

**THE
HARRIS COUNTY SCHOOL DISTRICT
REQUEST
FOR
SEALED PROPOSALS**

Greenhouse Structure at Harris County High School

HARRIS COUNTY SCHOOL DISTRICT

HAMILTON, GEORGIA

HARRIS COUNTY SCHOOL DISTRICT

REQUEST FOR

COMPETITIVE SEALED PROPOSALS

A. INVITATION TO PROPOSE

The **Harris County School District** is requesting proposals from interested and qualified Greenhouse construction vendors/firms to construct a greenhouse at Harris County High School. It is the intent of the Harris County School System to enter into a contract offering the best proposal(s), as determined by the School System, for providing a greenhouse as specified in this RFP.

The desired specifications of the of the greenhouse to be constructed is contained in this RFP and available at the Business Services Department, 140 Barnes Mill Road, Hamilton, GA 31811.

The desired specifications and scope of this project are defined in the attached bid specifications.

Bid documents may be examined by contacting Arville Mooneyham, Project Manager, Harris County School District at 706-628-4220 x 1301 or 706-457-9092.

Harris County School District (hereinafter referred to as School System) plans to select the most qualified company to enter into a contract for the maintenance as referenced above.

Final selection will be made in accordance with the policies and administrative directives of the School System and any other statutory provisions.

Responses must be received by the Harris County School District in the Business Services Office Building at 140 Barnes Mill Road, Hamilton, Georgia, 31811 on or before **12:00 p.m. noon** Eastern Standard Time on **Tuesday, January 25, 2022**.

After which time and date they will no longer be accepted. Late responses will be unopened and will not be considered. To be accepted, all responses must be submitted in a sealed package marked "**Request for Competitive Sealed Proposals for Greenhouse Construction**."

Sealed bids must be forwarded or delivered to:

Dr. Justin Finney, Asst. Superintendent
Harris County School District
Business Services Office Building
132 Barnes Mill Road (mailing)
140 Barnes Mill Road (physical)
Hamilton, Georgia 31811

Oral or telegraphic (including FAX) responses are not acceptable.

Project selection timeline:

Public Advertisement:	<u>December 14, 2021</u>
Requests for Clarification Due:	<u>January 14, 2022</u>
Proposals Due:	<u>January 25, 2022 @ 12:00 pm Noon</u>
Award will be within 30 days.	

Please direct all questions regarding this RFP and the program it represents to:

Mr. Arville Mooneyham
Project Manager
Harris County School District
132 Barnes Mill Road (mailing)
140 Barnes Mill Road (physical)
Hamilton, Georgia 31811
Mooneyham-arville@harris.k12.ga.us

Site visits to inspect the site can be arranged by with Mr. Arville Mooneyham with Harris County School District at 706-457-9092. It is the responsibility of the respondent to arrange and conduct any site visits necessary to familiarize themselves with existing conditions.

The school system reserves the right to select or reject any and all responses as a result of this Request for Proposal. The school system is not liable for any costs incurred by any person or firm responding to this Request for Proposal.

Disposition of Proposals

Suppliers must provide a quote as close to the described requirements as possible in this RFP (see Appendix A), if unable to provide requirement, please note. To achieve a uniform review process and the maximum degree of comparability, proposals are required to be organized in the following manner:

A. Title page that includes the subject of the proposal, name of institution, address, name of contact person, telephone and fax numbers, and date.

B. Quote on Greenhouse, with a list of everything that is included in Quote of Installation if applicable

Your proposal may not be considered, and may be rejected as non-responsive, if it does not include all the information requested. The School System reserves the right to reject any and all proposals, in whole and in part, received in response to the RFP at any time during the solicitation process and for any reason.

Prices

Prices will be in effect for a period of 6 months.

Proposal Evaluation

A committee consisting of School System Staff will evaluate the proposals. The purpose of the committee will be to evaluate responses, to rank the proposals, and to make a recommendation to the School System regarding the proposal which best meets the School System's requirements.

The committee will evaluate the proposals using the following criteria:

A. Cost of Greenhouse

B. Cost of Installation

C. Compliance with Greenhouse specifications (Appendix A)

The committee will consider all information provided and may consider relevant information from other sources. The School System will award the contract to the responsible greenhouse supplier submitting the best proposal. **The lowest priced proposal is not necessarily the best proposal.**

Taxes

The School System is exempt from state and local sales and use taxes on the services supplied pursuant to this proposal.

APPENDIX A

The following are the desired specifications for the proposed greenhouse. Alternates will be considered. Specifications must include details on concrete foundation needed for the structure to be provided by the contractor or an alternate contractor in an alternate proposal and contract. In the proposal, contractor should outline possible School System responsibilities (concrete foundation, electrical power supply, water supply, drainage etc.).

"Educator" Series Greenhouse Structure

30 ft. Wide by 72 ft Long, with 6 ft. Sidewalls

Galvanized steel frame consisting of:

- A) Column Post: Allied "Gatorshield" 2" x 4" x 14 ga. rectangle w/welded Plates - 6' Spacing
- B) Bows: Allied 2" x 3" x 14 ga. Rectangle - 6' Spacing
- C) Trusses: Allied "Gatorshield" 2" x 2" x 14 ga. Square, Spans 18' - 4" Wide.
- D) Uprights: Allied "Gatorshield" 1-3/8" Round
- E) Purlins 12 Runs Allied "Gatorshield" 1-3/8" Round
- F) Ridge: Extruded Aluminum ridge cap allows easier installation & maintenance.
- G) Roof Glazing System: Extruded Aluminum roof channels spaced 6 ft. apart.
- H) Roof Glazing: 8mm clear twin wall no drip polycarbonate panels. (10 yr. warranty)
- I) Eave Glazing System: Aluminum extruded eave channels allows easier installation & maintenance.
- J) Eave Glazing: 8mm clear twin wall no drip polycarbonate. (10 yr. warranty)
- K) Sealed Engineering Drawings for Structural Design

Wind and Snow Loads

Wind Load (WL) 115 mph, 3 second gusts
Snow Load (SL) 5 lbs. psf, Ground Snow
Risk Category II

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

End Gables

Front End Gables: Framed for 2 - 42" exhaust fans and
1 - 42" x 6' - 6" Personnel doors.

- A) Framing Studs: Allied "Gatorshield" 2" x 2" x 14 ga. Square w/ brackets for wedge anchor attachment.
- B) Horizontal Purlins: Allied "Gatorshield" 2" x 2" x 14 ga. Square
- C) Base Extrusion: Aluminum base extrusion attractively seals and "trims out" base of greenhouse.

Rear End Gables: Framed for 5 ft. x 20 ft. Evaporative Cooling System
and 1 - 42" x 6' - 6" Personnel Door.

- A) Framing Studs: Allied "Gatorshield" 2" x 2" x 14 ga. Square w/ brackets for wedge anchor attachment.
- B) Horizontal Purlins: Allied "Gatorshield" 2" x 2" x 14 ga. Square
- C) Base Extrusion: Aluminum base extrusion attractively seals and "trims out" base of greenhouse.

End Gable glazing: 8mm clear twinwall no drip polycarbonate panels, complete framing, glazing, and extrusion package. (10 yr. warranty)

Ventilation

- A) 2 42" Quietaire GCS slant wall exhaust fan 1hp: 15490 cfm ea. @ .10 SP 110V or 220V.
1 fan is 2 speed and 1 fan is single speed both equipped with shutter and guard.
Offering a minimum of 1.3 air exchanges per minute @ .10 inches of static pressure.
- B) 1 39" Motorized Quietair Shutter, located above cooling pad offers a fresh air intake at the minimum stage cooling.
- C) 5 x 20 ft. Stainless Steel Quietaire Evaporative Cooling System with trough, plate and 6" thick pad. The 6" pad material offers maximum cooling.
Uses a 65 / 15 degree water/air flow with a 420 per maximum face velocity.
System is self contained and does not require a reservoir tank.
Includes sump pump and float valve for proper water level regulation.
- D) 5 x 20 ft, Automatic Wall Vent located behind the evaporative cooling system. Wall vent operates using a motorized rack & pinion drive system offering years of maintenance free operation. Includes 24 volt motor, mounts and vent boss.
Includes extruded aluminum frame and 10 yr. warranted 8mm polycarbonate covering.

Heating

HER 250 3201 Modine electric heaters. These heaters are designed to operate at 240v and require a 3 phase service. These heaters have a KW rating of 25 each.

- B) 3 Horizontal Air Flow Fans (HAF) 18" - 3 bladed fans complete with guard and a split capacitor 115 volt 60 hz motor, 1.1 amps develops 1790 CFM. These fans circulate the air to maintain a consistent temperature inside the greenhouse, in addition, these fans reduce the stratification (stale air) thus reduces the risk of plant disease.

Doors

- A) 1 - 42" x 6' - 6" - 3/4 Glass, A.D.A. compliant single swing door(s) with lever action lock and key. Comes pre-hung in Aluminum frame.
- B) 1 - 72" x 6' - 8" - 3/4 Glass, A.D.A. compliant double swing door(s) with lever action lock and key. Comes pre-hung in Aluminum Frame.

Automatic Temperature Control

- A) Bartlett Instrument Company Climate Boss Controller.
Touch screen technology enables you to control either mechanically or naturally cooled greenhouses. This unit comes with pre-wired relay box for ease of installation. the Climate Boss can be programmed for 1 or 2 zones and allows for programmable temperature settings in Day, Night and DIF stages. Includes 2 cycle timers for irrigation misting, or lights: a vent stage for dehumidification: an alarm output for high or low temperatures for the past 7 days are available as graphs. Available for an additional cost is the CIS temperature software package and HeadGrower app which allows remote control and programming.

Hanging Basket Rails:

- A) Will provide 6 runs of 1-3/8" x 17 ga. Allied "Gatorshield" tubing running length of benches. 60 feet long rail length

Shade Cloth

- A) Will provide a 33 foot by 71 foot (2343 Square Ft.) Svensson_Harmony Shade Cloth with 51% Shading factor. Grommets and taped 2 foot on centers. The shade cloth will be applied to the roof of the finished structure and to be attached to the midpoint on side wall for easy installation and removal. The shade cloth will help reduce inside temperature and allow optimum growing for "Partial Sun" plant material. Included is 3/4" - 1 hole clamp with hardware and Lace Rope for Shade Cloth attachment.

Emergency Lighting / Exit Signs / Fire Extinguisher

- A) Will be located above doors and will illuminate the word "EXIT" at all times, also has emergency lights powered by a rechargeable battery. Emergency lights should come on when the power is interrupted for any reason. One Multi purpose dry chemical A-B-C rated 10 lb. Fire extinguisher charged with formulated siliconized dry chemical UL rated for fighting paper, wood, fabric, grease, flammable liquid and electrical fires.

Benches

- A) Benches are framed with aluminum extrusions and rectangular galvanized steel tubing for superior strength. Bench mesh is 3/4" x 13 gauge galvanized expanded metal. Bench cross braces are made of 1" x 2" rectangular tubing and spaced 2 ft. apart, bench legs consist of 1" x 2" rectangular tubing.

Qty. 16 5' x 8' - 6" Portable Benches

Qty. 1 3 ft. Continuous Bench by 72 ft. long.

Irrigation:

A) Mist:

1- Complete system with brass high pressure regulator, filter, punch tool, PVC pipe, gate valves, zone controller, and solenoids. Mist irrigation plumbed above benches with 36" long misters spaced 2' on centers and will have manual shut off. Hanging basket drippers are to be adjustable flow and have the capacity to be turned off. Drippers are spaced 24" on centers and 24" long.

B) Fertilizer Injector:

1- Installed minimum of 30" ground for easy access, all irrigation outlets are serviced through fertilizer injector. Unit provides a maximum of 30 GPM of fertilizer/water solution output. Unit must be installed with bypass and gate valves for flexibility.

C) Controller:

Rain Bird Model ESP 4M Modular Irrigation Controller. Includes an additional 3 zone module to give a total of 7 zones. This controller allows for future expansion up to 13 zones. Has 3 independent programs to give the flexibility

D) Includes Galvanized Steel Solenoid Manifold.

NOTE: Minimum of 55 PSI required for proper operation of irrigation system.

Installation: (Completed by Contractor)

A) Completion

- 1) Will provide all labor and materials to erect greenhouse using professional greenhouse builders experienced in every aspect of the "Educator" according to manufacture's specifications.
- 2) Upon completion of work, will test all equipment for proper operation.
- 3) Instruct school personnel in all aspects of operation and maintenance manuals on covering and equipment.

B) Electrical

- 1) Will furnish all labor and materials to install 4 - 115 volt receptacles, two on each end of greenhouse.
- 2) Will furnish all labor and materials to properly wire all greenhouse equipment **into 400 amp breaker box.**
- 3) Will furnish all labor and materials to provide necessary utility vapor tight lamps with guard installed 12' apart down length of greenhouse. 100 watt bulb included.
- 4) National Electric Codes will be adhered to throughout the greenhouse.

C) Plumbing

- 1) Will furnish all labor and materials to provide: 7 spigots: 3 plumbed to injectors 4 plumbed to clear water supply utilizing Schedule 21 PVC Pipe or equivalent. If there is not an irrigation system in the contract, 4 spigots will be plumbed for clear water.
- 2) Will furnish all labor and material to plumb evaporative cooling system
- 3) Will furnish all labor and material for installation of irrigation system. (if ordered)

School System Responsibilities

NOTE: Site Preparation, Foundation and Flooring is the responsibility of the school system.

Electrical

- A) Required to furnish 120/240 volt single phase electrical supply within 5' of greenhouse located near front door as shown on bench layout drawing.
- B) 20' of additional electrical cable to be provided to effectively connect power without splice.

Plumbing

- A) Required to furnish minimum 1" PVC water supply within 5' of greenhouse located near front door as shown on bench layout drawing. Minimum of 55PSI of pressure required.

Drainage

- A) Local system will perform final connection of drainage system.
- B) Applies to structure with sinks and / or solid concrete slabs with center drain.

Gas Line

- A) School system (or others) to furnish gas line for heaters inside of greenhouse and is responsible for final hook up to heater.
- B) Applies to both LP and Natural gas heater systems.

Access

- A) Workers must have access to construction site from 7 A.M. to 6 P.M.
- B) Workers must have access to restroom facilities.

Utilities

- A) Power supply and water supply must be run to site prior to the beginning of any construction.