 B) | 200 | 600 |
| 2 | Calcium as Ca | 51.30 | mg/L | APHA 24th Edition (3500 Ca B) | 75 | 200 |
| 3 | Chloride | 11.99 | 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 | 11.66 | mg/L | APHA 24th Edition (3500 Mg B) | 30 | 100 |
| 6 | Odour | Agreeable | - | IS 3025 Part 5 | Agreeable | Agreeable |
| 7 | pH at 25 °C | 7.30 | - | IS 3025-Part 11 | 6.5-8.5 | No Relaxation |
| 8 | Sulphate | 6.92 | mg/L | APHA 24th Edition (4500 SO ₄ E) | 200 | 400 |
| 9 | Total Dissolved Solids (TDS) | 268.00 | mg/L | APHA 24th Edition (2540 C) | 500 | 2000 |
| 10 | Total Hardness as CaCO ₃ | 176.00 | 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/1427E/304/11

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 08/09/2025



TC-7073

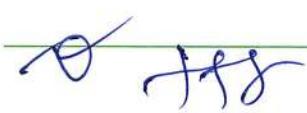
SAMPLE DETAILS

| | | | |
|---------------------|--------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1427E/304/11 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | D.W Nagar Plant RO Water | Analysis End Date: | 04/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

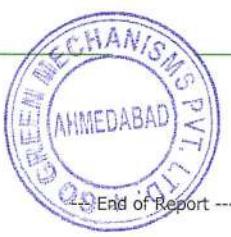
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|--------------------------|--------|---------------|
| 13 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 1.0 | No Relaxation |
| 14 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 0.1 | 0.3 |
| 15 | Fluoride | 0.32 | mg/L | APHA 24th Edn 4500 F D | 1 | 1.5 |
| 16 | Nitrate | 3.02 | 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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End of Report ---



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/12

Reporting Date: 08.09.2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

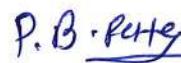
| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1427E/304/12 | Sampling Start Date | : 27.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 28.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 30.08.2025 |
| Sample Location | : Near Nagra Plant | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
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Gyanvati Shukla



Reviewed & Authorized by

Payal Patel



End of Report

Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/13

Reporting Date: 08.09.2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada,
Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1427E/304/13 | Sampling Start Date | : 27.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 28.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 30.08.2025 |
| Sample Location | : Near Vertical Shaft-1 | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
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Gyantvi Shukla




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/14

Reporting Date: 08.09.2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1427E/304/14 | Sampling Start Date | : 27.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 28.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 30.08.2025 |
| Sample Location | : Near Workshop | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
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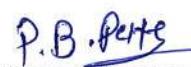


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1427E/304/15

Reporting Date: 08.09.2025

M/s Moil Limited

Ukwa Manganese Mines L1=199.067 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
 Balaghat (M.P) 481105



SAMPLE DETAILS

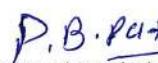
| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1427E/304/15 | Sampling Start Date | : 27.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 28.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 30.08.2025 |
| Sample Location | : Near Ukwa Village | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
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Reviewed & Authorized by

Gyanvati Shukla

Reviewed & Authorized by

Payal Patel

----End of Report----

Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1428E/305/01

Reporting Date: 06/09/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1428E/305/01 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near Vertical Shaft-2 | Analysis start- End Date: | 30/08/2025-05/09/2025 |
| Env. Cond.-Sampling: | Temp-26°C/ Humidity-81% | 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) | 34.58 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 14.86 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 26.68 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 14.45 | µg/m3 | IS 5182- Part 9 | 180 |
| 5 | Ammonia (NH3) | 18.36 | 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) | 0.92 | 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) | 67.81 | 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



--- End of Report ---

Reviewed & Authorized by
Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1428E/305/02

Reporting Date: 06/09/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1428E/305/02 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near Substation | Analysis start- End Date: | 30/08/2025-05/09/2025 |
| Env. Cond.-Sampling: | Temp-26°C/ Humidity-81% | 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) | 32.08 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 13.38 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 22.94 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 12.84 | µg/m3 | IS 5182- Part 9 | 180 |
| 5 | Ammonia (NH3) | 9.89 | 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) | 0.87 | 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) | 65.40 | µg/m3 | IS 5182- Part 23 | |

Norms as per National Ambient Air Quality Standards.

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



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--- End of Report ---



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Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1428E/305/03

Reporting Date: 06/09/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1428E/305/03 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near Admin Building | Analysis start- End Date: | 30/08/2025-05/09/2025 |
| Env. Cond.-Sampling: | Temp-26°C/ Humidity-81% | 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) | 30.83 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 15.90 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 23.72 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 15.41 | µg/m3 | IS 5182- Part 9 | 180 |
| 5 | Ammonia (NH3) | 16.95 | 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) | 0.95 | 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) | 68.55 | 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/1428E/305/04

Reporting Date: 06/09/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1428E/305/04 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near Weigh Bridge | Analysis start- End Date: | 30/08/2025-05/09/2025 |
| Env. Cond.-Sampling: | Temp-26°C/ Humidity-81% | 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) | 35.41 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 17.56 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 26.10 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 13.16 | 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) | 0.96 | 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) | 63.84 | 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/1428E/305/05

Reporting Date: 06/09/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

Sampling Date: 27/08/2025
Sample Description: Source Noise

| Sr.No | Lab Id | Location | Time | Unit | Test Method | Reading | Norms |
|-------|--------------------------|---------------------------------------|----------|----------|-------------|---------|-------|
| 1 | Lab/PN/1428E/3 05/05A | Near Vertical Shaft-2 | Day Time | dB(A)Leq | IS 4758 | 62 | - |
| 2 | Lab/PN/1428E/3 05/05B | Compressor House-2 | Day Time | dB(A)Leq | IS 4758 | 69 | - |
| 3 | Lab/PN/1428E/3 05/05C | Near Jack Hammer Drill (1650Level) | Day Time | dB(A)Leq | IS 4758 | 67 | - |
| 4 | Lab/PN/1428E/3 05/05D | Damper Loaded at Workshop | Day Time | dB(A)Leq | IS 4758 | 62 | - |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/06

Reporting Date : 06/09/2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

| | | | |
|---------------------|--------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1428E/305/06 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | Vertical SHAft -2 Open Dugwell | Analysis End Date: | 05/09/2025 |
| 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 | 385.00 | mg/L | APHA 24th Edn 2320 B | 200 | 600 |
| 2 | Calcium as Ca | 106.21 | mg/L | APHA 24th Edn 3500 Ca B | 75 | 200 |
| 3 | Chloride | 110.46 | mg/L | IS 3025- Part 32 | 250 | 1000 |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | 5 | 15 |
| 5 | Fluoride | 0.97 | mg/L | APHA 24th Edn 4500 F D | 1.0 | 1.5 |
| 6 | Magnesium as Mg | 48.84 | mg/L | APHA 24th Edn 3500 Mg B | 30 | 100 |
| 7 | - Odour | Agreeable | - | IS 3025- Part 5 | Agreeable | Agreeable |
| 8 | pH at 25 °C | 7.06 | - | IS 3025- Part 11 | 6.5-8.5 | No relaxation |
| 9 | Sulphate | 60.78 | mg/L | APHA 24th Edn 4500 SO ₄ E | 200 | 400 |
| 10 | Total Dissolved Solids (TDS) | 694.00 | 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 | 466.00 | 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



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/1428E/305/06

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 06/09/2025



TC-7073

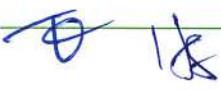
SAMPLE DETAILS

| | | | |
|---------------------|--------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1428E/305/06 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | Vertical Shaft -2 Open Dugwell | Analysis End Date: | 05/09/2025 |
| 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 | 0.52 | 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 | 6.85 | 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 |

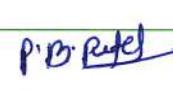
AL & PL as per IS 10500.

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


Reviewed & Authorized by
Tantan Kumar & Dr. Haragobinda Srichandan



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Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/07

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 06/09/2025



TC-7073

SAMPLE DETAILS

| | | | |
|---------------------|---------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1428E/305/07 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Waste Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | Mine Seepage Water | Analysis End Date: | 05/09/2025 |
| 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 | 7.32 | - | IS 3025- Part 11 | - |
| 2 | Total Suspended Solids (TSS) | 16.00 | 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) | 20.00 | mg/L | APHA 24th Edn 5220 B | - |
| 5 | Dissolved Oxygen | 4.50 | mg/L | IS 3025- Part 38 | - |
| 6 | BOD at 27 °C for 3 days | 5.8 | mg/L | IS 3025- Part 44 | - |
| 7 | Manganese | 0.33 | mg/L | GGMPL/SOP/W&WW/46 | - |

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/1428E/305/08

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 06/09/2025



SAMPLE DETAILS

| | | | |
|---------------------|---------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1428E/305/08 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Waste Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | STP Outlet | Analysis End Date: | 05/09/2025 |
| 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 | 7.42 | - | IS 3025- Part 11 | - |
| 2 | Total Suspended Solids (TSS) | 22.00 | 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) | 36.0 | mg/L | APHA 24th Edn 5220 B | - |
| 5 | Dissolved Oxygen | 4.0 | mg/L | IS 3025- Part 38 | - |
| 6 | BOD at 27 °C for 3 days | 8.8 | mg/L | IS 3025- Part 44 | - |
| 7 | Manganese | 2.62 | mg/L | GGMPL/SOP/W&WW/46 | - |
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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/1428E/305/09

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 06/09/2025



SAMPLE DETAILS

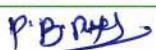
| | | | |
|---------------------|---------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1428E/305/09 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Waste Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | ETP Outlet | Analysis End Date: | 05/09/2025 |
| Sample Quantity: | 4 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | Norm |
|-------|------------------------------|------------|------|----------------------|------|
| 1 | pH at 25 °C | 7.48 | - | IS 3025- Part 11 | - |
| 2 | Total Suspended Solids (TSS) | 17.00 | mg/L | APHA 24th Edn 2540 D | - |
| 3 | Oil and Grease | BQL (QL=2) | mg/L | IS 3025- Part 39 | - |
| 4 | Chemical Oxygen Demand (COD) | 28.00 | mg/L | APHA 24th Edn 5220 B | - |
| 5 | Dissolved Oxygen | 5.00 | mg/L | IS 3025- Part 38 | - |
| 6 | BOD at 27 °C for 3 days | 6.6 | mg/L | IS 3025- Part 44 | - |
| 7 | Manganese | 1.29 | mg/L | GGMPL/SOP/W&WW/46 | - |
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NS=Not Specified, BQL=Below Quantification Limit, QL= Quantification Limit



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/10

Reporting Date: 06.09.2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P)481105



SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1428E/305/10 | Sampling Start Date | : 26.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 27.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 29.08.2025 |
| Sample Location | : Near Vertical Shaft-2 | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/11

Reporting Date: 06.09.2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Parawada, Dist. Balaghat (M.P)481105



SAMPLE DETAILS

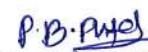
| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1428E/305/11 | Sampling Start Date | : 26.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 27.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 29.08.2025 |
| Sample Location | : Near Substation | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/12

Reporting Date: 06.09.2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
 Balaghat (M.P)481105



SAMPLE DETAILS

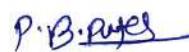
| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1428E/305/12 | Sampling Start Date | : 26.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 27.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 29.08.2025 |
| Sample Location | : Near Admin Building | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1428E/305/13

Reporting Date: 06.09.2025

M/s Moil Limited

Ukwa Manganese Mines L2=69.581 Ha Site PO. Ukwa, Tah. Parawada, Dist.
Balaghat (M.P)481105



SAMPLE DETAILS

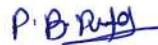
| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1428E/305/13 | Sampling Start Date | : 26.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 27.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 29.08.2025 |
| Sample Location | : Near Weigh Bridge | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1429E/306/01

Reporting Date: 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

| | | | |
|----------------------------|--------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1429E/306/01 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near Chindi Tola Village | Analysis start- End Date: | 30/08/2025-05/09/2025 |
| Env. Cond.-Sampling: | Temp-26°C/ Humidity-81% | 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) | 31.66 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 17.71 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 24.65 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 15.41 | 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) | 0.89 | 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) | 65.95 | 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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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1429E/306/02

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date: 08/09/2025



TC-7073

SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1429E/306/02 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near Haul Road | Analysis start- End Date: | 30/08/2025-05/09/2025 |
| Env. Cond.-Sampling: | Temp-26°C/ Humidity-81% | 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) | 29.58 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 14.63 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 26.10 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 16.05 | 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) | 0.96 | 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) | 59.97 | 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/1429E/306/03

Reporting Date: 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1429E/306/03 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near Explosive Magnine | Analysis start- End Date: | 30/08/2025-05/09/2025 |
| Env. Cond.-Sampling: | Temp-26°C/ Humidity-81% | 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) | 31.24 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 15.61 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 23.20 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 13.49 | 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) | 0.88 | 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) | 67.13 | 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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Gyanvati Shukla



End of Report ---

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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1429E/306/04

Reporting Date: 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1429E/306/04 | Sampling Start Date: | 27/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sampling End Date: | 28/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 30/08/2025 |
| Sample Description: | Near New Mine Colony | Analysis start- End Date: | 30/08/2025-05/09/2025 |
| Env. Cond.-Sampling: | Temp-26°C/ Humidity-81% | 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) | 28.33 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 16.72 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 25.81 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 12.84 | µg/m3 | IS 5182- Part 9 | 180 |
| 5 | Ammonia (NH3) | 9.89 | 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) | 0.92 | 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) | 62.74 | 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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Gyanvati Shukla




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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/05

Reporting Date: 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

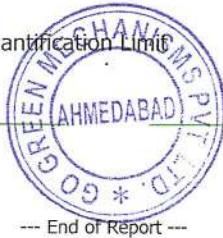
Sampling Date: 27/08/2025
Sample Description: Source Noise

| Sr.No | Lab Id | Location | Time | Unit | Test Method | Reading | Norms |
|-------|--------------------------|----------------------------------|----------|----------|-------------|---------|-------|
| 1 | Lab/PN/1429E/3 06/05A | Near Chindi Tola Village | Day Time | dB(A)Leq | IS 4758 | 59 | - |
| 2 | Lab/PN/1429E/3 06/05B | Near Pit Office-2 Vertical Shaft | Day Time | dB(A)Leq | IS 4758 | 62 | - |
| 3 | Lab/PN/1429E/3 06/05C | Near Vertical Fan | Day Time | dB(A)Leq | IS 4758 | 63 | - |
| 4 | Lab/PN/1429E/3 06/05D | Haul Road | Day Time | dB(A)Leq | IS 4758 | 65 | - |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |

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

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Gyanvati Shukla

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Payal Patel



Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/06

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 08/09/2025



TC-7073

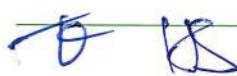
SAMPLE DETAILS

| | | | |
|---------------------|----------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1429E/306/06 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | Chindi Tola Village Open Dugwell | Analysis End Date: | 05/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

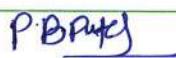
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--------------------------------------|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 200.00 | mg/L | APHA 24th Edn 2320 B | 200 | 600 |
| 2 | Calcium as Ca | 72.94 | mg/L | APHA 24th Edn 3500 Ca B | 75 | 200 |
| 3 | Chloride | 102.80 | mg/L | IS 3025- Part 32 | 250 | 1000 |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | 5 | 15 |
| 5 | Fluoride | 1.02 | mg/L | APHA 24th Edn 4500 F D | 1.0 | 1.5 |
| 6 | Magnesium as Mg | 20.41 | mg/L | APHA 24th Edn 3500 Mg B | 30 | 100 |
| 7 | Odour | Agreeable | - | IS 3025- Part 5 | Agreeable | Agreeable |
| 8 | pH at 25 °C | 7.24 | - | IS 3025- Part 11 | 6.5-8.5 | No relaxation |
| 9 | Sulphate | 40.92 | mg/L | APHA 24th Edn 4500 SO ₄ E | 200 | 400 |
| 10 | Total Dissolved Solids (TDS) | 484.00 | 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 | 266.00 | 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



Reviewed & Authorized by
Tantan Kumar & Dr. Haragobinda Srichandan

Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/06

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 08/09/2025



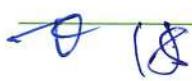
SAMPLE DETAILS

| | | | |
|---------------------|----------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1429E/306/06 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | Chindi Tola Village Open Dugwell | Analysis End Date: | 05/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

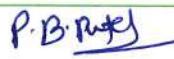
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|--------------------------|--------|---------------|
| 13 | Turbidity | 0.5 | NTU | APHA 24th Edn 2130 B | 1 | 5 |
| 14 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 1 | No relaxation |
| 15 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W & WW/46 | 0.1 | 0.3 |
| 16 | Nitrate | 4.80 | 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/1429E/306/07

M/s Moil Limited
Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 08/09/2025



SAMPLE DETAILS

| | | | |
|---------------------|-------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1429E/306/07 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | Dugwell Near Pit Office | Analysis End Date: | 05/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

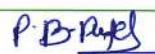
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--------------------------------------|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 205.0 | mg/L | APHA 24th Edn 2320 B | 200 | 600 |
| 2 | Calcium as Ca | 88.18 | mg/L | APHA 24th Edn 3500 Ca B | 75 | 200 |
| 3 | Chloride | 122.66 | mg/L | IS 3025- Part 32 | 250 | 1000 |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | 5 | 15 |
| 5 | Fluoride | 1.12 | mg/L | APHA 24th Edn 4500 F D | 1.0 | 1.5 |
| 6 | Magnesium as Mg | 17.49 | mg/L | APHA 24th Edn 3500 Mg B | 30 | 100 |
| 7 | Odour | Agreeable | - | IS 3025- Part 5 | Agreeable | Agreeable |
| 8 | pH at 25 °C | 7.18 | - | IS 3025- Part 11 | 6.5-8.5 | No relaxation |
| 9 | Sulphate | 44.73 | mg/L | APHA 24th Edn 4500 SO ₄ E | 200 | 400 |
| 10 | Total Dissolved Solids (TDS) | 502.00 | 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 | 292.00 | 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

Reviewed & Authorized by
Payal Patel

Page No : 1/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/07

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 08/09/2025



SAMPLE DETAILS

| | | | |
|---------------------|-------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1429E/306/07 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | Dugwell Near Pit Office | Analysis End Date: | 05/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

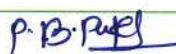
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|--------------------------|--------|---------------|
| 13 | Turbidity | 0.2 | NTU | APHA 24th Edn 2130 B | 1 | 5 |
| 14 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 1 | No relaxation |
| 15 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W & WW/46 | 0.1 | 0.3 |
| 16 | Nitrate | 6.04 | mg/L | APHA 24th Edn 4500 NO3 B | 45 | No relaxation |
| 17 | Total coliform | Absent | Per 100ml | APHA 9221 B 24th Edition | Absent | Absent |
| 18 | E. coli | Absent | Per 100ml | APHA 9221 G 24th Edition | Absent | Absent |

AL & PL as per IS 10500.

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



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Tantan Kumar & Dr. Haragobinda Srichandan

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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/08

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 08/09/2025



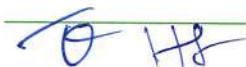
SAMPLE DETAILS

| | | | |
|---------------------|--------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1429E/306/08 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | Dugwell near Haul Road-2 | Analysis End Date: | 05/09/2025 |
| 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 | 210.00 | mg/L | APHA 24th Edn 2320 B | 200 | 600 |
| 2 | Calcium as Ca | 83.37 | mg/L | APHA 24th Edn 3500 Ca B | 75 | 200 |
| 3 | Chloride | 116.96 | mg/L | IS 3025- Part 32 | 250 | 1000 |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | 5 | 15 |
| 5 | Fluoride | 1.16 | mg/L | APHA 24th Edn 4500 F D | 1.0 | 1.5 |
| 6 | Magnesium as Mg | 17.98 | mg/L | APHA 24th Edn 3500 Mg B | 30 | 100 |
| 7 | Odour | Agreeable | - | IS 3025- Part 5 | Agreeable | Agreeable |
| 8 | pH at 25 °C | 7.10 | - | IS 3025- Part 11 | 6.5-8.5 | No relaxation |
| 9 | Sulphate | 45.94 | mg/L | APHA 24th Edn 4500 SO ₄ E | 200 | 400 |
| 10 | Total Dissolved Solids (TDS) | 510.00 | 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 | 282.00 | 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/1429E/306/08

Reporting Date : 08/09/2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105



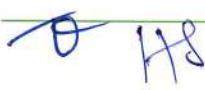
SAMPLE DETAILS

| | | | |
|---------------------|--------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1429E/306/08 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | Dugwell near Haul Road-2 | Analysis End Date: | 05/09/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

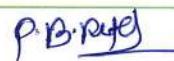
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|--------------------------|--------|---------------|
| 13 | Turbidity | 0.1 | NTU | APHA 24th Edn 2130 B | 1 | 5 |
| 14 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 1 | No relaxation |
| 15 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W & WW/46 | 0.1 | 0.3 |
| 16 | Nitrate | 7.18 | 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/1429E/306/09

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist.
Balaghat (M.P) 481105

Reporting Date : 08/09/2025



TC-7073

SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1429E/306/09 | Sampling Date: | 28/08/2025 |
| Sample Drawn By: | Shailesh Pandey | Sample Receipt Date: | 30/08/2025 |
| Sample Type: | Waste Water | Analysis Start Date: | 30/08/2025 |
| Sample Description: | Near Mine Seepage Vertical-2 | Analysis End Date: | 05/09/2025 |
| 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 | 7.36 | - | IS 3025- Part 11 | - |
| 2 | Total Suspended Solids (TSS) | 12.00 | 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) | 20.00 | mg/L | APHA 24th Edn 5220 B | - |
| 5 | Dissolved Oxygen | 4.2 | mg/L | IS 3025- Part 38 | - |
| 6 | BOD at 27 °C for 3 days | 5.2 | mg/L | IS 3025- Part 44 | - |
| 7 | Manganese | 0.42 | mg/L | GGMPL/SOP/W&WW/46 | - |

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/1429E/306/10

Reporting Date: 08.09.2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

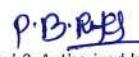
| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1429E/306/10 | Sampling Start Date | : 27.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 28.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 30.08.2025 |
| Sample Location | : Near Chindi Tola Village | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
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Gyanvati Shukla



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Payal Patel



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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/11

Reporting Date: 08.09.2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1429E/306/11 | Sampling Start Date | : 27.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 28.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 30.08.2025 |
| Sample Location | : Near Haul Road | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
| | | | | |
| | | | | |
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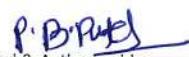


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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/12

Reporting Date: 08.09.2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105



SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1429E/306/12 | Sampling Start Date | : 27.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 28.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 30.08.2025 |
| Sample Location | : Near Explosive Magazine | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
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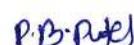


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----End of Report----



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Payal Patel

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1429E/306/13

Reporting Date: 08.09.2025

M/s Moil Limited

Ukwa Manganese Mines L3=48.974 Ha Site PO. Ukwa, Tah. Paraswada, Dist. Balaghat (M.P) 481105



TC-7073

SAMPLE DETAILS

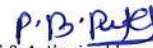
| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1429E/306/13 | Sampling Start Date | : 27.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 28.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 30.08.2025 |
| Sample Location | : Near New Mine Colony | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 81.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 2.1 | m/s | GGMPL/SOP/MP/01 |
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| | | | | |



Reviewed & Authorized by

Gyanvati Shukla



Reviewed & Authorized by

Payal Patel



----End of Report----

Page 1 of 1

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