



DEVBHOOMI TESTING LABORATORY DEHRADUN

NABL Accredited, Govt. Approved, MSME Registered, & ISO : 9001:2015 & 14001: 2015 Certified Laboratory

Neelkanth Enclave, Harbhajwala, Telpur Chowk, Shimla By Pass Road, Dehradun 248171

Mob: +91-7217360360, +91-7579118238, 8859392493, 9760764229

Email: devbhoomilab@gmail.com

TEST REPORT

| | |
|--|--|
| Description of Sample: Surface Water | Report No.: DTL/DDN/2025/0804/09 |
| Sample Id: 08042025/09 | Date of Report: 16/04/2025 |
| Sample Quantity: As per requirement | Date of Sampling: 08/04/2025 |
| Sample Condition: Receipt as OK | Start Date of Testing: 11/04/2025 |
| Sample Plan & Sampling Method: NA | Date of Completion: 16/04/2025 |
| Environment Condition (Temp. & Humidity): NA | Page 1 of 1 |
| Addition to, Deviation or Exclusion from the Method: NA | |
| N.O.W: Construction of 18m Span RCC Motor bridge in km 4, at Nandprayag Ghat Motorway under U-PREPARE Project. | |
| Issued to: M/S ARKS UNIVERSAL PRIVATE LIMITED | |

Sample: 01 (Km-4)

| S.No. | Characteristics | Test Value | Max. Permissible Limit as per IS:456-2000(Clause 5.4) | Method of test ref to: |
|-------|--|------------|--|--------------------------------|
| 1. | Requirement of 0.02N-NaO ₂ to neutralize 100ml. of water sample using Phenolphthalein indicator | 0.56 | 5.0 ml. | IS-3025 (P-22) 1986RA:2019 |
| 2. | Requirement of 0.02 N-H ₂ SO ₄ to neutralize 100ml of water sample using mixed indicator | 6.3 | 25.0 ml. | IS-3025 (P-23) 1986RA:2019 |
| 3. | Organics, mg/l. | 89 | 200 | IS:3025 (P-18)2022 |
| 4. | Inorganic, mg/l. | 121 | 3000 | IS:3025 (P-18)2022 |
| 5. | Sulphate as SO ₃ , mg/l. | 29 | 400 | IS: 3025(P-24)1986RA:2019 |
| 6. | Chloride as Cl, mg/l | 26 | 500 mg/l for RCC & 200 mg/l for concrete without embedded steel. | IS: 3025 (P-32) 1988RA:2019 |
| 7. | pH | 8.2 | Not less than 6.0 | IS:3025 (P-11)2022 |
| 8. | Suspended matter, mg/l | 182 | 2000 | IS:3025 (P-17)2022 |

*****End of Report*****

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Authorised Signatory

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- Total liability of our lab is limited to the invoiced amount.
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TEST REPORT

| | |
|--|--|
| Description of Sample: Surface Water | Report No.: DTL/DDN/2025/0804/10 |
| Sample Id: 08042025/10 | Date of Report: 16/04/2025 |
| Sample Quantity: 1 Ltr. | Date of Sampling: 08/04/2025 |
| Sample Condition: Receipt as OK | Start Date of Testing: 11/04/2025 |
| Sample Plan & Sampling Method: NA | Date of Completion: 16/04/2025 |
| Environment Condition (Temp. & Humidity): NA | Page 1 of 1 |
| Addition to, Deviation or Exclusion from the Method: NA | |
| N.O.W: Construction of 18m Span RCC Motor bridge in km 4, at Nandprayag Ghat Motorway under U-PREPARE Project. | |
| Issued to: M/S ARKS UNIVERSAL PRIVATE LIMITED | |

Sample: 02 (Km-4)

| S. No. | Characteristics | Test Value | Max. Permissible Limit as per IS:456-2000(Clause 5.4) | Method of test ref to: |
|--------|--|------------|--|--------------------------------|
| 1. | Requirement of 0.02N-NaO ₂ to neutralize 100ml of water sample using Phenolphthalein indicator | 0.53 | 5.0 ml. | IS-3025 (P-22) 1986RA:2019 |
| 2. | Requirement of 0.02 N-H ₂ SO ₄ to neutralize 100ml of water sample using mixed indicator | 6.29 | 25.0ml. | IS-3025 (P-23) 1986RA:2019 |
| 3. | Organics, mg/l. | 86 | 200 | IS:3025 (P-18)2022 |
| 4. | Inorganic, mg/l. | 120 | 3000 | IS:3025 (P-18)2022 |
| 5. | Sulphate as SO ₄ , mg/l. | 26 | 400 | IS: 3025(P-24)1986RA:2019 |
| 6. | Chloride as Cl, mg/l | 29 | 500mg/1 for RCC & 200mg/1 for concrete without embedded steel. | IS: 3025 (P-32) 1988RA:2019 |
| 7. | pH | 8.68 | Not less than 6.0 | IS:3025 (P-11)2022 |
| 8. | Suspended matter, mg/l | 189 | 2000 | IS:3025 (P-17)2022 |

*****End of Report*****

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Email: devbhoomilab@gmail.com

TEST REPORT

| | |
|--|--|
| Description of Sample: Surface Water | Report No.: DTL/DDN/2025/0704/54 |
| Sample Id: 07042025/54 | Date of Report: 15/04/2025 |
| Sample Quantity: As per requirement | Date of Sampling: 07/04/2025 |
| Sample Condition: Receipt as OK | Start Date of Testing: 10/04/2025 |
| Sample Plan & Sampling Method: NA | Date of Completion: 15/04/2025 |
| Environment Condition (Temp. & Humidity): NA | Page 1 of 1 |
| Addition to, Deviation or Exclusion from the Method: NA | |
| N.O.W: Construction of 15 m Span RCC Motor bridge in km 8-(HM 2-4), at Nandprayag Ghat Motorway under U-PREPARE Project. | |
| Issued to: M/S ARKS UNIVERSAL PRIVATE LIMITED | |

Sample: 01 Km-08

| S. No. | Characteristics | TestValue | Max. Permissible Limit as per IS:456-2000(Clause 5.4) | Method of test ref to: |
|--------|--|-----------|--|--------------------------------|
| 1. | Requirement of 0.02N-NaO ₂ to neutralize 100ml.of water sample using Phenolphthalein indicator | 1.36 | 5.0 ml. | IS-3025 (P-22) 1986RA:2019 |
| 2. | Requirement of 0.02 N-H ₂ SO ₄ to neutralize 100ml of water sample using mixed indicator | 8.12 | 25.0ml. | IS-3025 (P-23) 1986RA:2019 |
| 3. | Organics,mg/l. | 87 | 200 | IS:3025 (P-18)2022 |
| 4. | Inorganic, mg/l. | 118 | 3000 | IS:3025 (P-18)2022 |
| 5. | Sulphate as SO ₄ , mg/l. | 33.60 | 400 | IS: 3025(P-24)1986RA:2019 |
| 6. | Chloride as Cl,mg/l | 26.28 | 500mg/1 for RCC & 200mg/1 for concrete without embedded steel. | IS: 3025 (P-32) 1988RA:2019 |
| 7. | pH | 9.69 | Not less than 6.0 | IS:3025 (P-11)2022 |
| 8. | Suspended matter,mg/l | 128 | 2000 | IS:3025 (P-17)2022 |

*****End of Report*****



Devbhoomi
Technical Manager
Dehradun

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Email: devbhoomilab@gmail.com

TEST REPORT

| | |
|--|--|
| Description of Sample: Surface Water | Report No.: DTL/DDN/2025/0704/55 |
| Sample Id: 07042025/55 | Date of Report: 15/04/2025 |
| Sample Quantity: 1 Ltr. | Date of Sampling: 07/04/2025 |
| Sample Condition: Receipt as OK | Start Date of Testing: 10/04/2025 |
| Sample Plan & Sampling Method: NA | Date of Completion: 15/04/2025 |
| Environment Condition (Temp. & Humidity): NA | Page 1 of 1 |
| Addition to, Deviation or Exclusion from the Method: NA | |
| N.O.W: Construction of 15 m Span RCC Motor bridge in km 8-(HM 2-4), at Nandprayag Ghat Motorway under U-PREPARE Project. | |
| Issued to: M/S ARKS UNIVERSAL PRIVATE LIMITED | |

Sample: 02(Km-08)

| S. No. | Characteristics | Test Value | Max. Permissible Limit as per IS:456-2000(Clause 5.4) | Method of test ref to: |
|--------|--|------------|--|--------------------------------|
| 1. | Requirement of 0.02N-Noa to neutralize 100ml. of water sample using Phenolphthalein indicator | 1.34 | 5.0 ml. | IS-3025 (P-22) 1986RA:2019 |
| 2. | Requirement of 0.02 N-H ₂ SO ₄ to neutralize 100ml of water sample using mixed indicator | 8.16 | 25.0ml. | IS-3025 (P-23) 1986RA:2019 |
| 3. | Organics, mg/l. | 89 | 200 | IS:3025 (P-18)2022 |
| 4. | Inorganic, mg/l. | 126 | 3000 | IS:3025 (P-18)2022 |
| 5. | Sulphate as SO ₃ , mg/l. | 33.52 | 400 | IS: 3025(P-24)1986RA:2019 |
| 6. | Chloride as Cl, mg/l | 27 | 500mg/1 for RCC & 200mg/1 for concrete without embedded steel. | IS: 3025 (P-32) 1988RA:2019 |
| 7. | pH | 9.36 | Not less than 6.0 | IS:3025 (P-11)2022 |
| 8. | Suspended matter, mg/l | 131 | 2000 | IS:3025 (P-17)2022 |

*****End of Report*****



Dehradun
Technical Manager
Debhoomi Testing Laboratory

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Email: devbhoomilab@gmail.com

TEST REPORT

| | |
|--|--|
| Description of Sample: Surface Water | Report No.: DTL/DDN/2025/0704/56 |
| Sample Id: 07042025/56 | Date of Report: 15/04/2025 |
| Sample Quantity: As per requirement | Date of Sampling: 07/04/2025 |
| Sample Condition: Receipt as OK | Start Date of Testing: 10/04/2025 |
| Sample Plan & Sampling Method: NA | Date of Completion: 15/04/2025 |
| Environment Condition (Temp. & Humidity): NA | Page 1 of 1 |
| Addition to, Deviation or Exclusion from the Method: NA | |
| N.O.W : Construction of 30m Span Steel Truss Motor bridge in km 8-(HM 8-10), at Nandprayag Ghat Motorway under U-PREPARE Project. | |
| Issued to: M/S ARKS UNIVERSAL PRIVATE LIMITED | |

Sample: 01 (Km-8)

| S. No. | Characteristics | TestValue | Max. Permissible Limit as per IS:456-2000(Clause 5.4) | Method of test ref to: |
|--------|--|-----------|--|--------------------------------|
| 1. | Requirement of 0.02N-Noa to neutralize 100ml. of water sample using Phenolphthalein indicator | 1.6 | 5.0 ml. | IS-3025 (P-22) 1986RA:2019 |
| 2. | Requirement of 0.02 N-H ₂ SO ₄ to neutralize 100ml of water sample using mixed indicator | 11.46 | 25.0 ml. | IS-3025 (P-23) 1986RA:2019 |
| 3. | Organics, mg/l. | 92 | 200 | IS:3025 (P-18)2022 |
| 4. | Inorganic, mg/l. | 142 | 3000 | IS:3025 (P-18)2022 |
| 5. | Sulphate as SO ₃ , mg/l. | 46 | 400 | IS: 3025(P-24)1986RA:2019 |
| 6. | Chloride as Cl, mg/l | 38 | 500mg/1 for RCC & 200mg/1 for concrete without embedded steel. | IS: 3025 (P-32) 1988RA:2019 |
| 7. | pH | 10.63 | Not less than 6.0 | IS:3025 (P-11)2022 |
| 8. | Suspended matter, mg/l | 196 | 2000 | IS:3025 (P-17)2022 |

*****End of Report*****



Devbhoomi
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Dehradun

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TEST REPORT

| | |
|--|--|
| Description of Sample: Surface Water | Report No.: DTL/DDN/2025/0704/57 |
| Sample Id: 07042025/57 | Date of Report: 15/04/2025 |
| Sample Quantity: 1 Ltr. | Date of Sampling: 07/04/2025 |
| Sample Condition: Receipt as OK | Start Date of Testing: 10/04/2025 |
| Sample Plan & Sampling Method: NA | Date of Completion: 15/04/2025 |
| Environment Condition (Temp. & Humidity): NA | Page 1 of 1 |
| Addition to, Deviation or Exclusion from the Method: NA | |
| N.O.W : Construction of 30m Span Steel Truss Motor bridge in km 8-(HM 8-10), at Nandprayag Ghat Motorway under U-PREPARE Project. | |
| Issued to: M/S ARKS UNIVERSAL PRIVATE LIMITED | |

Sample: 02 (Km-8)

| S. No. | Characteristics | Test Value | Max. Permissible Limit as perIS:456-2000(Clause 5.4) | Methodoftestrefto: |
|--------|---|------------|--|--------------------------------|
| 1. | Requirement of 0.02N-Noa to neutralize 100ml.of watersample using Phenolphthalein indicator | 1.52 | 5.0 ml. | IS-3025 (P-22) 1986RA:2019 |
| 2. | Requirement of 0.02 N-H ₂ SO ₄ to neutralize 100ml of watersample using mixed indicator | 11.14 | 25.0ml. | IS-3025 (P-23) 1986RA:2019 |
| 3. | Organics,mg/l. | 98 | 200 | IS:3025 (P-18)2022 |
| 4. | Inorganic, mg/l. | 146 | 3000 | IS:3025 (P-18)2022 |
| 5. | SulphateasSO ₃ , mg/l. | 48 | 400 | IS: 3025(P-24)1986RA:2019 |
| 6. | ChlorideasCl,mg/l | 36 | 500mg/1forRCC&200mg/1forconcrete without embedded steel. | IS: 3025 (P-32) 1988RA:2019 |
| 7. | pH | 10.65 | Not less than 6.0 | IS:3025 (P-11)2022 |
| 8. | Suspended matter,mg/l | 194 | 2000 | IS:3025 (P-17)2022 |

*****EndofReport*****



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TEST REPORT

| | |
|---|--|
| Description of Sample: Surface Water | Report No.: DTL/DDN/2025/0704/58 |
| Sample Id: 07042025/58 | Date of Report: 15/04/2025 |
| Sample Quantity: As per requirement | Date of Sampling: 07/04/2025 |
| Sample Condition: Receipt as OK | Start Date of Testing: 10/04/2025 |
| Sample Plan & Sampling Method: NA | Date of Completion: 15/04/2025 |
| Environment Condition (Temp. & Humidity): NA | Page 1 of 1 |
| Addition to, Deviation or Exclusion from the Method: NA | |
| N.O.W : Construction of 24 m Span Steel Truss Motor bridge in km 12, at Nandprayag Ghat Motorway under U-PREPARE Project | |
| Issued to: M/S ARKS UNIVERSAL PRIVATE LIMITED | |

Sample: 01(Km-12)

| S. No. | Characteristics | TestValue | Max. Permissible Limit as per IS:456-2000(Clause 5.4) | Method of test ref to: |
|--------|--|-----------|--|---------------------------------|
| 1. | Requirement of 0.02N-NaO ₂ to neutralize 100ml of water sample using Phenolphthalein indicator | 1.65 | 5.0 ml. | IS-3025 (P-22) 1986 RA:2019 |
| 2. | Requirement of 0.02 N-H ₂ SO ₄ to neutralize 100ml of water sample using mixed indicator | 7.34 | 25.0 ml. | IS-3025 (P-23) 1986 RA:2019 |
| 3. | Organics, mg/l. | 88 | 200 | IS:3025 (P-18)2022 |
| 4. | Inorganic, mg/l. | 118 | 3000 | IS:3025 (P-18)2022 |
| 5. | Sulphate as SO ₄ , mg/l. | 25.36 | 400 | IS: 3025(P-24)1986 RA:2019 |
| 6. | Chloride as Cl, mg/l | 29 | 500 mg/l for RCC & 200 mg/l for concrete without embedded steel. | IS: 3025 (P-32) 1988 RA:2019 |
| 7. | pH | 8.3 | Not less than 6.0 | IS:3025 (P-11)2022 |
| 8. | Suspended matter, mg/l | 194 | 2000 | IS:3025 (P-17)2022 |

*****End of Report*****

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TEST REPORT

| | |
|--|--|
| Description of Sample: Surface Water | Report No.: DTL/DDN/2025/0704/59 |
| Sample Id: 07042025/59 | Date of Report: 15/04/2025 |
| Sample Quantity: 1 Ltr. | Date of Sampling: 07/04/2025 |
| Sample Condition: Receipt as OK | Start Date of Testing: 10/04/2025 |
| Sample Plan & Sampling Method: NA | Date of Completion: 15/04/2025 |
| Environment Condition (Temp. & Humidity): NA | Page 1 of 1 |
| Addition to, Deviation or Exclusion from the Method: NA | |
| N.O.W Construction of 24 m Span Steel Truss Motor bridge in km 12, at Nandprayag Ghat Motorway under U-PREPARE Project | |
| Issued to: M/S ARKS UNIVERSAL PRIVATE LIMITED | |

Sample: 02(Km-12)

| S. No. | Characteristics | Test Value | Max. Permissible Limit as per IS:456-2000(Clause 5.4) | Method of test ref to: |
|--------|--|------------|--|--------------------------------|
| 1. | Requirement of 0.02N-Noa to neutralize 100ml. of water sample using Phenolphthalein indicator | 1.65 | 5.0 ml. | IS-3025 (P-22) 1986RA:2019 |
| 2. | Requirement of 0.02 N-H ₂ SO ₄ to neutralize 100ml of water sample using mixed indicator | 7.34 | 25.0ml. | IS-3025 (P-23) 1986RA:2019 |
| 3. | Organics, mg/l. | 88 | 200 | IS:3025 (P-18)2022 |
| 4. | Inorganic, mg/l. | 118 | 3000 | IS:3025 (P-18)2022 |
| 5. | Sulphate as SO ₃ , mg/l. | 25.36 | 400 | IS: 3025(P-24)1986RA:2019 |
| 6. | Chloride as Cl, mg/l | 29 | 500mg/1 for RCC & 200mg/1 for concrete without embedded steel. | IS: 3025 (P-32) 1988RA:2019 |
| 7. | pH | 8.3 | Not less than 6.0 | IS:3025 (P-11)2022 |
| 8. | Suspended matter, mg/l | 194 | 2000 | IS:3025 (P-17)2022 |

*****End of Report*****



Devbhoomi
Technical Manager
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