## LIST OF TABLES

<table>
<thead>
<tr>
<th>Table No.</th>
<th>Title</th>
<th>Page No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Criteria of water borne, water washed, water based and water related diseases</td>
<td>14</td>
</tr>
<tr>
<td>1.2</td>
<td>Fluoride in ground water of some districts in India</td>
<td>23</td>
</tr>
<tr>
<td>2.1</td>
<td>Total population of Lakhimpur district</td>
<td>32</td>
</tr>
<tr>
<td>2.2</td>
<td>Percentage of urban and rural population</td>
<td>32</td>
</tr>
<tr>
<td>2.3</td>
<td>Percentage of SC and ST population</td>
<td>32</td>
</tr>
<tr>
<td>2.4</td>
<td>Population by religion of Lakhimpur district</td>
<td>33</td>
</tr>
<tr>
<td>2.5</td>
<td>Literacy scenario of Lakhimpur district</td>
<td>33</td>
</tr>
<tr>
<td>2.6</td>
<td>Season wise rainfall (from Dec 2002 to Nov 20003)</td>
<td>35</td>
</tr>
<tr>
<td>2.7</td>
<td>Maximum and minimum temperature of Lakhimpur for the year 2006</td>
<td>36</td>
</tr>
<tr>
<td>2.8</td>
<td>Number of various registered industry in Lakhimpur district</td>
<td>37</td>
</tr>
<tr>
<td>2.9</td>
<td>Situation of medical facility in the Lakhimpur district</td>
<td>40</td>
</tr>
<tr>
<td>3.1</td>
<td>Location of sampling sites</td>
<td>44</td>
</tr>
<tr>
<td>3.2</td>
<td>AAS parameter for the analysis of different heavy metals</td>
<td>80</td>
</tr>
<tr>
<td>4.1 (a)</td>
<td>Temperature (in °C) of the water samples, sampling source (Tube well)</td>
<td>86</td>
</tr>
<tr>
<td>4.1 (b)</td>
<td>Temperature (in °C) of the water samples, sampling source (Ring well, PWS and river)</td>
<td>87</td>
</tr>
<tr>
<td>4.2(a)</td>
<td>Turbidity values (in NTU) of the water samples, sampling source (Tube well)</td>
<td>91</td>
</tr>
<tr>
<td>4.2 (b)</td>
<td>Turbidity values (in NTU) of the water samples, sampling</td>
<td></td>
</tr>
</tbody>
</table>

\[i\]
4.3 (a) Conductance (in μScm\(^{-1}\)) of the water samples, sampling source (Tube well)

4.3 (b) Conductance (in μScm\(^{-1}\)) of the water samples, sampling source (Ring well, PWS and river)

4.4 (a) pH values of the water samples, sampling source (Tube well)

4.4 (b) pH values of the water samples, sampling source (Ring well, PWS and river)

4.5 (a) Total Solid (in mg/L) of the water samples, sampling source (Tube well)

4.5 (b) Total Solid (in mg/L) of the water samples, sampling source (Ring well, PWS and River)

4.6 (a) Total Dissolved Solid (in mg/L) of the water samples, sampling source (Tube well)

4.6 (b) Total Dissolved Solid (in mg/L) of the water samples, sampling source (Ring well, PWS and River)

4.7 (a) Total Suspended Solid (in mg/L) of the water samples, sampling source (Tube well)

4.7 (b) Total Suspended Solid (in mg/L) of the water samples, sampling source (Ring well, PWS and River)

4.8 (a) Total Hardness (in mg/L) of the water samples, sampling source (Tube well)

4.8 (b) Total Hardness (in mg/L) of the water samples, sampling source (Ring well, PWS and River)

4.9 (a) Dissolved Oxygen values (in mg/L) of the water samples,
4.9 (b) Dissolved Oxygen values (in mg/L) of the water samples, sampling source (Ring well, PWS and River)  

4.10 (a) BOD values (in mg/L) of the water samples, sampling source (Tube well)  

4.10 (b) BOD values (in mg/L) of the water samples, sampling source (Ring well, PWS and River)  

4.11(a) Chloride content (in mg/L) of the water samples, sampling source (Tube well)  

4.11 (b) Chloride content (in mg/L) of the water samples, sampling source (Ring well, PWS and River)  

4.12 (a) Nitrate content (in mg/L) of the water samples, sampling source (Tube well)  

4.12 (b) Nitrate content (in mg/L) of the water samples, sampling source (Ring well, PWS and River)  

4.13 (a) Fluoride content (in mg/L) of the water samples, sampling source (Tube well)  

4.13 (b) Fluoride content (in mg/L) of the water samples, sampling source (Ring well, PWS and River)  

4.14 (a) Sodium content (in mg/L) of the water samples, sampling source (Tube well)  

4.14 (b) Sodium content (in mg/L) of the water samples, sampling source (Ring well, PWS and River)  

4.15 (a) Potassium content (in mg/L) of the water samples, sampling source(Tube well)
4.15 (b) Potassium content (in mg/L) of the water samples, sampling source (Ring well, PWS and River) 160

4.16 (a) Calcium content (in mg/L) of the water samples, sampling source (Tube well) 165

4.16 (b) Calcium content (in mg/L) of the water samples, sampling source (Ring well, PWS and River) 166

4.17 (a) Magnesium content (in mg/L) of the water samples, sampling source (Tube well) 168

4.17 (b) Magnesium content (in mg/L) of the water samples, sampling source (Ring well, PWS and River) 169

4.18 (a) Iron content (in mg/L) of the water samples, sampling source (Tube well) 173

4.18 (b) Iron content (in mg/L) of the water samples, sampling source (Ring well, PWS and River) 174

4.19 (a) Lead content (in mg/L) of the water samples, sampling source (Tube well) 178

4.19 (b) Lead content (in mg/L) of the water samples, sampling source (Ring well, PWS and River) 179

4.20 (a) Copper content (in mg/L) of the water samples, sampling source (Tube well) 182

4.20 (b) Copper content (in mg/L) of the water samples, sampling source (Ring well, PWS and River) 183

4.21 (a) Zinc content (in mg/L) of the water samples, sampling source (Tube well) 188

4.21 (b) Zinc content (in mg/L) of the water samples, sampling source
4.22 (a) Nickel content (in mg/L) of the water samples, sampling source (Tube well) 194
4.22 (b) Nickel content (in mg/L) of the water samples, sampling source (Ring well, PWS and River) 195
4.23 (a) Arsenic content (in mg/L) of the water samples, sampling source (Tube well) 197
4.23 (b) Arsenic content (in mg/L) of the water samples, sampling source (Ring well, PWS and River) 198
4.24 (a) Total coliform organisms (in MPN/100 ml) of the water samples, sampling sources (Tube well) 200
4.24 (b) Total coliform organisms (in MPN/100 ml) of the water samples, sampling sources (Ring well, PWS and River) 201
4.25 (a) Background of the respondent 206
4.25 (b) Health status of the respondent 207
4.26 Patients treated for water borne diseases in Lakhimpur district 210