

Annex 1 - Technical Specifications

LOT 1 – Agricultural Equipment

1. Home Green House

Foundations

Foundations made of 2-inch galvanized steel, 2 mm thick and 85 cm high. The price includes preparing the top section for a 15cm length in a suitable manner for installing the columns, with all fixing accessories. Excavation for the foundations shall be 50–60 cm in diameter and 70–80 cm deep. Foundations shall be fixed in the ground using B300 concrete, with 60 cm of the foundation embedded in concrete. Distance between foundations: 3m.

Side Columns

Single 2-inch galvanized side columns, 2mm thick and 2.5m long, prepared for fixing to the foundations using 5/16-inch × 7cm bolts. Columns shall be fitted with clamps for fixing the arches. Arches shall be equipped with a Vita support for fixing the side Vita strip, including all necessary bolts and fixing accessories. Includes 4 × 7cm timber along the sides of the greenhouse for fixing the ground plastic (panel and strip), with all fixing accessories.

Internal Columns

Double internal and external columns, 2 inches thick, 2.5 m long, prepared for fixing to the foundations using 5/16-inch × 7 cm bolts. The columns shall be fitted at the top with a gutter support for installing the gutters, including all necessary bolts and fixing accessories.

External Arches (End Faces)

2 mm thick, with an arch opening of 7.35 m. Arch pipes shall be 1.25-inch diameter, 2 mm thick and galvanized. The arch angle of inclination at any point shall not be less than 23–25 degrees. Provide upper ventilation windows, 1 × 1 m, made from 3/4-inch galvanized pipes and welded to the arch. Timber shall be fixed to them using bolts and other required components. The arch tie pipe shall be 3/4 inch, fitted with 5 × 4 cm Swedish timber (gate timber) using 6 cm galvanized bolts, with all fixing accessories.

Internal Arches

Internal arches, 1.25-inch thickness, arch width 7.5 m, with an arch opening of 8.5 m. Arch pipes shall be 1.25-inch diameter and 2 mm thick. The arch angle of inclination at any point shall not be less than 23–25 degrees. Arch tie pipe: 3/4 inch. Includes all required fixing components, bolts and accessories.

Gutters

Gutters 3.04 m long and 1.5 mm thick, made of galvanized sheet metal. Gutters shall be fitted with 4 × 5 cm Swedish timber and fixed using 6 cm galvanized bolts. Each gutter shall have four 8 cm galvanized bolts for fixing the gutters to the columns. Includes all fixing accessories and downspouts.

Side Gutters (External)

External side gutters 3.04 m long and 1.5 mm thick, made of galvanized sheet metal. Gutters shall be fitted with 4 × 5 cm Swedish timber and fixed using 6 cm galvanized bolts. Each gutter shall have four 8 cm galvanized bolts for fixing the gutters to the columns. Includes all fixing accessories and downspouts.

Side Vita Strip

Lower side Vita strip made of 1.5mm galvanized sheet metal, dimensions 8 × 4 cm, formed in a U-shape. Fitted with white treated timber secured inside the Vita strip using 6 cm galvanized bolts. Includes all components required to fix it to the side columns at a height of 80 cm above ground level, with all fixing accessories.

Wire-Support Pipes

2-inch diameter, 2 mm thick galvanized metal pipes, 7.35m long, for hanging plants, with all fixing accessories, installed beneath the side arches.

Roof Pipes

1-inch diameter, 2mm thick galvanized metal pipes, 3.07m long (roof pipes) for connecting the arches at the top, with all fixing accessories.

Front and Rear Face Support Columns

1.5-inch galvanized metal pipes (center column), 2mm thick and 3m long, with all fixing accessories for installation at the center of the end-face arch.

Roof Support Pipes

Galvanized metal support pipes, 1-inch diameter, 2mm thick and 3m long, with all fixing accessories, installed from the roof pipe to the center of the first side arch.

Column Support Pipes

Building support pipes made of galvanized metal pipes, 1-inch diameter, 2mm thick and 3.5m long, including all necessary fixing components, installed between the plant-support pipe or end-face arch and the second column.

Tomato Support Pipes

Galvanized metal pipes, 1.25-inch diameter, 2mm thick and 3.5m long, for bracing. Includes all necessary fixing components between the second and third columns in each column row. Each row shall contain two pipes.

Double Chamber

A 3 × 2m chamber in front of the plastic greenhouse, properly constructed and securely fixed. It consists of eight frames with plastic and a door with a latch/handle, easy to open and close and securely fixed. The door shall be positioned opposite to the regular double-door opening but not directly facing it. Includes two 2.5m legs with Vita strips at the top on all four sides. The chamber shall be tightly sealed, with a mesh layer around the exterior and a plastic layer on the roof, matching the specified mesh and plastic materials, including all fixing accessories, plastic and strips.

Standard Double Door

1 m wide × 2 m high, including the frame. The frame shall consist of an external metal-profile frame with a central profile divider, with plastic installed and all necessary installation components.

Manual Plastic Rollers

Made of white galvanized steel, 3/4 inch, 1.5mm thick and 6 m long, designed to overlap male-to-female rather than being welded. Includes 1/2-inch handles, 2mm thick. Connection between the roller and handle shall be by a fitting and a pipe 10cm longer, with all components required for installation. Rollers shall be installed longitudinally along both sides of the plastic greenhouse and used to install the plastic, including roller clamps suitable for the required greenhouse specifications.

IR Roof Plastic

Infra-Red (IR) roof plastic, dimensions 37 × 8.5, thickness 0.12. IR allows 90% transmission of sunlight while reflecting infrared radiation emitted inside the greenhouse and returning it inward. UVA prevents harmful ultraviolet radiation from reaching the plants and helps prevent tearing of the plastic. AF provides anti-fog/anti-condensation properties. Diffusion distributes light. EVA provides flexibility to the plastic.

Side Plastic

Lower side plastic, 3 m wide / 120 microns. Required length shall be proportional to the dimensions of the specified greenhouse.

Skirt Plastic

Skirt plastic, 2.5 m wide and 120 microns thick, with a length suitable for the required greenhouse dimensions. The skirt shall be buried 50 cm into the soil around all sides of the greenhouse.

White Mesh

Agricultural mesh made of polyethylene, 50-mesh opening, 3m wide, thread thickness 0.24mm (50 openings per square inch). It shall be securely installed around the perimeter of the plastic greenhouse without joints. Required length shall be proportional to the dimensions of the specified greenhouse.

Timber (Lath)

1m long, 1.5cm thick and 4cm wide, treated and free of decay. Includes two-coat nails, 6cm screws, and braided rope.

Hanging Wires

Supply and installation of 2.8 mm hanging wire. Provide 8 vegetable hanging lines per bay, connected to wire hangers using 6 mm thick iron hooks, extending to the upper supports of the plastic greenhouse.

2. Drip irrigation network

No.	Item	Specifications
1	16 mm Water Line	16mm diameter polyethylene drip irrigation pipe, 200m per roll, compliant with Palestinian specifications. Distance between emitters: 40cm. Black in color; emitter flow rate: 4L/h; wall thickness: 1mm.
2	50 mm Conveyance Line (Main Line)	High-density polyethylene (HDPE) conveyance pipe, 50 mm diameter, capable of withstanding 8 bar pressure, with a wall thickness of not less than 2.9mm, compliant with Palestinian specifications and standards.
3	2-inch Valves	2-inch main valves; 1 valve + 1 main valve.
4	2-inch Line Start	2-inch line-start fitting.
5	2-inch Line End	2-inch line-end fitting.
6	2-inch Coupling	2-inch coupling/fitting.
7	16 mm Double Line Start	Double 16 mm line-start fitting.
8	16-liter Fertilizer Tank	16-liter iron fertilizer tank with a top opening equipped with a cap/press for inserting materials. It has one inlet and two outlets, including all necessary components for connecting it to the irrigation network.

3. Water tank (1.5 m3)

The water storage tank shall be a high-quality, triple-layer plastic tank with a total capacity of 1500L, manufactured from polyethylene using blow molding technology. The tank shall be designed to provide high durability, resistance to weather conditions, and suitability for both indoor and outdoor use. It shall be recyclable and resistant to UV radiation. The tank shall be available in both vertical (long) and compact (short) configurations, each equipped with a 3/4-inch outlet connection. The outer layer shall be black in color to

minimize light penetration and prevent algae growth. The tank shall ensure structural strength, leak-proof performance, and shall comply with applicable quality standards and specifications.

4. Seedlings

Small seedlings that are compatible with the soil and water quality in the area, so that they are green seedlings with a good root system and a suitable size for planting, so that they are 10 cm high and planted in a 1.50 inch brick, and are free of fungal and viral diseases and have been given a dose of Confidor before leaving the nursery to the agricultural land, according to the technical specifications and the specifications of the Ministry of Agriculture.

5. Fruit trees

Fruit tree seedlings shall be free from pests and diseases, with no visible tumors or abnormal swellings at the crown or root zone, particularly those associated with crown gall disease. The seedlings shall possess a strong, well-developed, and uniformly distributed root system within the container or soil ball. The stem shall be straight and vigorous.

6. Fertilizers

Chemical fertilizers to supply the soil with nutrients such as:

- Ammonium sulfate (25 kg)
- 13:13:13 Nitrogen, phosphorus, potassium (25 kg)
- 11:8.20 Nitrogen, phosphorus, potassium (25 kg)

7. Dark Blue Spraying Suit

Blue Spraying Suit, made of PVC, Sizes (L-XXL) equally, with high quality, A two-part long jacket that covers the knee joint with a zipper covered with a cover of the same material - elastic and rubbery from the wrist area with a cap, elastic waist and leggings, tight-fitting of sleeves, legs and neck.

8. Backpack Pressure Sprayer

Backpack Pressure Sprayer made of plastic, Battery operated, 16L capacity with easy pump action. Double switch, Handle switch and body switch, features an adjustable nozzle, comes with pack of nozzles included to fit various jobs, ergonomic sprayer bottle for increased comfort with adjustable shoulder straps.

9. Leather Filter Muzzle

A high-quality agricultural muzzle to prevent the inhalation of agricultural pesticides, with two variable special filters to prevent the leakage of harmful substances, sealed, you can adjust the length to fit the size of the head and to be comfortable wearing."

10. Rain Shoes Wellington

Black shoes, high quality, made of PVC material, waterproof, easy to clean and wipe, up to 50 cm high and 2.5 cm high heel, worn by sliding the foot from the top, sizes (38-44)

11. Safety gloves

- Material: Polyester
- Size: one size
- Coating: latex, palm-coated
- Certified: En 388 or equivalent of high quality - Water-resistant

12. First Aid Kit

The First Aid Kit shall consist of essential, high-quality medical supplies designed to support basic emergency response and primary healthcare needs. It shall include sterile and non-sterile gauze, cotton, and bandages for wound care, along with adhesive tapes and zinc oxide plaster for secure fixation. The kit shall also contain disposable latex gloves for hygiene, antiseptic solutions such as Povidone Iodine, Ethyl Alcohol (70%), and Sodium Chloride 0.9% for cleaning and disinfection, as well as a burn treatment cream, an instant cold pack, and a triangular bandage for injury management. A thermal emergency blanket shall be included to maintain body temperature in critical situations, in addition to a clinical thermometer for monitoring temperature. All items shall be packed in a durable, clearly labeled cloth bag with a medical logo to ensure safe storage, easy transport, and quick accessibility.

13. Packaging materials – Type 1

The product is a 400g square PET container designed for packaging thyme and other food products. It is manufactured from high-quality food-grade PET material, ensuring safety, durability, and suitability for food contact.

14. Packaging materials – Type 2

The product is a 1 kg PET container designed for packaging honey and other food products. It is manufactured from high-quality food-grade PET material, ensuring safety, durability, and suitability for food contact.

15. Plastic Gardening Pot

A durable 15-liter plastic gardening pot, available in black, made from strong, UV-resistant plastic suitable for prolonged outdoor exposure and direct sunlight. The pot is designed for home vegetable gardening, rooftop gardens, and growing large plants, providing sufficient space for healthy root development. It features multiple drainage holes at the bottom to prevent waterlogging and ensure proper drainage and aeration, supporting healthy plant growth.

16. Organic potting soil mix

Premium Organic Planting Mix – 80 Liters: Ready-to-use, nutrient-rich growing substrate composed of high-quality compost, peat moss, perlite, and added fertilizers. Provides excellent water retention, aeration, drainage, and nutrient availability, making it suitable for vegetables, and ornamental plants in containers and garden beds, while promoting healthy root development and vigorous plant growth.

17. Water hose reel

The unit shall consist of a heavy-duty portable reel frame manufactured from impact-resistant plastic with an ergonomic carrying handle and steel support axle for stability during operation and transport. The reel shall be pre-loaded with a minimum of 30 meters of reinforced, kink-resistant PVC garden hose with a nominal internal diameter of 1/2" / 12.7mm. The hose should be UV-stabilized, weather resistant, and suitable for continuous operation at a working pressure of up to 8 bars.

18. Heavy-Duty Garden Hoe with Wooden Handle

A durable heavy-duty garden hoe with a strong metal blade and solid wooden handle, suitable for soil preparation, loosening and cultivating soil, weeding, and general gardening activities. The tool shall be robust, ergonomic, and suitable for regular outdoor agricultural.

19. Pick Mattock with Wooden Handle

A durable heavy-duty garden pick mattock with a strong forged metal head and solid wooden handle, designed for breaking and loosening compacted soil, digging, cultivating, removing roots and weeds, and general soil preparation. The tool shall be robust, well-balanced, and suitable for regular agricultural and home-gardening use.

20. Steel Garden Rake with Handle

Durable steel garden rake with a long metal handle, suitable for loosening, leveling, and preparing soil, as well as removing weeds and plant debris. Strong, practical, and suitable for agricultural and gardening use.

21. Long Pruning Saw

TOTAL long pruning saw with a durable steel blade and strong handle, designed for cutting and pruning tree branches efficiently. Lightweight, easy to use, and suitable for agricultural and gardening applications.

22. Professional Pruning Shears

High-quality pruning shears with sharp, hardened steel blades and ergonomic non-slip handles, designed for precise and efficient pruning of tree branches, shrubs, vines, and plants. The shears shall provide smooth cutting action, durability, and comfortable handling for home-gardening use.

23. Watering Can

Plastic Garden Watering Can with Handle and Long Spout, 10Liter Capacity. Material: UV-resistant HDPE plastic. Colors: Yellow, Red, Green or approved equal. For watering plants and seedlings for home-gardening use.

24. Handheld Pressure Sprayer

Handheld Pressure Sprayer, 2 Liter Capacity. Tank: Translucent/Colored HDPE plastic with volume graduations. Pump: Manual pump action with pressure release valve. Lance: Adjustable nozzle for mist and jet spray. Handle: Ergonomic trigger grip. Applications: Plant watering, pest control, and cleaning.

25. Manual backpack sprayer

Manual Backpack Sprayer ,5 Liter Capacity - Professional Agricultural Use. This high-quality manual backpack sprayer is designed for agricultural and garden home work, suitable for spraying pesticides, liquid fertilizers, and controlling pests efficiently and easily.

26. Yellow Sticky Insect Trap Sheets

Yellow Sticky Insect Trap Sheets, Pack: 10 sheets per box with hanging strings. Non-toxic glue traps for professional control of flies, whiteflies, aphids, thrips and other flying pests in gardens, greenhouses and outdoor areas.

27. Black Agricultural Plastic Mulch

Black Agricultural Plastic Mulch – 500 m × 0.90 m, 45 Micron: High-quality black polyethylene agricultural mulch film, supplied in a 500-meter roll with a 90 cm width and 45-micron thickness. Designed for covering crop rows to suppress weed growth, reduce soil moisture evaporation, maintain soil moisture, and improve crop cleanliness. Suitable for open-field and protected cultivation, particularly for vegetables, strawberries, melons, and other row crops, and compatible with drip irrigation systems installed beneath the mulch.

28. Electronic Scale -10 kg

SF-400 digital electronic scale with a weighing capacity of up to 10 kg, clear LCD display, high accuracy, TARE function, multiple weighing units, and battery operation. Lightweight, easy to use, and suitable for weighing seeds, fertilizers, herbs, spices, and other lightweight agricultural materials.

29. Electronic Weighing Scale - 40 kg

TOTAL professional electronic weighing scale with a capacity of up to 40 kg and accuracy of 2 g. It features a clear LED display for weight, price, and total amount, a durable stainless-steel weighing platform, and an easy-to-use keypad with price memory buttons. Strong and durable design suitable for daily commercial and agricultural use.

30. Seedling Transplanting Tool

A high-quality stainless-steel tool designed to make seedling planting faster, easier, and more efficient. Suitable for transplanting tomato, onion, and other vegetable seedlings, with a simple and easy-to-use push-and-pull operation. (Suitable for open-field farming and home gardens).

LOT 2 – Agricultural Machine

1. Electric Tomato Juicer

The machine shall be equipped with a motor of 2.2 kW power and operate on an electrical supply of 220 V / 50 Hz. It shall include a processing chamber with dimensions of 34.5 × 50 × 15 cm, designed to ensure efficient material handling and optimal performance. The machine shall achieve a production capacity ranging between 250 and 500 kg per hour, making it suitable for medium-to-high-volume operations. The structure of the machine shall be fully constructed from food-grade stainless steel to ensure hygiene, corrosion resistance, and compliance with food safety standards

2. Spice grinder (Thyme)

One commercial spice grinding machine with a minimum capacity of 20 kg/hour, suitable for grinding dry spices, herbs, and similar food products into fine powder. The machine shall be manufactured from food-grade stainless steel (SS304 or equivalent) in all food-contact parts and supplied complete with interchangeable screens/sieves and all necessary accessories for full and safe operation.

3. Filling and packaging machine



4. Tomato and pepper chopping machine

The machine shall be equipped with a stainless-steel feeding hopper to ensure hygienic material intake and compliance with food safety standards, and a high-quality aluminum alloy grinding head designed for efficient processing and durability. The transmission system shall incorporate a double bearing belt mechanism to provide smooth operation and reduced vibration, while an independent waterproof switch shall ensure safe

and reliable operation under various working conditions. The unit shall be powered by a high-efficiency 2200 W copper-core electric motor, protected by a dedicated motor guard for enhanced safety. The discharge outlet shall be constructed from stainless steel to maintain product hygiene and corrosion resistance. The machine frame shall be made of a thickened triangular iron structure to ensure stability and strength during operation, and it shall be mounted on silent rubber wheels to allow easy mobility with minimal noise.

5. Large Stainless-Steel Pots

The 50-liter pot shall be made entirely of food-grade stainless steel (Grade 304 or 316), ensuring high hygiene standards and resistance to corrosion. It shall feature a durable construction with adequate thickness for efficient heat distribution, along with a tightly fitted lid and heat-resistant handles.

6. Electric Honey Extractor

The honey extractor shall be constructed entirely from food-grade stainless steel (SS304) to ensure hygiene, corrosion resistance, and preservation of honey quality without any chemical interaction. The unit shall be available in multiple capacities ranging from 4 to 24 frames, depending on operational requirements. It shall be designed in either tangential (reversible) or radial configuration, allowing efficient extraction with or without manual frame turning. The extractor shall be powered by an electric motor operating at 220 V (or optionally 12 V battery), equipped with a digital speed controller or adjustable regulator to ensure smooth and controlled centrifugal force during operation. The unit shall include a stainless-steel bottom outlet valve for easy honey discharge and cleaning, as well as a transparent top lid made of durable material (acrylic or polycarbonate) to allow safe monitoring of the extraction process. The machine shall be designed for stable, efficient, and continuous operation suitable for small to large-scale beekeeping applications

7. Chest freezer

Grade chest freezer suitable for the storage and preservation of frozen food and agricultural products, with a minimum storage capacity as specified, capable of maintaining a temperature of -18°C or below. The freezer shall be equipped with high-efficiency thermal insulation, a reliable commercial refrigeration system, adjustable temperature control, and durable sliding tempered-glass lids suitable for product display and easy access. The unit shall operate on 220–240V, 50Hz, be energy efficient, suitable for continuous commercial operation, and include internal storage baskets or compartments for organized product storage. The freezer shall be supplied with a minimum one-year warranty, after-sales technical support, and availability of spare parts.

8. Stainless Steel Double-Door Upright Freezer

grade freezer with a durable stainless-steel body and interior, two insulated doors, adjustable thermostat and digital temperature display. It shall maintain a temperature of -18°C to -22°C or lower, with efficient and uniform cooling, high-quality thermal insulation, adjustable/removable shelves, magnetic door gaskets, and heavy-duty lockable caster wheels. The unit shall be suitable for continuous commercial use, with an approximate size of 148 × 84 × 202 cm and power supply of 220–240 V / 50 Hz."

9. Double-Door Refrigerator

Grade upright refrigerator with two glass doors, durable construction, and efficient cooling system. The unit shall have a minimum capacity of 1,081 liters, energy consumption of approximately 6.8 kWh, adjustable shelves, internal LED lighting, digital temperature control/display, and lockable caster wheels. Approximate dimensions: 125 cm (W) × 70 cm (D) × 205 cm (H), suitable for continuous commercial use and refrigerated food"

10. Three-Door Display Refrigerator

Grade upright refrigerator with three glass doors, durable construction, efficient cooling system, adjustable shelves, internal LED lighting, digital temperature control/display, and caster wheels. The unit shall have a minimum capacity of 1,664 liters, energy consumption of approximately 9.90 kWh, and be suitable for continuous commercial use and refrigerated food/beverage storage. Approximate dimensions: 188 cm (W) × 70 cm (D) × 205 cm (H).

11. Hand Impulse Heat Sealer

12-inch (30 cm) impulse heat sealer with adjustable timer and 8 temperature settings, suitable for sealing plastic bags, polythene, bubble wrap, and other packaging materials. It features an automatic LED indicator, ergonomic long handle, high-temperature-resistant sealing components, and a heat dissipation system for safe operation. Power: 430W, 110V, sealing time 0.2–1.5 seconds, with a maximum sealing thickness of 10 mil.

12. Manual Cling Film Wrapping Machine

Manual stainless-steel cling film wrapping machine designed for wrapping food trays, fruits, vegetables, and other food products. Suitable for cling film rolls up to approximately 450 mm width, with an integrated heated cutting/sealing system, adjustable temperature control, and easy operation. Compact, durable, hygienic, and suitable for supermarkets, fruit shops, food businesses.

13. Four-Door Display Refrigerator

grade upright refrigerator with four glass doors, durable construction, efficient cooling system, adjustable shelves, internal LED lighting, digital temperature control/display, and caster wheels. The unit shall have a minimum capacity of 2,060 liters, energy consumption of approximately 10.15 kWh, and be suitable for continuous commercial use and refrigerated food/beverage storage. Approximate dimensions: 250 cm (W) × 70 cm (D) × 205 cm (H).

Company Name: _____

Authorized Representative Name: _____

Stamp & Signature: _____