

**RESULTS OF THE WATER QUALITY PARAMETERS OF THE INSTITUTE  
(SAMPLING DATE 27/04/2023)**

<b>Parameters</b>	<b>Permissible Limit</b>	<b>Maximum Limit</b>	<b>P3</b>	<b>P8</b>	<b>P11</b>	<b>P12</b>	<b>P13</b>	<b>P14</b>	<b>P15</b>	<b>P16</b>
<b>pH</b>	<b>6.5 to 8.5</b>	<b>No relaxation</b>	<b>7.75</b>	<b>7.71</b>	<b>8.11</b>	<b>7.95</b>	<b>7.62</b>	<b>7.56</b>	<b>8.19</b>	<b>8.21</b>
<b>TDS (mg/l)</b>	<b>500</b>	<b>2000</b>	<b>455</b>	<b>766</b>	<b>673</b>	<b>770</b>	<b>586</b>	<b>674</b>	<b>711</b>	<b>421</b>
<b>Hardness (as CaCO<sub>3</sub>) (mg/l)</b>	<b>200</b>	<b>600</b>	<b>90</b>	<b>170</b>	<b>110</b>	<b>160</b>	<b>120</b>	<b>110</b>	<b>130</b>	<b>80</b>
<b>Alkalinity(as CaCO<sub>3</sub>) (mg/l)</b>	<b>200</b>	<b>600</b>	<b>350</b>	<b>310</b>	<b>290</b>	<b>350</b>	<b>310</b>	<b>290</b>	<b>280</b>	<b>320</b>
<b>Nitrate (mg/l)</b>	<b>45</b>	<b>No relaxation</b>	<b>0.08</b>	<b>0.07</b>	<b>0.12</b>	<b>0.09</b>	<b>0.06</b>	<b>0.07</b>	<b>0.08</b>	<b>0.06</b>
<b>Sulfate (mg/l)</b>	<b>200</b>	<b>400</b>	<b>29.15</b>	<b>39.68</b>	<b>31.89</b>	<b>46.21</b>	<b>21.47</b>	<b>31.15</b>	<b>28.21</b>	<b>30.84</b>
<b>Fluoride (mg/l)</b>	<b>1</b>	<b>1.5</b>	<b>0.896</b>	<b>0.604</b>	<b>0.634</b>	<b>0.715</b>	<b>0.779</b>	<b>0.627</b>	<b>0.612</b>	<b>0.869</b>
<b>Chloride (mg/l)</b>	<b>250</b>	<b>1000</b>	<b>135</b>	<b>310</b>	<b>300</b>	<b>280</b>	<b>195</b>	<b>290</b>	<b>305</b>	<b>110</b>
<b>Turbidity (NTU)</b>	<b>5</b>	<b>10</b>	<b>0.002</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>	<b>0.001</b>
<b>Arsenic (mg/l)</b>	<b>0.01</b>	<b>0.05</b>	<b>0.0023</b>	<b>0.0024</b>	<b>0.0022</b>	<b>0.0013</b>	<b>0.0016</b>	<b>0.0021</b>	<b>0.0017</b>	<b>0.0016</b>
<b>Copper (mg/l)</b>	<b>0.05</b>	<b>1.5</b>	<b>0.0011</b>	<b>0.0022</b>	<b>0.0017</b>	<b>0.0021</b>	<b>0.0017</b>	<b>0.0016</b>	<b>0.0015</b>	<b>0.0016</b>
<b>Cadmium (mg/l)</b>	<b>0.003</b>	<b>No relaxation</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>
<b>Chromium (mg/l)</b>	<b>0.05</b>	<b>No relaxation</b>	<b>0.0010</b>	<b>0.0009</b>	<b>0.0011</b>	<b>0.0015</b>	<b>0.0012</b>	<b>0.0009</b>	<b>0.0007</b>	<b>0.0008</b>
<b>Lead (mg/l)</b>	<b>0.01</b>	<b>No relaxation</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>	<b>BDL</b>
<b>Iron (mg/l)</b>	<b>0.3</b>	<b>No relaxation</b>	<b>0.14</b>	<b>0.21</b>	<b>0.19</b>	<b>0.23</b>	<b>0.17</b>	<b>0.16</b>	<b>0.18</b>	<b>0.12</b>
<b>Zinc (mg/l)</b>	<b>5</b>	<b>15</b>	<b>BDL</b>	<b>0.0005</b>	<b>BDL</b>	<b>0.0086</b>	<b>0.0078</b>	<b>BDL</b>	<b>0.0169</b>	<b>BDL</b>
<b>Fecal Coliform (cfu)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>
<b>E. Coli (cfu)</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>	<b>0</b>

*Sampling Locations: P3 - Behind Helicopter building,  
P8 - Near Health Centre,  
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*

*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.*