Supply and installation of green wooden boxes with and without cover

Place of installation: Shirak region, village Arapi
Wooden box to be used in open air

Made from 2 parts-

1 – Lower part: base box
Size - 150*95*20/35 cm – 78 pcs

2 – Box cover
Size -154*99*5 cm – 24 pcs needed
Lower part: base box (part 1) – 78 pcs

**Material of the body/frame**  — Wood suitable for construction - 1 cubic meter at least 450 kg, must be pre-treated with antiseptic-antibacterial protection.

**Screws to be used** - Stainless steel or with galvanized coating

**Exterior coating of wooden frame** - double layer of acrylic varnish

**Wood thickness** - 30/25 mm

**Interior** - moisture-resistant bitumen-based treatment

Include drill stripes in the middle of wide part (150 cm) to fix the boxes in the ground

**Total required number of boxes (without cover)** - 78 pieces
**Box cover (part 2) – 24 pieces needed**

**Material of the body/frame** – Wood suitable for construction - 1 cubic meter at least 450 kg, must be pre-treated with **antiseptic-antibacterial** protection and with double ACRYLIC varnish

**Screws to be used** - Stainless steel or with galvanized coating

**Exterior coating of the wooden part of the cover** - double layer of acrylic varnish

**External part of the cover** - Polycarbonate (UV resistance at least 700ky)
  - with 6 mm thickness and plastic edge profiles

**Frame wall thickness** - 50 mm

**Fixation of covers to the main body** – with hinges - 2 pieces (fast mounting principle should be ensured)

**Unlockable with fixation** - Using opening & fixing mechanisms upwards with 3 levels of adjustment:

1. Closed; 2. Open 25°; 3. Open 45°

All 4 sections/sides of the cover should have tearing channels/grooves to prevent dripping from the polycarbonate to the plants.

**A simpler version for installation and storage of the covers should be ensured**
Scheme for installation of boxes

Intermediate space by width - 50 cm

Intersecting area by length - 50 cm

Working/walking corridors - 100 cm

**Quantity of the boxes and parts:**

Number of boxes - 78 pieces

Number of box covers - 24 pieces

Number of hinges - 48 pieces

Number of opening and fixing mechanisms - 48 pieces

Cover locks - 24 pieces
Schematic drawing of shower irrigation
Shower irrigation system requirements

Rotor water flow - 1.5 l / min
Rotor type - shower 360°
Number of rotors in one row - 13 pieces;
Total water consumption - 120 l / min;
Control point - 1 main point / 6 zones;

Total number of rotors - 78 pieces (one in each box);
Water tank - 2 tons; Fertilizer tank / with injection system / - 100 liters;
System installation type - underground;
Each line must have an automatic control valve and anti-freeze drainage capability;
The irrigation network must have an automatic control system with 6 soil moisture sensors (1 on each line).
Rain sensor - 1 piece. The control device must take into account the readings of the rain sensor as well.