

Dear Vendor,

The New Jersey Department of Agriculture, Division of Plant Industry is seeking bids for Gutterhouse Greenhouse renovation.

Find attached documents for your review. To bid, please respond in writing via email no later than May 7, 2024, at 4:00 pm EST.

When responding, please include both the attached Agency Request for Proposal form with a complete cost of the whole project from start to finish. As well as a separate formal quote. All vendors should provide two quotes, one for labor and then another quote for labor and materials.

The bid request has also been posted to the New Jersey Department of Agriculture website, which can be viewed at <https://www.nj.gov/agriculture/divisions/pi/>. This bid request is open publicly to all interested vendors.

Feel free to email Jennifer.harding@ag.nj.gov and marcello.mangano@ag.nj.gov with any questions you may have.

Thank you,

Jennifer Harding
Jennifer.Harding@ag.nj.gov
NJ Department of Agriculture
Division of Plant Industry
Phillip Alampi Beneficial Insect Laboratory
PO Box 330
Trenton, NJ 08625-0330
Phone: 609-530-4192
Fax: 609-530-4195

For FedEx and UPS:
Phillip Alampi Beneficial Insect Laboratory
20 Cosey Road
West Trenton, NJ 08628



<https://www.nj.gov/agriculture/divisions/pi/prog/buglab/>

Justification for Gutterhouse Greenhouse Replacement

The New Jersey Department of Agriculture Beneficial Insect laboratory requires the replacement and repair of the greenhouse roof, support, and auxiliary equipment that is in Ewing New Jersey. The Gutter Connected Poly Greenhouses are known for their superior airflow and temperature control and are suitable for multiple and varied vegetable crops, plants, and flower crops that are needed for the rearing of beneficial insects. Due to age and storm damage the greenhouse is failing and requires renovation. The roof, walls and support are original to the structure and show signs of failure and collapse (see photos below). The NJDA Plant Industry has provided a list and would like vendors to submit a bid on the items required.





Greenhouse Description

Price

2 24 x 60 Gutter Connect

Multiple Bay

Posts: 4" x 4" Square Tubing
Bows: 2" Square 14 Gauge
Purlins: 1-1/2" Sq. x 14 Ga. Purlins (8 runs per bay)
Trusses: 2 x 2 x 14 Gauge Cross Truss w/ 1.625 x 16 Gauge Vertical
Side Wall Height: 10 Feet
Bow Spacing: 4 Feet
Hardware: Complete Hardware Package for Frame Assembly
Gutter: 10" Extruded Aluminum Gutters

on welded base plates anchored to concrete

Wind and Snow Loads

Wind Load (WL) 105 mph, 3 second gust
 Snow Load (SL) 30 lbs. psf, Ground Snow
 Risk Category I

The above Wind and Snow Loads may or may not meet your Local Building Code Requirements.

1 Sealed Engineered Drawings for Structural Design.

Does NOT include foundation design or drawings.

Intended Crop: Educational

8 mm Twin Wall PCSS Roof Covering , standard clear

2 Bay(s) Twin Wall PCSS Roof Covering Kit for a 24 x 60 x 10 Gutter Connect Greenhouse to include: all necessary hardware, extrusions, flashing, etc.

Steel End wall Framing Kits

Doors

2 6'-0" x 7' -0" ADA compliant double swing SOLID door. Includes: 20 ga. Polystyrene Door leaf, 16 ga. 4-1/4" frame, bb hinges (3), threshold sweep, kerf weatherstrip, Sargent Rim Panic hardware, lever lockset and closer.

2 4'-0" x 7' -0" ADA compliant single swing door with 24" x 30" Tempered Glass Light Kit. Includes: 20 ga. Polystyrene Door leaf, 16 ga. 4-1/4" frame, bb hinges (3), threshold sweep, kerf weatherstrip, Sargent Rim Panic hardware, lever lockset and closer.

Internal Retractable Shade / Heat Retention System

1 Internal Retractable Shade / Heat Retention System, (1) zone, 48' x 60', flat profile w/ Harmony 5747 FR

Irrigation; (4) zones within the 48' x 60' overall area.

1 Dramm overhead irrigation system (description on separate page).

LED Lighting system and uni-strut support

1 California Lightworks LED system, quantity (64) (description on separate page).

1 Uni Strut railing (description on separate page).

4 Steel End Wall Kit(s) for a 24 x 60 x 10 Gutter Connect Greenhouse to include: wall studs, horizontal framing and all attaching hardware (L-Brackets, Tek-screws, etc.)

8 mm Twin Wall PCSS End wall Covering , diffused (light white)

4 8mm Twin Wall End wall covering Kit(s) for a 24 x 60 x 10 Gutter Connect Greenhouse to include: all necessary 8mm twin wall polycarbonate sheeting, "H" and "Base" extrusions, Tek screw fasteners, along with Gable flash wirelock with wire, foil tape and flashing for all openings.

8 mm Twin Wall PCSS Side Wall Framing & Covering , diffused (light

2 white) Steel Side Wall framing & Covering kit(s) for a 24 x 60 x 10 Gutter Connect Greenhouse to include: horizontal framing, covering and all attaching hardware (L-Brackets, Tek-screws, etc.)

Ventilation System

Horizontal Air Flow Fans

8 18" Horizontal Air Flow Fan(s) complete with 3 blades, guard and a split capacitor 115 volt 60 Hz 1.1 amp motor. This fan produces 1695 CFM to circulate the air helping to maintain a consistent temperature inside the greenhouse reducing stratification (stale air) thus reducing disease.

Exhaust Fans

4 36" Quietaire GCS Slant Wall Exhaust Fan: Single Speed 3/4 HP, 11.4 Amps, 11,253 CFM at .10 SP Wired for 115 volt operation. All Galvanized construction for corrosion resistance. Fan is equipped with shutter & guard.

Shutters

4 60" Motorized Quietair Shutter, made of heavy duty aluminum with aluminum pivot rods and nylon bearing. Counter balanced blades ensure smooth operation.

8 mm PCSS Ridge Vent System

2 Single Wing PCSS Ridge Vent System 60 _____ ft. long. To include, all aluminum extrusions, drive shaft, shaft hangers, vent arms, etc. Does not include Drive Motor or Incremental Thermostat.

2 24 Volt 180 NM drive motor with mounting hardware - No Big Boss

1 Big Boss (1 required for every 2 180 nm motors)

Modine Standard Heating System

4 100,000 BTU Modine Model HD100A Heater

Modine's unit heater delivers 80% thermal efficiency in a small package. These heaters are a great fit for greenhouse applications. Featuring a aluminized steel primary heat exchanger. Totally enclosed fan motors and all controls mounted inside the cabinet for protection from airborne moisture and dust. Comes set-up for LP gas, Natural gas conversion available.

4 4 " Vent pipe kit for: 100,000 BTU Modine Model HD100A Heater

Features adjustable elbows, wall collars and vent stack cover. Double wall galvanized duct with twist and lock connections.

4 Heavy duty heater hanger assembly for a 100,000 BTU Modine Model HD100A Heater

To include eyebolts, chains and all necessary mounting hardware.

4 Modine Natural Gas Heater Conversion kit (30,000-400,000)

Environmental Controller

1 Climate Boss Controller by Bartlett Instruments. Touch screen technology, unit comes with pre-wired relay box for ease of installation. Allows for programmable temperature settings in Day, Night and DIF stages. Includes 2 cycle timers for irrigation and LED lights. An alarm output for high or low temps, power loss, or hardware trouble. Statistics for high, low and average temperatures for the past 7 days are available as graphs. Includes Weather Boss for wind and rain sensing for ridge vent closure. WiFi Enabled Controller for Updates and HeadGrower app which allows remote control and programing.

