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

**(SAMPLING DATE 26/08/19)**

|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **Permissible Limit** | **Maximum Limit** | **P1** | **P2** | **P3** | **P7** | **P11** | **P12** | **P13** | **P14** |
|  **pH** | **6.5 to 8.5** | **No relaxation** | **8.17** | **8.27** | **8.21** | **8.31** | **8.15** | **8.29** | **8.47** | **8.35** |
|  **TDS (mg/l)** | **500** | **2000** | **481** | **380** | **478** | **660** | **761** | **672** | **409** | **589** |
|  **Hardness (as CaCO3) (mg/l)** | **300** | **600** | **80** | **140** | **90** | **100** | **110** | **120** | **80** | **100** |
|  **Alkalinity (as CaCO3) (mg/l)** | **200** | **600** | **300** | **430** | **310** | **240** | **320** | **220** | **290** | **250** |
|  **Nitrate (mg/l)** | **50** | **No relaxation** | **0.06** | **0.35** | **0.08** | **0.07** | **0.06** | **0.18** | **0.07** | **0.14** |
|  **Sulfate (mg/l)** | **200** | **400** | **38** | **18** | **49** | **38** | **52** | **42** | **45** | **35** |
|  **Fluoride (mg/l)** | **1** | **1.5** | **0.854** | **0.842** | **0.884** | **0.750** | **0.678** | **0.799** | **0.898** | **0.762** |
|  **Chloride (mg/l)** | **250** | **1000** | **145** | **35** | **130** | **270** | **290** | **285** | **100** | **220** |
| **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** | **0.0022** | **0.0015** | **0.0008** | **0.0022** | **0.0020** | **0.0021** | **0.0033** | **0.0024** |
|  **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** | **0.0049** | **0.0059** | **0.0035** | **0.0011** | **0.0036** | **0.0046** | **0.0053** | **0.0045** |
|  **Lead (mg/l)** | **0.05** | **No relaxation** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** |
|  **Iron (mg/l)** | **0.3** | **1.0** | **0.11** | **0.17** | **0.21** | **0.25** | **0.26** | **0.21** | **0.12** | **0.22** |
|  **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, P3 – Behind Helicopter building,***

 ***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***