

CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1164E/258/01

M/s Moil Limited
Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101

Reporting Date: 11/08/2025



SAMPLE DETAILS

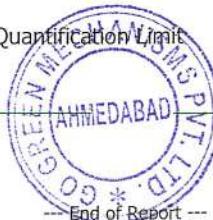
| | | | |
|----------------------------|--------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1164E/258/01 | Sampling Start Date: | 01/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sampling End Date: | 02/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 04/08/2025 |
| Sample Description: | Near Work Shop | Analysis start- End Date: | 04/08/2025-08/08/2025 |
| Env. Cond.-Sampling: | Temp-26°C / Humidity-68% | 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) | 14.99 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 25.22 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 10.83 | µg/m3 | IS 5182- Part 9 | 180 |
| 5 | Ammonia (NH3) | 12.09 | 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) | 66.48 | µg/m3 | IS 5182- Part 23 | 100 |

Norms as per National Ambient Air Quality Standards.

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

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Tantan Kumar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1164E/258/02

Reporting Date: 11/08/2025

M/s Moil Limited
Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101



SAMPLE DETAILS

| | | | |
|----------------------------|---------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1164E/258/02 | Sampling Start Date: | 01/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sampling End Date: | 02/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 04/08/2025 |
| Sample Description: | Near Check Post Main Gate | Analysis start- End Date: | 04/08/2025-08/08/2025 |
| Env. Cond.-Sampling: | Temp-26°C / Humidity-68% | 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) | 33.33 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 15.12 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 27.57 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 12.06 | µg/m3 | IS 5182- Part 9 | 180 |
| 5 | Ammonia (NH3) | 14.78 | 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) | 0.97 | 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) | 67.93 | 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/1164E/258/03

M/s Moil Limited
Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101

Reporting Date: 11/08/2025



SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1164E/258/03 | Sampling Start Date: | 01/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sampling End Date: | 02/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 04/08/2025 |
| Sample Description: | Near Gumgaon Villeage Grampanchayat | Analysis start- End Date: | 04/08/2025-08/08/2025 |
| Env. Cond.-Sampling: | Temp-26°C / Humidity-68% | 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) | 36.66 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 14.05 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 27.98 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 12.06 | µg/m3 | IS 5182- Part 9 | 180 |
| 5 | Ammonia (NH3) | 14.78 | 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) | 69.73 | 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/1164E/258/04

Reporting Date: 11/08/2025

M/s Moil Limited
Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101



SAMPLE DETAILS

| | | | |
|----------------------------|---------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1164E/258/04 | Sampling Start Date: | 01/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sampling End Date: | 02/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 04/08/2025 |
| Sample Description: | Near Crushing Plant | Analysis start- End Date: | 04/08/2025-08/08/2025 |
| Env. Cond.-Sampling: | Temp-27°C /Humidity - 68% | Total Sampling hours: | 24 |
| Env. Cond.-Sample Receipt: | Satisfactory | Env. Cond.-Testing: | 25±5°C |

| Sr.No | Parameters | Results | Unit | Test Method | Norms |
|-------|----------------------------|----------------|-------|------------------|-------|
| 1 | Particulate Matter (PM2.5) | 38.32 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 16.06 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 28.38 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 14.85 | µg/m3 | IS 5182- Part 9 | 180 |
| 5 | Ammonia (NH3) | 16.12 | 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) | 1.05 | 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) | 63.48 | 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/1164E/258/05

Reporting Date: 11/08/2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101



TC-7073

SAMPLE DETAILS

Sampling Instrument : Sound Level Meter
Sample By Shailesh Pandey

Sampling Date: 01/08/2025
Sample Description: Source Noise

| Sr.No | Lab Id | Location | Time | Unit | Test Method | Reading | Norms |
|-------|--------------------------|---------------------------------------|----------|----------|-------------|---------|-------|
| 1 | Lab/PN/1164E/2 58/05A | Near Vertical Fan | Day Time | dB(A)Leq | IS 4758 | 64.1 | - |
| 2 | Lab/PN/1164E/2 58/05B | Near Check Post Main Gate | Day Time | dB(A)Leq | IS 4758 | 62.3 | - |
| 3 | Lab/PN/1164E/2 58/05C | Near Gumgaon Village Grampanchayat | Day Time | dB(A)Leq | IS 4758 | 60.2 | - |
| 4 | Lab/PN/1164E/2 58/05D | Near Bus Stand Khapa Village | Day Time | dB(A)Leq | IS 4758 | 61.7 | - |
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/06

Reporting Date: 11.08.2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1164E/258/06 | Sampling Start Date | : 01.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 02.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 04.08.2025 |
| Sample Location | : Near Work Shop | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 68.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 3.6 | m/s | GGMPL/SOP/MP/01 |
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/07

Reporting Date: 11.08.2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1164E/258/07 | Sampling Start Date | : 01.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 02.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 04.08.2025 |
| Sample Location | : Near Check Post Main Gate | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 68.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 3.6 | m/s | GGMPL/SOP/MP/01 |
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/08

Reporting Date: 11.08.2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

| | | | |
|---------------------|--------------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1164E/258/08 | Sampling Start Date | : 01.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 02.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 04.08.2025 |
| Sample Location | : Near Gumgaon Village Grampanchayat | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 68.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 3.6 | m/s | GGMPL/SOP/MP/01 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Wind Direction= NW



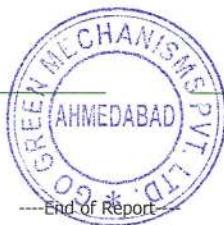
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/09

Reporting Date: 11.08.2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1164E/258/09 | Sampling Start Date | : 01.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 02.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 04.08.2025 |
| Sample Location | : Near Crushing Plant | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 68.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 3.6 | m/s | GGMPL/SOP/MP/01 |
| | | | | |
| | | | | |
| | | | | |
| | | | | |
| | | | | |

Reviewed & Authorized by

Tantan Kumar

Reviewed & Authorized by

Manish Kumawat



----End of Report----

Page 1 of 1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/10

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101

Reporting Date : 11/08/2025



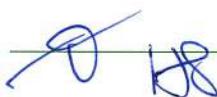
SAMPLE DETAILS

| | | | |
|---------------------|-------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1164E/258/10 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Officer Colony Borewell | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

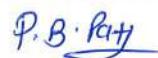
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--------------------------------------|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 289.00 | mg/L | APHA 24th Edn 2320 B | 200 | 600 |
| 2 | Calcium as Ca | 67.33 | mg/L | APHA 24th Edn 3500 Ca B | 75 | 200 |
| 3 | Chloride | 40.49 | mg/L | IS 3025- Part 32 | 250 | 1000 |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | 5 | 15 |
| 5 | Fluoride | 1.02 | mg/L | APHA 24th Edn 4500 F D | 1.0 | 1.5 |
| 6 | Magnesium as Mg | 33.05 | mg/L | APHA 24th Edn 3500 Mg B | 30 | 100 |
| 7 | Odour | Agreeable | - | IS 3025- Part 5 | Agreeable | Agreeable |
| 8 | pH at 25 °C | 7.35 | - | IS 3025- Part 11 | 6.5-8.5 | No relaxation |
| 9 | Sulphate | 32.24 | mg/L | APHA 24th Edn 4500 SO ₄ E | 200 | 400 |
| 10 | Total Dissolved Solids (TDS) | 479.00 | 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 | 304.00 | 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/1164E/258/10

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101

Reporting Date : 11/08/2025



SAMPLE DETAILS

| | | | |
|---------------------|-------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1164E/258/10 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Officer Colony Borewell | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|--------------------------|--------|---------------|
| 13 | Turbidity | 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 | 5.25 | 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



--- End of Report ---



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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/11

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101

Reporting Date : 11/08/2025



TC-7073

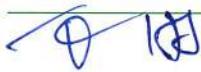
SAMPLE DETAILS

| | | | |
|---------------------|------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1164E/258/11 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Staff Quarter Borewell | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--------------------------------------|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 220.00 | mg/L | APHA 24th Edn 2320 B | 200 | 600 |
| 2 | Calcium as Ca | 73.75 | mg/L | APHA 24th Edn 3500 Ca B | 75 | 200 |
| 3 | Chloride | 16.99 | mg/L | IS 3025- Part 32 | 250 | 1000 |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | 5 | 15 |
| 5 | Fluoride | 0.34 | mg/L | APHA 24th Edn 4500 F D | 1.0 | 1.5 |
| 6 | Magnesium as Mg | 16.52 | 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 | 32.44 | mg/L | APHA 24th Edn 4500 SO ₄ E | 200 | 400 |
| 10 | Total Dissolved Solids (TDS) | 342.00 | 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 | 252.00 | 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/1164E/258/11

Reporting Date : 11/08/2025

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101



SAMPLE DETAILS

| | | | |
|---------------------|------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1164E/258/11 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Staff Quarter Borewell | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|--------------------------|--------|---------------|
| 13 | Turbidity | 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 | 3.62 | 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



Reviewed & Authorized by
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/12

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101

Reporting Date : 11/08/2025



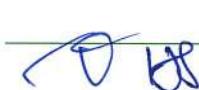
SAMPLE DETAILS

| | | | |
|---------------------|-------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1164E/258/12 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Khapa Village Hand pump | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--------------------------------------|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 295.00 | mg/L | APHA 24th Edn 2320 B | 200 | 600 |
| 2 | Calcium as Ca | 84.17 | mg/L | APHA 24th Edn 3500 Ca B | 75 | 200 |
| 3 | Chloride | 13.49 | mg/L | IS 3025- Part 32 | 250 | 1000 |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | 5 | 15 |
| 5 | Fluoride | 0.44 | mg/L | APHA 24th Edn 4500 F D | 1.0 | 1.5 |
| 6 | Magnesium as Mg | 14.09 | mg/L | APHA 24th Edn 3500 Mg B | 30 | 100 |
| 7 | Odour | Agreeable | - | IS 3025- Part 5 | Agreeable | Agreeable |
| 8 | pH at 25 °C | 7.05 | - | IS 3025- Part 11 | 6.5-8.5 | No relaxation |
| 9 | Sulphate | 1.04 | mg/L | APHA 24th Edn 4500 SO ₄ E | 200 | 400 |
| 10 | Total Dissolved Solids (TDS) | 364.00 | 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 | 268.00 | 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/1164E/258/12

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101

Reporting Date : 11/08/2025



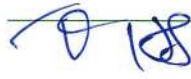
SAMPLE DETAILS

| | | | |
|---------------------|-------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1164E/258/12 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Khapa Village Hand pump | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

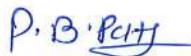
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|--------------------------|--------|---------------|
| 13 | Turbidity | BQL (QL=0.1) | NTU | APHA 24th Edn 2130 B | 1 | 5 |
| 14 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 1 | No relaxation |
| 15 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W & WW/46 | 0.1 | 0.3 |
| 16 | Nitrate | 4.02 | 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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Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/13

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101

Reporting Date : 11/08/2025



TC-7073

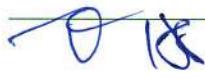
SAMPLE DETAILS

| | | | |
|---------------------|--|----------------------|--------------|
| Lab ID: | Lab/PN/1164E/258/13 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Kodegaon Village Grampanchayat Hand Pump | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/W1/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

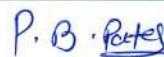
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|---------------------------------|--------------|------|--------------------------------------|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 402.00 | mg/L | APHA 24th Edn 2320 B | 200 | 600 |
| 2 | Calcium as Ca | 62.52 | mg/L | APHA 24th Edn 3500 Ca B | 75 | 200 |
| 3 | Chloride | 45.48 | mg/L | IS 3025- Part 32 | 250 | 1000 |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | 5 | 15 |
| 5 | Fluoride | 1.32 | mg/L | APHA 24th Edn 4500 F D | 1.0 | 1.5 |
| 6 | Magnesium as Mg | 47.63 | mg/L | APHA 24th Edn 3500 Mg B | 30 | 100 |
| 7 | Odour | Agreeable | - | IS 3025- Part 5 | Agreeable | Agreeable |
| 8 | pH at 25 °C | 7.40 | - | IS 3025- Part 11 | 6.5-8.5 | No relaxation |
| 9 | Sulphate | 69.17 | mg/L | APHA 24th Edn 4500 SO ₄ E | 200 | 400 |
| 10 | Total Dissolved Solids (TDS) | 620.00 | mg/L | APHA 24th Edn 2540 C | 500 | 2000 |
| 11 | Total Suspended Solids (TSS) | BQL (QL=5) | mg/L | APHA 24th Edn 2540 D | NS | NS |

AL & PL as per IS 10500.

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/1164E/258/13

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101

Reporting Date : 11/08/2025



SAMPLE DETAILS

| | | | |
|---------------------|--|----------------------|--------------|
| Lab ID: | Lab/PN/1164E/258/13 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Kodegaon Village Grampanchayat Hand Pump | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|---------------|-----------|--------------------------------------|--------|---------------|
| 12 | Total Hardness as CaCO ₃ | 352.00 | mg/L | APHA 24th Edn 2340 C | 200 | 600 |
| 13 | Turbidity | BQL (QL=0.1) | NTU | APHA 24th Edn 2130 B | 1 | 5 |
| 14 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 1 | No relaxation |
| 15 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W & WW/46 | 0.1 | 0.3 |
| 16 | Nitrate | 2.56 | mg/L | APHA 24th Edn 4500 NO ₃ 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



--- End of Report ---

P. B. PATEL
Reviewed & Authorized by
Payal Patel

Page No : 2/2

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/14

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101

Reporting Date : 11/08/2025



SAMPLE DETAILS

| | | | |
|---------------------|---------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1164E/258/14 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Waste Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | STP Outlet | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 4 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | Norm |
|-------|------------------------------|------------|------|----------------------|------------|
| 1 | pH at 25 °C | 7.28 | - | IS 3025- Part 11 | 5.5 to 9.0 |
| 2 | Total Suspended Solids (TSS) | 90.0 | mg/L | APHA 24th Edn 2540 D | 100 |
| 3 | Oil and Grease | BQL (QL=2) | mg/L | IS 3025- Part 39 | 10 |
| 4 | Chemical Oxygen Demand (COD) | 92.00 | mg/L | APHA 24th Edn 5220 B | 250 |
| 5 | Dissolved Oxygen | 4.20 | mg/L | IS 3025- Part 38 | - |
| 6 | BOD at 27 °C for 3 days | 22 | mg/L | IS 3025- Part 44 | 30 |
| 7 | Manganese | 0.88 | mg/L | GGMPL/SOP/W&WW/46 | 2 |

Norms as per CTO.

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

Reviewed & Authorized by
Tantan Kumar



Reviewed & Authorized by
Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1164E/258/15

M/s Moil Limited

Gumgaon Manganese Mines(M.S) L1 P.O Khapa Tah. Saoner Dist. Nagpur
441101

Reporting Date : 11/08/2025



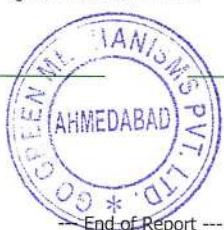
SAMPLE DETAILS

| | | | |
|---------------------|----------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1164E/258/15 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Waste Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Mine Discharge Water | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 4 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | Norm |
|-------|------------------------------|------------|------|----------------------|------|
| 1 | pH at 25 °C | 7.78 | - | IS 3025- Part 11 | - |
| 2 | Total Suspended Solids (TSS) | 52.00 | 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 | 6.10 | mg/L | IS 3025- Part 38 | - |
| 6 | BOD at 27 o C for 3 days | 8.79 | mg/L | IS 3025- Part 44 | - |
| 7 | Manganese | 1.44 | mg/L | GGMPL/SOP/W&WW/46 | - |

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

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Tantan Kumar



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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1165E/259/01

Reporting Date: 09/08/2025

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

| | | | |
|----------------------------|--------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1165E/259/01 | Sampling Start Date: | 01/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sampling End Date: | 02/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 04/08/2025 |
| Sample Description: | Near Rest House | Analysis start- End Date: | 04/08/2025-08/08/2025 |
| Env. Cond.-Sampling: | Temp-26°C / Humidity-68% | 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) | 32.49 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 16.78 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 26.68 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 11.24 | 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) | 66.10 | 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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Manish Kumawat

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1165E/259/02

Reporting Date: 09/08/2025

M/s Moil Limited
Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

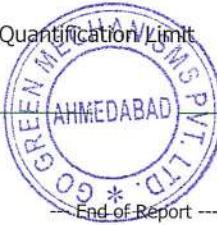
| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1165E/259/02 | Sampling Start Date: | 01/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sampling End Date: | 02/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 04/08/2025 |
| Sample Description: | Near Sand Lease Area | Analysis start- End Date: | 04/08/2025-08/08/2025 |
| Env. Cond.-Sampling: | Temp-26°C/ Humidity-68% | 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) | 29.16 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 15.86 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 25.52 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 13.48 | 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) | 1.04 | 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) | 62.17 | 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/1165E/259/03

Reporting Date: 09/08/2025

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

| | | | |
|----------------------------|-------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1165E/259/03 | Sampling Start Date: | 01/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sampling End Date: | 02/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 04/08/2025 |
| Sample Description: | Near Haul Road | Analysis start- End Date: | 04/08/2025-08/08/2025 |
| Env. Cond.-Sampling: | Temp-26°C/ Humidity-68% | 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) | 35.83 | µg/m3 | GGMPL/SOP/AA/60 | 60 |
| 2 | Sulphur Dioxide (SO2) | 14.93 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 25.93 | 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) | 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) | 64.40 | 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



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Manish Kumawat

Page No : 1/1

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CERTIFICATE OF ANALYSIS

Report Number : GGMPL/PN/1165E/259/04

Reporting Date: 09/08/2025

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

| | | | |
|----------------------------|-----------------------------|---------------------------|-----------------------|
| Lab ID: | Lab/PN/1165E/259/04 | Sampling Start Date: | 01/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sampling End Date: | 02/08/2025 |
| Sample Type: | Ambient Air | Sample Receipt Date: | 04/08/2025 |
| Sample Description: | Near Filtration Plant (WTP) | Analysis start- End Date: | 04/08/2025-08/08/2025 |
| Env. Cond.-Sampling: | Temp-26°C/ Humidity-68% | 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) | 17.53 | µg/m3 | IS 5182-Part 2 | 80 |
| 3 | Oxides of Nitrogen | 28.71 | µg/m3 | IS 5182- Part 6 | 80 |
| 4 | Ozone (O3) | 14.80 | µg/m3 | IS 5182- Part 9 | 180 |
| 5 | Ammonia (NH3) | 12.71 | µg/m3 | GGMPL/SOP/AA/62 | 400 |
| 6 | Benzene | BQL (QL=2.5) | µg/m3 | IS 5182- Part 11 | 5 |
| 7 | Benzo(a) pyrene | BQL (QL=0.5) | ng/m3 | IS 5182- Part 12 | 1 |
| 8 | Carbon Monoxide (CO) | 1.05 | 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) | 59.24 | 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/1165E/259/05

Reporting Date: 09/08/2025

M/s Moil Limited
Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



TC-7073

SAMPLE DETAILS

| | | | |
|-----------------------|-------------------|---------------------|--------------|
| Sampling Instrument : | Sound Level Meter | Sampling Date: | 01/08/2025 |
| Sample By | Shailesh Pandey | Sample Description: | Source Noise |

| Sr.No | Lab Id | Location | Time | Unit | Test Method | Reading | Norms |
|-------|--------------------------|-----------------------------|----------|----------|-------------|---------|-------|
| 1 | Lab/PN/1165E/2 59/05A | Near Rest House | Day Time | dB(A)Leq | IS 4758 | 59 | - |
| 2 | Lab/PN/1165E/2 59/05B | Near Sand Lease Area | Day Time | dB(A)Leq | IS 4758 | 58 | - |
| 3 | Lab/PN/1165E/2 59/05C | Near Haul Road | Day Time | dB(A)Leq | IS 4758 | 61 | - |
| 4 | Lab/PN/1165E/2 59/05D | Near Filtration Plant (WTP) | Day Time | dB(A)Leq | IS 4758 | 65 | - |
| | | | | | | | |
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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/1165E/258/06

Reporting Date: 09.08.2025

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101

SAMPLE DETAILS

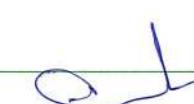
| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1165E/258/06 | Sampling Start Date | : 01.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 02.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 04.08.2025 |
| Sample Location | : Near Rest House | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 68.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 3.6 | m/s | GGMPL/SOP/MP/01 |
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/258/07

Reporting Date: 09.08.2025

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1165E/258/07 | Sampling Start Date | : 01.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 02.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 04.08.2025 |
| Sample Location | : Near Sand Lease Area | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 68.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 3.6 | m/s | GGMPL/SOP/MP/01 |
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/258/08

Reporting Date: 09.08.2025

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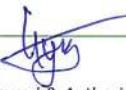
Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

| | | | |
|---------------------|------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1165E/258/08 | Sampling Start Date | : 01.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 02.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 04.08.2025 |
| Sample Location | : Near Haul Road | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 68.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 3.6 | m/s | GGMPL/SOP/MP/01 |
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Report Number: GGMPL/PN/1165E/258/09

Reporting Date: 09.08.2025

M/s Moil Limited

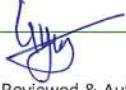
Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

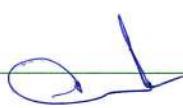
| | | | |
|---------------------|-------------------------------|---------------------|--------------|
| Lab ID | : Lab/PN/1165E/258/09 | Sampling Start Date | : 01.08.2025 |
| Sampling Instrument | : Weather Monitoring Station | Sampling End Date | : 02.08.2025 |
| Sample Type | : Meteorological Parameter | Sample Receipt Date | : 04.08.2025 |
| Sample Location | : Near Filtration Plant (WTP) | | |

| Sr. No. | Parameters | Results | Unit | Test Method |
|---------|--------------------|---------|------|-----------------|
| 1 | Temperature | 26.0 | °C | GGMPL/SOP/MP/01 |
| 2 | Relative Humidity | 68.0 | % | GGMPL/SOP/MP/01 |
| 3 | Rainfall | 0.0 | mm | GGMPL/SOP/MP/01 |
| 4 | Average Wind Speed | 3.6 | m/s | GGMPL/SOP/MP/01 |
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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/259/10

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101

Reporting Date : 09/08/2025



TC-7073

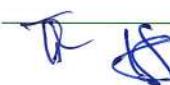
SAMPLE DETAILS

| | | | |
|---------------------|---------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1165E/259/10 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Rest House Borewell | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--------------------------------------|-----------|---------------|
| 1 | Alkalinity as CaCO ₃ | 265.00 | 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 | 15.99 | mg/L | IS 3025- Part 32 | 250 | 1000 |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | 5 | 15 |
| 5 | Fluoride | 0.56 | mg/L | APHA 24th Edn 4500 F D | 1.0 | 1.5 |
| 6 | Magnesium as Mg | 19.44 | mg/L | APHA 24th Edn 3500 Mg B | 30 | 100 |
| 7 | Odour | Agreeable | - | IS 3025- Part 5 | Agreeable | Agreeable |
| 8 | pH at 25 °C | 7.28 | - | IS 3025- Part 11 | 6.5-8.5 | No relaxation |
| 9 | Sulphate | 12.64 | mg/L | APHA 24th Edn 4500 SO ₄ E | 200 | 400 |
| 10 | Total Dissolved Solids (TDS) | 350.00 | 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 | 220.00 | 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

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/259/10

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101

Reporting Date : 09/08/2025



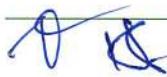
SAMPLE DETAILS

| | | | |
|---------------------|---------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1165E/259/10 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Ground Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Rest House Borewell | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|--------------------------|--------|---------------|
| 13 | Turbidity | 0.23 | 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 | 3.50 | 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 |
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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/1165E/259/11

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101

Reporting Date : 09/08/2025



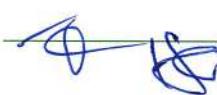
TC-7073

SAMPLE DETAILS

| | | | |
|---------------------|-----------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1165E/259/11 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Surface Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Up Stream Rajna River | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | Norm |
|-------|-------------------------------------|--------------|------|--------------------------------------|------|
| 1 | Alkalinity as CaCO ₃ | 130.00 | mg/L | APHA 24th Edn 2320 B | - |
| 2 | Calcium as Ca | 36.07 | mg/L | APHA 24th Edn 3500 Ca B | - |
| 3 | Chloride | 7.99 | mg/L | IS 3025- Part 32 | - |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | - |
| 5 | Fluoride | 0.68 | mg/L | APHA 24th Edn 4500 F D | - |
| 6 | Magnesium as Mg | 12.15 | mg/L | APHA 24th Edn 3500 Mg B | - |
| 7 | Odour | Agreeable | - | IS 3025- Part 5 | - |
| 8 | pH at 25 °C | 7.49 | - | IS 3025- Part 11 | - |
| 9 | Sulphate | 12.04 | mg/L | APHA 24th Edn 4500 SO ₄ E | - |
| 10 | Total Dissolved Solids (TDS) | 190.00 | mg/L | APHA 24th Edn 2540 C | - |
| 11 | Total Suspended Solids (TSS) | BQL (QL=5) | mg/L | APHA 24th Edn 2540 D | - |
| 12 | Total Hardness as CaCO ₃ | 140.00 | mg/L | APHA 24th Edn 2340 C | - |

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Reporting Date : 09/08/2025

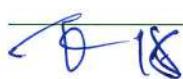


SAMPLE DETAILS

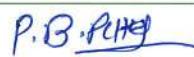
| | | | |
|---------------------|-----------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1165E/259/11 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Surface Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Up Stream Rajna River | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | Norm |
|-------|----------------|---------------|-----------|------------------------------|------|
| 13 | Turbidity | 0.25 | NTU | APHA 24th Edn 2130 B | - |
| 14 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W & WW/46 | - |
| 15 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W & WW/46 | - |
| 16 | Nitrate | 2.65 | mg/L | APHA 24th Edn 4500 NO3 B | - |
| 17 | Total coliform | 540 | MPN/100ml | APHA 9221B 24th Edition 2021 | - |
| 18 | E. coli | 49 | MPN/100ml | APHA 9221G 24th Edition | - |

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CERTIFICATE OF ANALYSIS

Report Number: GGMPL/PN/1165E/259/12

M/s Moil Limited

Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101

Reporting Date : 09/08/2025

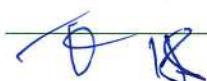


SAMPLE DETAILS

| | | | |
|---------------------|-------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1165E/259/12 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Surface Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Down Stream Rajna River | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | Norm |
|-------|-------------------------------------|--------------|------|--------------------------------------|------|
| 1 | Alkalinity as CaCO ₃ | 125.00 | mg/L | APHA 24th Edn 2320 B | - |
| 2 | Calcium as Ca | 14.43 | mg/L | APHA 24th Edn 3500 Ca B | - |
| 3 | Chloride | 13.49 | mg/L | IS 3025- Part 32 | - |
| 4 | Colour | BQL (QL=2.5) | CU | IS 3025- Part 4 | - |
| 5 | Fluoride | 0.55 | mg/L | APHA 24th Edn 4500 F D | - |
| 6 | Magnesium as Mg | 13.61 | mg/L | APHA 24th Edn 3500 Mg B | - |
| 7 | Odour | Agreeable | - | IS 3025- Part 5 | - |
| 8 | pH at 25 °C | 7.65 | - | IS 3025- Part 11 | - |
| 9 | Sulphate | 5.62 | mg/L | APHA 24th Edn 4500 SO ₄ E | - |
| 10 | Total Dissolved Solids (TDS) | 170.00 | mg/L | APHA 24th Edn 2540 C | - |
| 11 | Total Suspended Solids (TSS) | BQL (QL=5) | mg/L | APHA 24th Edn 2540 D | - |
| 12 | Total Hardness as CaCO ₃ | 136.00 | mg/L | APHA 24th Edn 2340 C | - |

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Reporting Date : 09/08/2025

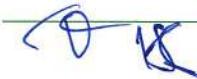


SAMPLE DETAILS

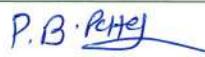
| | | | |
|---------------------|-------------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1165E/259/12 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Surface Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | Down Stream Rajna River | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | Norm |
|-------|----------------|---------------|-----------|------------------------------|------|
| 13 | Turbidity | 0.32 | NTU | APHA 24th Edn 2130 B | - |
| 14 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W & WW/46 | - |
| 15 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W & WW/46 | - |
| 16 | Nitrate | 2.15 | mg/L | APHA 24th Edn 4500 NO3 B | |
| 17 | Total coliform | BQL (QL=1.8) | MPN/100ml | APHA 9221B 24th Edition 2021 | - |
| 18 | E. coli | BQL (QL=1.8) | MPN/100ml | APHA 9221G 24th Edition | - |

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Reporting Date : 09/08/2025



SAMPLE DETAILS

| | | | |
|---------------------|---------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1165E/259/13 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | WTP Outlet Water | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

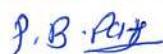
| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|-------------------------------------|--------------|------|--|---------------------|---------------|
| 1 | Alkalinity as CaCO ₃ | 85.00 | mg/L | APHA 24th Edition (2320 B) | 200 | 600 |
| 2 | Calcium as Ca | 39.28 | mg/L | APHA 24th Edition (3500 Ca B) | 75 | 200 |
| 3 | Chloride | 15.49 | 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 | 15.55 | mg/L | APHA 24th Edition (3500 Mg B) | 30 | 100 |
| 6 | Odour | Agreeable | - | IS 3025 Part 5 | Agreeable Agreeable | |
| 7 | pH at 25 °C | 7.50 | - | IS 3025-Part 11 | 6.5-8.5 | No Relaxation |
| 8 | Sulphate | 20.56 | mg/L | APHA 24th Edition (4500 SO ₄ E) | 200 | 400 |
| 9 | Total Dissolved Solids (TDS) | 190.00 | mg/L | APHA 24th Edition (2540 C) | 500 | 2000 |
| 10 | Total Hardness as CaCO ₃ | 162.00 | 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.

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Rajna Ramdongri Sand Leases P.O Khapa Tah. Saoner Dist. Nagpur 441101



SAMPLE DETAILS

| | | | |
|---------------------|---------------------|----------------------|--------------|
| Lab ID: | Lab/PN/1165E/259/13 | Sampling Date: | 02/08/2025 |
| Sample Drawn By: | Shailesh kumar | Sample Receipt Date: | 04/08/2025 |
| Sample Type: | Drinking Water | Analysis Start Date: | 04/08/2025 |
| Sample Description: | WTP Outlet Water | Analysis End Date: | 08/08/2025 |
| Sample Quantity: | 6 L | Sampling Method: | GGMPL/WI/27A |
| Sample Condition: | Satisfactory | Packing: | Sealed |

| Sr.No | Parameters | Results | Unit | Test Method | AL | PL |
|-------|----------------|---------------|-----------|----------------------------|--------|---------------|
| 13 | Iron | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 1.0 | No Relaxation |
| 14 | Manganese | BQL (QL=0.05) | mg/L | GGMPL/SOP/W&WW/46 | 0.1 | 0.3 |
| 15 | Fluoride | 1.04 | mg/L | APHA 24th Edn 4500 F D | 1 | 1.5 |
| 16 | Nitrate | 3.22 | mg/L | APHA 24th Edn 4500 NO3 B | 45 | No Relaxation |
| 17 | Total coliform | Absent | per 100ml | APHA 9222 A&B 24th Edition | Absent | Absent |
| 18 | E.coli | Absent | per 100ml | APHA 9222H 24th Edition | Absent | Absent |

AL & PL as per IS 10500.

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