<table>
<thead>
<tr>
<th>Table No.</th>
<th>Title</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.1</td>
<td>Site characteristics of Bun cultivation (BCU) and Forest (FS) sites at Surface (SL), middle (ML) and subsurface (SSL) layers.</td>
<td></td>
</tr>
<tr>
<td>2.1</td>
<td>One-way analysis of variance (ANOVA) of the physico-chemical properties of soil in Bun cultivation (BCU) and Forest (FS) sites at surface (0-10 cm), middle (10-20 cm) and subsurface (20-30 cm) layers at $P&lt;0.05$.</td>
<td>72</td>
</tr>
<tr>
<td>2.2</td>
<td>One-way analysis of variance (ANOVA) of the physico-chemical properties of soil at surface (0-10 cm), middle (10-20 cm) and subsurface (20-30 cm) layers in Bun cultivation (BCU) and Forest (FS) sites at $P&lt;0.05$.</td>
<td>73</td>
</tr>
<tr>
<td>2.3</td>
<td>Correlation coefficient ($r$) values of physico-chemical properties of soil in Bun cultivation (BCU) and Forest (FS) sites between surface (SL), middle (ML) and subsurface (SSL) layers ($P&lt;0.05$).</td>
<td>74</td>
</tr>
<tr>
<td>2.4</td>
<td>Correlation coefficient ($r$) values among physico-chemical properties of soil with various microbial population, biological and biochemical properties of soil in Bun cultivation (BCU) site at surface (SL) layer ($P&lt;0.05$).</td>
<td>75</td>
</tr>
<tr>
<td>2.5</td>
<td>Correlation coefficient ($r$) values among physico-chemical properties of soil with various microbial population, biological and biochemical properties of soil in bun cultivation (BCU) site at middle (ML) layer ($P&lt;0.05$).</td>
<td>75</td>
</tr>
</tbody>
</table>
2.6 Correlation coefficient (r) values among physico-chemical properties of soil with various microbial population, biological and biochemical properties of soil in Bun cultivation (BCU) site at subsurface (SSL) layer (P≤0.05).

2.7 Correlation coefficient (r) values among physico-chemical properties of soil with various microbial population, biological and biochemical properties of soil in Forest (FS) site at surface (SL) layer (P≤0.05).

2.8 Correlation coefficient (r) values among physico-chemical properties of soil with various microbial population, biological and biochemical properties of soil in Forest (FS) site at middle (ML) layer (P≤0.05).

2.9 Correlation coefficient (r) values among physico-chemical properties of soil with various microbial population, biological and biochemical properties of soil in Forest (FS) site at subsurface (SSL) layer (P≤0.05).

3.1.1 Monthly variation in the population of fungal species per gram dry soil x 10^3 in bun cultivation (BCU) site at surface (SL) layer.

3.1.2 Monthly variation in the population of fungal species per gram dry soil x 10^3 in bun cultivation (BCU) site at middle (ML) layer.

3.1.3 Monthly variation in the population of fungal species per gram dry soil x 10^3 in bun cultivation (BCU) site at subsurface (SSL) layer.
3.1.4 Monthly variation in the population of fungal species per 100 gram dry soil x $10^3$ in forest (FS) site at surface (SL) layer.

3.1.5 Monthly variation in the population of fungal species per 102 gram dry soil x $10^3$ in forest (FS) site at middle (ML) layer.

3.1.6 Monthly variation in the population of fungal species per 104 gram dry soil x $10^3$ in forest (FS) site at subsurface (SSL) layer.

3.1.7 List of fungi isolated from Bun cultivation (BCU) and Forest (FS) sites at surface (SL), middle (ML) and subsurface (SSL) layers.

3.2.1 Monthly variation in the population of bacterial species per 117 gram dry soil x $10^5$ in bun cultivation (BCU) site at surface (SL) layer (0-10 cm) layers.

3.2.2 Monthly variation in the population of bacterial species per 117 gram dry soil x $10^5$ in bun cultivation (BCU) site at middle (ML) layer (10-20 cm) layers.

3.2.3 Monthly variation in the population of bacterial species per 118 gram dry soil x $10^5$ in bun cultivation (BCU) site at subsurface (SSL) layer (20-30 cm) layers.

3.2.4 Monthly variation in the population of bacterial species per 118 gram dry soil x $10^5$ in forest (FS) site at surface (SL) layer (0-10 cm) layers.

3.2.5 Monthly variation in the population of bacterial species per 119 gram dry soil x $10^5$ in forest (FS) site at middle (ML) layer (10-20 cm) layers.
3.2.6 Monthly variation in the population of bacterial species per gram dry soil $\times 10^5$ in forest (FS) site at subsurface (SSL) layer (20-30 cm) layers.

3.2.7 List of bacteria isolated from bun cultivation and forest sites at surface (SL), middle (ML) and subsurface (SSL) layers.

3.3.1 One way analysis of variance (ANOVA) of microbial population of soil in Bun cultivation and Forest sites at surface (SL), middle (ML) and subsurface (SSL) layers ($P<0.05$).

3.3.2 One way analysis of variance (ANOVA) of microbial population of soil in Bun cultivation and Forest sites between surface (SL), middle (ML) and subsurface (SSL) layers ($P<0.05$).

3.3.3 Correlation coefficient ($r$) values of microbial population of soil between surface (SL), middle (ML) and subsurface (SSL) layers in Bun cultivation (BCU) and Forest (FS) sites ($P \leq 0.05$).

3.3.4 Correlation coefficient ($r$) values of microbial population with various biological, biochemical and physico-chemical properties of soil in Bun cultivation site at surface (SL), middle (ML) and subsurface (SSL) layers ($P \leq 0.05$).

3.3.5 Correlation coefficient ($r$) values of microbial population with various biological, biochemical and physico-chemical properties of soil in Forest site at surface (SL), middle (ML) and subsurface (SSL) layers ($P \leq 0.05$).
4.1 One way analysis of variance (ANOVA) of microbial biomass carbon ($C_{mic}$) of soil in Bun cultivation and Forest sites at surface (SL, middle (ML) and subsurface (SSL) layers ($P<0.05$).

4.2 One way analysis of variance (ANOVA) of microbial biomass carbon ($C_{mic}$) of soil in Bun cultivation and Forest sites between surface (SL, middle (ML) and subsurface (SSL) layers ($P<0.05$).

4.3 Correlation coefficient ($r$) values of microbial biomass carbon ($C_{mic}$) of soil in Bun cultivation and Forest sites between surface (SL), middle (ML) and subsurface (SSL) layers ($P<0.05$).

4.4 Correlation coefficient ($r$) values of microbial biomass carbon ($C_{mic}$) with various biological, biochemical and physico-chemical properties of soil in Bun cultivation and Forest sites at surface (SL), middle (ML) and subsurface (SSL) layers ($P<0.05$).

5.1 One way analysis of variance (ANOVA) of the biochemical properties of soil in Bun cultivation and Forest sites at surface (SL, middle (ML) and subsurface (SSL) layers ($P<0.05$).

5.2 One way analysis of variance (ANOVA) of biochemical properties of soil in Bun cultivation and Forest sites between surface (SL, middle (ML) and subsurface (SSL) layers ($P<0.05$).
5.3 Correlation coefficient (r) values of biochemical properties of soil in Bun cultivation and Forest sites between surface (SL), middle (ML) and subsurface (SSL) layers ($P \leq 0.05$).

5.4 Correlation coefficient (r) values of microbial biomass carbon ($C_{mic}$) with various microbial population, biological, and physico-chemical properties of soil in Bun cultivation and Forest sites at surface (SL), middle (ML) and subsurface (SSL) layers ($P \leq 0.05$).