### List Of Plates

<table>
<thead>
<tr>
<th>Plate No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>Plate.1</td>
<td><em>Labeo gonius</em> (Male and Female)</td>
<td>16</td>
</tr>
<tr>
<td>Plate.2</td>
<td>Showing gut at different stages of development of <em>Labeo gonius</em>.</td>
<td>60</td>
</tr>
<tr>
<td>Plate.3</td>
<td>Maturity stages of ovary of <em>Labeo gonius</em> during annual reproductive cycle at mid-altitude (Shillong).</td>
<td>75</td>
</tr>
<tr>
<td>Plate.4</td>
<td>Maturity stages of testes of <em>Labeo gonius</em> during annual reproductive cycle at mid-altitude (Shillong).</td>
<td>80</td>
</tr>
<tr>
<td>Plate.5</td>
<td>Photographs showing units of the hatchery complex at the study site.</td>
<td>123</td>
</tr>
<tr>
<td>Plate.6</td>
<td>Transportation and segregation of brooders.</td>
<td>124</td>
</tr>
<tr>
<td>Plate.7</td>
<td>Injections of pituitary extract and fertilized eggs.</td>
<td>126</td>
</tr>
<tr>
<td>Plate.8</td>
<td>Induced breeding of <em>Labeo gonius</em> at low-altitude</td>
<td>130</td>
</tr>
<tr>
<td>Plate.9a</td>
<td>Early developmental stages of <em>Labeo gonius</em> at mid-altitude area</td>
<td>145</td>
</tr>
<tr>
<td>Plate.9b</td>
<td>Developmental stages of <em>Labeo gonius</em> at mid-altitudinal area</td>
<td>147</td>
</tr>
<tr>
<td>Plate.9c</td>
<td>Developmental stages of <em>Labeo gonius</em> at low-altitude area</td>
<td>148</td>
</tr>
<tr>
<td>Plate.9d</td>
<td>Developmental stages of <em>Labeo gonius</em> at low-altitude area</td>
<td>149</td>
</tr>
<tr>
<td>Plate.9f</td>
<td>Post-embryonic developmental stages of <em>Labeo gonius</em> at mid-altitude area</td>
<td>146</td>
</tr>
<tr>
<td>Plate.10</td>
<td>Post-embryonic developmental stages of <em>Labeo gonius</em></td>
<td>151</td>
</tr>
<tr>
<td>Plate.11a</td>
<td>Developmental stages of <em>Labeo gonius</em> at low-altitude area</td>
<td>152</td>
</tr>
<tr>
<td>Plate.11b</td>
<td>Developmental stages of <em>Labeo gonius</em> at low-altitude area</td>
<td>153</td>
</tr>
<tr>
<td>Plate.11c</td>
<td>Developmental stages of <em>Labeo gonius</em> at mid-altitude area</td>
<td>154</td>
</tr>
<tr>
<td>Plate.12a</td>
<td>Photomicrographs of histological section of ovary of <em>Labeo gonius</em> at mid-altitude.</td>
<td>184</td>
</tr>
<tr>
<td>Plate.12b</td>
<td>Photomicrographs of histological section of ovary of <em>Labeo gonius</em> at mid-altitude.</td>
<td>185</td>
</tr>
<tr>
<td>Plate.12c</td>
<td>Photomicrographs of histological section of ovary of <em>Labeo gonius</em> at mid-altitude.</td>
<td>186</td>
</tr>
<tr>
<td>Plate.12d</td>
<td>Photomicrographs of histological section of ovary of <em>Labeo gonius</em> at mid-altitude.</td>
<td>187</td>
</tr>
<tr>
<td>Plate.13a</td>
<td>SEM photomicrographs of different maturity stages of ovary of <em>Labeo gonius</em></td>
<td>190</td>
</tr>
<tr>
<td>Plate.13b</td>
<td>SEM photomicrographs of different maturity stages of ovary of <em>Labeo gonius</em></td>
<td>191</td>
</tr>
<tr>
<td>Plate.13c</td>
<td>SEM photomicrographs of different maturity stages of ovary of <em>Labeo gonius</em></td>
<td>192</td>
</tr>
<tr>
<td>Plate.14</td>
<td>Transmission Electron micrographs of ovary of <em>Labeo gonius</em> during maturing and mature stage at mid-altitudinal region</td>
<td>193</td>
</tr>
<tr>
<td>Plate.15a</td>
<td>Surface ultra structure study of mature eggs of <em>Labeo gonius</em> from mid and low-altitude area</td>
<td>196</td>
</tr>
<tr>
<td>Plate.15b</td>
<td>Ultra structure study of mature eggs of <em>Labeo gonius</em> from mid and low-altitude area</td>
<td>197</td>
</tr>
</tbody>
</table>
Plate 16a  Photomicrographs of histological sections of testes of *Labeo gonius* at mid-altitude.  
Plate 16b  
Plate 16c  
Plate 17a  SEM photomicrographs of different maturity stages of testes of *Labeo gonius*.  
Plate 17b  
Plate 17c  
Plate 18a  Transmission Electron micrographs of Testes at different stages of development  
Plate 18b  
Plate 19a  Surface ultra structure (Scanning electron microscopy) of Gastrula and hatchling of *Labeo gonius*.  
Plate 19b  Surface ultra structure (Scanning electron microscopy) of hatchling of *Labeo gonius*.