



# DEVBHOMI 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

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

Email: devbhoomilab@gmail.com

Diving - Construction

## 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 0.02 N-Noa to neutralize 100ml of water sample using Phenolphthalein indicator	0.56	5.0 ml.	IS-3025 (P-22) 1986 RA:2019
2.	Requirement of 0.02 N-H <sub>2</sub> SO <sub>4</sub> to neutralize 100ml of water sample using mixed indicator	6.3	25.0 ml.	IS-3025 (P-23) 1986 RA: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 <sub>3</sub> , mg/l.	29	400	IS: 3025(P-24) 1986 RA:2019
6.	Chloride as Cl, mg/l	26	500 mg/l for RCC & 200 mg/l for concrete with embedded steel.	IS: 3025 (P-32) 1988 RA: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\*\*\*\*\*

A. Chaudhary  
Engr BPPA FPCU PWUD  
D.O.B.

Shivam  
KTC

*Arvind*

Checked & Issued by  
Authorised Signatory

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- 2. Total liability of our lab is limited to the invoiced amount.
- 3. Sample not drawn by lab and sample will be destroyed after 90 days from the date of issue of test report.
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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	TestValue	Max. Permissible Limit as per IS:456-2000(Clause 5.4)	Methodoftestref to:
1.	Requirement of 0.02N-Noa 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 <sub>2</sub> SO <sub>4</sub> 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 <sub>4</sub> , mg/l.	26	400	IS: 3025(P-24)1986RA:2019
6.	Chloride as Cl, mg/l	29	500mg/l for RCC & 200mg/l 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\*\*\*\*\*

Acknowledged  
Enr. Engr. E&E. PWD PWU.  
D.D.

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Authorised Signatory

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## 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	Test Value	Max. Permissible Limit as per IS:456-2000(Clause 5.4)	Method of test ref to:
1.	Requirement of 0.02 N-Naoh 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 <sub>2</sub> SO <sub>4</sub> to neutralize 100ml of water sample using mixed indicator	8.12	25.0 ml.	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 <sub>3</sub> , mg/l.	33.60	400	IS: 3025(P-24)1986RA:2019
6.	Chloride as Cl, mg/l	26.28	500 mg/l for RCC & 200 mg/l 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\*\*\*\*\*

pkclark  
Engr. Pkp. FPLW PLD

D.D.

Amit

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## 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 0.02 N-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 <sub>2</sub> SO <sub>4</sub> to neutralize 100ml of water sample using mixed indicator	8.16	25.0 ml.	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 <sub>4</sub> , mg/l.	33.52	400	IS: 3025(P-24)1986RA:2019
6.	Chloride as Cl, mg/l	27	500 mg/l for RCC & 200 mg/l 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\*\*\*\*\*

*N. Chauhan,  
Engr. Exp. APDU PWD,*

D.P.

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## 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	Test Value	Max. Permissible Limit as per IS:456-2000(Clause 5.4)	Method of test ref to:
1.	Requirement of 0.02N-NaO <sub>2</sub> 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 <sub>2</sub> SO <sub>4</sub> to neutralize 100ml of water sample using mixed indicator	11.46	25.0ml.	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 <sub>4</sub> , mg/l.	46	400	IS: 3025(P-24)1986RA:2019
6.	Chloride as Cl, mg/l	38	500mg/l for RCC & 200mg/l 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\*\*\*\*

*Atchand  
Enr. EXP ARKS PWD,  
D.P.*

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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 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	1.52	5.0 ml.	IS-3025 (P-22) 1986RA:2019
2.	Requirement of 0.02 N-H <sub>2</sub> SO <sub>4</sub> to neutralize 100ml of water sample 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.	Sulphate as SO <sub>4</sub> , mg/l.	48	400	IS: 3025(P-24)1986RA:2019
6.	Chloride as Cl, mg/l	36	500mg/l for RCC & 200mg/l for concrete 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

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

Attn: Mr. S. K. Singh  
Engr. Exp. F.P.S. P.W.D.

D.B.

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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	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 <sub>2</sub> SO <sub>4</sub> 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 <sub>3</sub> , mg/l.	25.36	400	IS: 3025(P-24)1986RA:2019
6.	Chloride as Cl, mg/l	29	500mg/l for RCC & 200mg/l 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\*\*\*\*\*

*Acknowledged.  
FASR F-2025-18238  
D.D.*

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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 0.02 N-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 <sub>2</sub> SO <sub>4</sub> to neutralize 100ml of water sample using mixed indicator	7.34	25.0 ml.	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 <sub>3</sub> , mg/l.	25.36	400	IS: 3025(P-24)1986RA: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) 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\*\*\*\*\*

A. Damani  
Env. Exp. P.P.C.U.P.W.S.  
D.D.

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