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

**(SAMPLING DATE 30/07/19)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **Permissible Limit** | **Maximum Limit** | **P1** | **P2** | **P3** | **P7** | **P11** | **P12** | **P13** | **P14** |
| **pH** | **6.5 to 8.5** | **No relaxation** | **7.18** | **7.51** | **7.56** | **7.49** | **7.64** | **7.57** | **7.60** | **7.18** |
| **TDS (mg/l)** | **500** | **2000** | **376** | **473** | **657** | **695** | **552** | **606** | **656** | **376** |
| **Hardness (as CaCO3) (mg/l)** | **300** | **600** | **180** | **80** | **110** | **130** | **130** | **120** | **110** | **180** |
| **Alkalinity (as CaCO3) (mg/l)** | **200** | **600** | **430** | **320** | **260** | **270** | **300** | **280** | **260** | **430** |
| **Nitrate (mg/l)** | **50** | **No relaxation** | **0.32** | **0.08** | **0.05** | **0.18** | **0.06** | **0.10** | **0.08** | **0.32** |
| **Sulfate (mg/l)** | **200** | **400** | **18** | **58** | **44** | **53** | **51** | **50** | **62** | **18** |
| **Fluoride (mg/l)** | **1** | **1.5** | **0.902** | **0.892** | **0.750** | **0.808** | **0.907** | **0.852** | **0.708** | **0.902** |
| **Chloride (mg/l)** | **250** | **1000** | **30** | **130** | **270** | **275** | **170** | **215** | **260** | **30** |
| **Turbidity (NTU)** | **5** | **10** | **0.001** | **0.002** | **0.001** | **0.001** | **0.001** | **0.001** | **0.001** | **0.001** |
| **Arsenic (mg/l)** | **0.01** | **No relaxation** | **0.0022** | **0.0008** | **0.0021** | **0.0019** | **0.0016** | **0.0008** | **0.0007** | **0.0022** |
| **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** | **0.0035** | **0.0019** | **0.0028** | **0.0021** | **0.0034** | **0.0031** | **0.0031** |
| **Lead (mg/l)** | **0.05** | **No relaxation** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** |
| **Iron (mg/l)** | **0.3** | **1.0** | **0.21** | **0.18** | **0.17** | **0.29** | **0.21** | **0.17** | **0.18** | **0.21** |
| **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***