

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE
(SAMPLING DATE - 27/11/2025)**

| Parameters | Permissible Limit | Maximum Limit | P3 | P7 | P11 | P12 | P13 | P14 | P15 | P16 | P17 |
|--|--------------------------|----------------------|-----------|-----------|------------|------------|------------|------------|------------|------------|------------|
| pH | 6.5 to 8.5 | No relaxation | 8.09 | 7.79 | 8.11 | 8.23 | 7.94 | 8.35 | 8.19 | 8.42 | 8.28 |
| TDS (mg/l) | 500 | 2000 | 441 | 637 | 646 | 406 | 649 | 589 | 754 | 430 | 607 |
| Hardness (as CaCO ₃) (mg/l) | 200 | 600 | 100 | 150 | 140 | 110 | 160 | 140 | 170 | 110 | 120 |
| Alkalinity(as CaCO ₃) (mg/l) | 200 | 600 | 300 | 260 | 240 | 290 | 250 | 260 | 290 | 300 | 270 |
| Nitrate (mg/l) | 45 | No relaxation | 0.08 | 0.11 | 0.09 | 0.06 | 0.08 | 0.07 | 0.09 | 0.07 | 0.08 |
| Sulfate (mg/l) | 200 | 400 | 45.32 | 36.27 | 39.55 | 47.82 | 53.74 | 33.68 | 49.25 | 31.14 | 44.98 |
| Fluoride (mg/l) | 1 | 1.5 | 0.859 | 0.632 | 0.683 | 0.881 | 0.712 | 0.694 | 0.645 | 0.875 | 0.753 |
| Chloride (mg/l) | 250 | 1000 | 130 | 275 | 280 | 105 | 270 | 200 | 320 | 120 | 240 |
| Turbidity (NTU) | 1 | 5 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 | 0.001 |
| Arsenic (mg/l) | 0.01 | No relaxation | 0.0029 | 0.0017 | 0.0018 | 0.0025 | 0.0016 | 0.0022 | 0.0024 | 0.0019 | 0.0018 |
| Copper (mg/l) | 0.05 | 1.5 | 0.0011 | 0.0009 | 0.0012 | 0.0008 | 0.0010 | 0.0009 | 0.0007 | 0.0008 | 0.0010 |
| Cadmium (mg/l) | 0.003 | No relaxation | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Chromium (mg/l) | 0.05 | No relaxation | 0.0008 | 0.0007 | 0.0010 | 0.0008 | 0.0007 | 0.0009 | 0.0008 | 0.0007 | 0.0010 |
| Lead (mg/l) | 0.01 | No relaxation | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL | BDL |
| Iron (mg/l) | 1.0 | No relaxation | 0.18 | 0.24 | 0.21 | 0.17 | 0.19 | 0.23 | 0.20 | 0.18 | 0.22 |
| Zinc (mg/l) | 5 | 15 | 0.0051 | BDL | 0.0049 | 0.0038 | BDL | BDL | 0.0054 | 0.0042 | 0.0036 |
| Fecal Coliform (cfu) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 |
| E. Coli (cfu) | 0 | 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,
P17- Behind Central AC Plant*

*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.*