

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE  
(SAMPLING DATE 27/03/2025)**

| <b>Parameters</b>                         | <b>Permissible Limit</b> | <b>Maximum Limit</b> | <b>P3</b> | <b>P7</b> | <b>P11</b> | <b>P12</b> | <b>P13</b> | <b>P14</b> | <b>P15</b> | <b>P16</b> |
|-------------------------------------------|--------------------------|----------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|
| pH                                        | 6.5 to 8.5               | No relaxation        | 8.33      | 8.21      | 8.15       | 8.36       | 8.30       | 8.11       | 8.27       | 8.32       |
| TDS (mg/l)                                | 500                      | 2000                 | 456       | 653       | 672        | 424        | 586        | 694        | 757        | 450        |
| Hardness (as CaCO <sub>3</sub> ) (mg/l)   | 200                      | 600                  | 110       | 120       | 130        | 100        | 110        | 140        | 170        | 100        |
| Alkalinity (as CaCO <sub>3</sub> ) (mg/l) | 200                      | 600                  | 300       | 270       | 280        | 290        | 270        | 260        | 310        | 280        |
| Nitrate (mg/l)                            | 45                       | No relaxation        | 0.08      | 0.09      | 0.11       | 0.07       | 0.06       | 0.08       | 0.07       | 0.09       |
| Sulfate (mg/l)                            | 200                      | 400                  | 28.89     | 30.63     | 46.63      | 39.05      | 56.84      | 44.84      | 45.15      | 38.89      |
| Fluoride (mg/l)                           | 1                        | 1.5                  | 0.764     | 0.586     | 0.621      | 0.851      | 0.737      | 0.628      | 0.613      | 0.891      |
| Chloride (mg/l)                           | 250                      | 1000                 | 145       | 275       | 300        | 105        | 185        | 295        | 330        | 125        |
| Turbidity (NTU)                           | 1                        | 5                    | 0.001     | 0.001     | 0.001      | 0.001      | 0.001      | 0.001      | 0.001      | 0.001      |
| Arsenic (mg/l)                            | 0.01                     | No relaxation        | 0.0036    | 0.0033    | 0.0026     | 0.0035     | 0.0034     | 0.0030     | 0.0037     | 0.0033     |
| Copper (mg/l)                             | 0.05                     | 1.5                  | 0.0014    | 0.0017    | 0.0015     | 0.0011     | 0.0012     | 0.0015     | 0.0012     | 0.0015     |
| Cadmium (mg/l)                            | 0.003                    | No relaxation        | BDL       | BDL       | BDL        | BDL        | BDL        | BDL        | BDL        | BDL        |
| Chromium (mg/l)                           | 0.05                     | No relaxation        | 0.0011    | 0.0009    | 0.0014     | 0.0007     | 0.0009     | 0.0008     | 0.0010     | 0.0012     |
| Lead (mg/l)                               | 0.01                     | No relaxation        | BDL       | BDL       | BDL        | BDL        | BDL        | BDL        | BDL        | BDL        |
| Iron (mg/l)                               | 1.0                      | No relaxation        | 0.14      | 0.19      | 0.12       | 0.17       | 0.15       | 0.19       | 0.21       | 0.16       |
| Zinc (mg/l)                               | 5                        | 15                   | BDL       | BDL       | BDL        | 0.0092     | 0.0041     | BDL        | BDL        | BDL        |
| Fecal Coliform (cfu)                      | 0                        | 0                    | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          |
| E. Coli (cfu)                             | 0                        | 0                    | 0         | 0         | 0          | 0          | 0          | 0          | 0          | 0          |

**Sampling Locations:** P3 - Behind Helicopter building,  
P7 - Near water tank and main entrance of VH-Extension, type-1,  
P11 - Hall 10 back side,  
P12 - Near about 150 M of P-2 (end of lane-36),  
P13 - Near Visiting Faculty Apartment,  
P14 - Near Hall 12,  
P15 - Behind New Sac,  
P16 - Near duplex type-3

**BDL Below Detection Limit; NTU – Nephelometric Turbidity Unit; cfu- Colony forming Units in 100 ml of the sample.**

**Detection Limits Pb 0.0001 mg/l, Cu 0.0001 mg/l, Cr 0.0005 mg/l, Fe 0.0001 mg/l, Cd 0.0004 mg/l, As 0.0001 mg/l, Zn 0.0005 mg/l.**