### Bill of Quantity (BOQs) for Construction of HH Temporary latrines with concrete super structure with reinforced concrete cover (for pit) **FOR 1 LATRINE**

<table>
<thead>
<tr>
<th>Options</th>
<th>Description</th>
<th>Unit</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>Option 1 #: a pit for 1 latrine</td>
<td>Latrine pit excavation and the latrine base and levelling. In many options as per below and the drawings attached to offer. Works on site are calculated by geometric measurement.</td>
<td>m³</td>
<td>2.78</td>
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<tr>
<td>Option 2 #: a pit for 2 latrines</td>
<td>Construction works for 2 latrines.</td>
<td>m³</td>
<td>4.58</td>
</tr>
<tr>
<td>Option 3 #: a pit for 3 latrines</td>
<td>Construction works for 3 latrines.</td>
<td>m³</td>
<td>6.06</td>
</tr>
<tr>
<td>Option 4 #: a pit for 4 latrines</td>
<td>Construction works for 4 latrines.</td>
<td>m³</td>
<td>8.23</td>
</tr>
<tr>
<td>Option 5 #: a pit for 5 latrines</td>
<td>Construction works for 5 latrines.</td>
<td>m³</td>
<td>9.81</td>
</tr>
<tr>
<td>Option 6 #: a pit for 6 latrines</td>
<td>Construction works for 6 latrines.</td>
<td>m³</td>
<td>10.92</td>
</tr>
</tbody>
</table>

### Excavation and backfilling works

**Excavation in any kind of soil: sand, rocky, clay, concrete... etc.,** and remove the surplus outside the site to the designated site. With the levelling of the excavation floor and well compaction of ground floor before starting concrete work, the price includes the backfilling. Leveling and remove any obstacles exist in the implementation site, and cleaning the site from all dirt or any unrequired topsoil up to 25 cm. 

**Backfilling works:** Backfill with suitable and clean material, in layers not more than 25 cm and then sprayed with water and well compact (work using labour or Hand compactors) and all the works according to the drawings, specifications, and instructions of ACTED engineer.

### Construction without mortar:

Provide and implement crushed stones walls for the soaking pits

**Construction without mortar:** Provide and implement crushed stones walls for the soaking pits "as per the below and the drawings attached to offer." Works on site are calculated by geometric measurement.

### Reinforced concrete works (300 kg/cm²):

Provide and implement a reinforced concrete (for pit cover slab), thickness as per the drawing for each option, cement resistant to salts with resistance, mixing ratio (1:2:4).

The steel bars one layer two ways diameter 12 mm with a spacing of 15 cm between the bars, steel equivalent to the Turkish performs. Includes install a ventilation pipe of 4 inches in the slab of length 80 cm with its cap. Also, spraying the water (curing) for two weeks twice daily. includes all necessary in accordance with the drawings and specifications and instructions of the supervisor Engineer.
Latrines structure

### Plain Concrete works:
- **Cement**: ordinary Portland cement with mix ratio 1:2:4 (Cement: Fine Agg.: Coarse Agg.), cement not less than 150 kg / m³, curing of the concrete twice a day for three days. The price includes the implementation of a beam of boulder stones (Solange) under the Plain concrete in thickness of 15 cm and width of 20 cm filled by mortar, also, to be taken in the consideration of the Arabic toilet seat. Includes all necessary in accordance with the drawings and specifications and guidance of the supervisor engineer.

### Provide and implement a hollow concrete block wall (bricks) and Zink roof:
1. 15 x 40 x 20 hollow blocks
2. Zink Roof of 1 m (fixed on a wooden frame)
3. Zink door fixed on the wooden frame, includes a padlock
4. Soap holder fixed on the wall

### Plumbing works:
1. Arabic toilet seat not less than 40*60 cm
2. Syphon with the elbow connected with 4" pipe PVC 4.2 mm to the soakage pit
3. PVC Ventilation pipe of height 2 meters 2" PVC for the latrine
4. Removable gate valve. For maintenance proposes if any potential blockage
5. Water tap 0.5 inches with the 0.5-inch piping connected with the existing water tank

The item includes and not limited to fittings and all needed to finish the work according to drawings, specifications, the technical asset & workmanship, general & specific conditions and instructions of the supervisor engineer.