**RESULTS OF THE WATER QUALITY PARAMETERS OF the institute**

**(SAMPLING DATE 26/06/19)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **Permissible Limit** | **Maximum Limit** | **P1** | **P2** | **P7** | **P8** | **P11** | **P12** | **P13** | **P14** |
| **pH** | **6.5 to 8.5** | **No relaxation** | **8.31** | **8.03** | **8.12** | **8.25** | **8.19** | **8.06** | **8.07** | **8.26** |
| **TDS (mg/l)** | **500** | **2000** | **477** | **372** | **656** | **749** | **685** | **437** | **609** | **667** |
| **Hardness (as CaCO3) (mg/l)** | **300** | **600** | **90** | **160** | **120** | **120** | **110** | **70** | **80** | **100** |
| **Alkalinity (as CaCO3) (mg/l)** | **200** | **600** | **270** | **420** | **250** | **220** | **240** | **310** | **260** | **500** |
| **Nitrate (mg/l)** | **50** | **No relaxation** | **0.06** | **0.39** | **0.07** | **0.08** | **0.10** | **0.04** | **0.08** | **0.04** |
| **Sulfate (mg/l)** | **200** | **400** | **31** | **27** | **38** | **62** | **42** | **26** | **36** | **48** |
| **Fluoride (mg/l)** | **1** | **1.5** | **0.832** | **0.843** | **0.629** | **0.589** | **0.709** | **0.893** | **0.765** | **0.652** |
| **Chloride (mg/l)** | **250** | **1000** | **145** | **35** | **265** | **295** | **290** | **110** | **220** | **265** |
| **Turbidity (NTU)** | **5** | **10** | **0.001** | **0.001** | **0.002** | **0.001** | **0.001** | **0.001** | **0.001** | **0.001** |
| **Arsenic (mg/l)** | **0.01** | **No relaxation** | **0.0006** | **0.0028** | **0.0007** | **0.0022** | **0.0018** | **0.0016** | **0.0008** | **0.0006** |
| **Copper (mg/l)** | **0.05** | **1.5** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** |
| **Cadmium (mg/l)** | **0.003** | **No relaxation** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** |
| **Chromium (mg/l)** | **0.05** | **No relaxation** | **0.0031** | **0.0034** | **0.0032** | **0.0016** | **0.0027** | **0.0021** | **0.0028** | **0.0021** |
| **Lead (mg/l)** | **0.05** | **No relaxation** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** |
| **Iron (mg/l)** | **0.3** | **No relaxation** | **0.18** | **0.17** | **0.19** | **0.16** | **0.28** | **0.29** | **0.17** | **0.15** |
| **Zinc (mg/l)** | **5** | **15** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **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: P1 – Opp. Type 2 shop-C near water tank, P2- End of lane 37 near house 4098, P7 - Near water tank and main entrance of VH-Extension , type-1, P-8 Near Health Centre, P-11 - Behind mess and inside of Hall-10, P-12 - Near about 150 M of P-2 (end of lane-36) , P13 – Near Visiting Faculty Apartment, P14 Near Hall 12***

***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***