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

**(SAMPLING DATE 26/05/19)**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Parameters** | **Permissible Limit** | **Maximum Limit** | **P1** | **P2** | **P3** | **P7** | **P8** |  **P11** | **P12** |
|  **pH** | **6.5 to 8.5** | **No relaxation** | **7.71** | **7.41** | **7.78** | **7.63** | **7.58** | **7.70** | **7.91** |
|  **TDS (mg/l)** | **500** | **2000** | **505** | **379** | **475** | **676** | **791** | **701** | **426** |
|  **Hardness (as CaCO3) (mg/l)** | **300** | **600** | **130** | **180** | **100** | **140** | **170** | **150** | **90** |
|  **Alkalinity (as CaCO3) (mg/l)** | **200** | **600** | **350** | **430** | **340** | **280** | **270** | **280** | **310** |
|  **Nitrate (mg/l)** | **50** | **No relaxation** | **0.06** | **0.38** | **0.07** | **0.05** | **0.16** | **0.04** | **0.08** |
|  **Sulfate (mg/l)** | **200** | **400** | **23** | **32** | **33** | **44** | **60** | **43** | **22** |
|  **Fluoride (mg/l)** | **1** | **1.5** | **0.721** | **0.784** | **0.851** | **0.512** | **0.641** | **0.593** | **0.794** |
|  **Chloride (mg/l)** | **250** | **1000** | **175** | **40** | **140** | **265** | **300** | **285** | **105** |
| **Turbidity (NTU)** | **5** | **10** | **0.001** | **0.001** | **0.002** | **0.001** | **0.001** | **0.001** | **0.001** |
|  **Arsenic (mg/l)** | **0.01** | **No relaxation** | **0.0005** | **0.0021** | **0.0007** | **0.0023** | **0.0019** | **0.0015** | **0.0008** |
|  **Copper (mg/l)** | **0.05** | **1.5** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** |
|  **Cadmium (mg/l)** | **0.003** | **No relaxation** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** |
|  **Chromium (mg/l)** | **0.05** | **No relaxation** | **0.0034** | **0.0031** | **0.0038** | **0.0015** | **0.0029** | **0.0021** | **0.0032** |
|  **Lead (mg/l)** | **0.05** | **No relaxation** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** |
|  **Iron (mg/l)** | **0.3** | **No relaxation** | **0.17** | **0.18** | **0.18** | **0.16** | **0.26** | **0.29** | **0.17** |
|  **Zinc (mg/l)** | **5** | **15** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** | **BDL** |
|  **Fecal Coliform (cfu)** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** | **0** |
|  **E. Coli (cfu)** | **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)***

***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***