# 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>Potentials of hole and superoxide and hydroxyl radicals</td>
<td>4</td>
</tr>
<tr>
<td>2.1</td>
<td>List of chemicals used and their source</td>
<td>21</td>
</tr>
<tr>
<td>2.2</td>
<td>Amount of metal oxides added to TiO$_2$</td>
<td>23</td>
</tr>
<tr>
<td>3.1</td>
<td>Average Crystallite Sizes (t) obtained from XRD</td>
<td>44</td>
</tr>
<tr>
<td>3.2</td>
<td>Elemental composition obtained from EDX</td>
<td>55</td>
</tr>
<tr>
<td>3.3</td>
<td>FT-IR of Metal oxides doped TiO$_2$, Chitosan blended metal oxides doped TiO$_2$ and Garlic loaded metal oxides doped TiO$_2$ nanocomposites</td>
<td>78</td>
</tr>
<tr>
<td>3.4</td>
<td>Zone of inhibition of Al$_2$O$_3$-TiO$_2$, Chitosan blended Al$_2$O$_3$-TiO$_2$ and Garlic loaded Al$_2$O$_3$-TiO$_2$ nanocomposites against <em>E. coli</em></td>
<td>116</td>
</tr>
<tr>
<td>3.5</td>
<td>Zone of inhibition of Bi$_2$O$_3$-TiO$_2$, Chitosan blended Bi$_2$O$_3$-TiO$_2$ and Garlic loaded Bi$_2$O$_3$-TiO$_2$ nanocomposites against <em>E. coli</em></td>
<td>116</td>
</tr>
<tr>
<td>3.6</td>
<td>Zone of inhibition of CuO-TiO$_2$, Chitosan blended CuO-TiO$_2$ and Garlic loaded CuO-TiO$_2$ nanocomposites against <em>E. coli</em></td>
<td>117</td>
</tr>
<tr>
<td>3.7</td>
<td>Zone of inhibition of CdO-TiO$_2$, Chitosan blended CdO-TiO$_2$ and Garlic loaded CdO-TiO$_2$ nanocomposites against <em>E. coli</em></td>
<td>117</td>
</tr>
<tr>
<td>TABLE NO.</td>
<td>TITLE</td>
<td>PAGE NO.</td>
</tr>
<tr>
<td>-----------</td>
<td>-------</td>
<td>----------</td>
</tr>
<tr>
<td>3.8</td>
<td>Zone of inhibition of Fe$_2$O$_3$-TiO$_2$, Chitosan blended Fe$_2$O$_3$-TiO$_2$ and Garlic loaded Fe$_2$O$_3$-TiO$_2$ nanocomposites against <em>E. coli</em></td>
<td>117</td>
</tr>
<tr>
<td>3.9</td>
<td>Zone of inhibition of MoO$_3$-TiO$_2$, Chitosan blended MoO$_3$-TiO$_2$ and Garlic loaded MoO$_3$-TiO$_2$ nanocomposites against <em>E. coli</em></td>
<td>118</td>
</tr>
<tr>
<td>3.10</td>
<td>Zone of inhibition of WO$_3$-TiO$_2$, Chitosan blended WO$_3$-TiO$_2$ and Garlic loaded WO$_3$-TiO$_2$ nanocomposites against <em>E. coli</em></td>
<td>118</td>
</tr>
<tr>
<td>3.11</td>
<td>Zone of inhibition of ZrO$_2$-TiO$_2$, Chitosan blended ZrO$_2$-TiO$_2$ and Garlic loaded ZrO$_2$-TiO$_2$ nanocomposites against <em>E. coli</em></td>
<td>118</td>
</tr>
</tbody>
</table>