

University of South Carolina- Baruch

GEORGETOWN, SOUTH CAROLINA

BARUCH - REPAIR/REPLACE HVAC UNITS

Project Number: CP00373307

August 7, 2013

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Project Number: CP00373307

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Invitation for Minor Construction Quotes

SCBO NOTES 2, 4 and 5 APPLY TO THIS INVITATION FOR QUOTESPROJECT NAME: USC Baruch Repair/Replace HVAC unitsPROJECT NUMBER: CP00373307PROJECT LOCATION: USC Baruch, Georgetown SCBID SECURITY REQUIRED? Yes ☐ No ☒PERFORMANCE BOND REQUIRED? Yes ☐ No ☒PAYMENT BOND REQUIRED? Yes ☐ No ☒ CONSTRUCTION COST RANGE: \$15,000-\$25,000

DESCRIPTION OF PROJECT:

Furnish and install two (2) 10 ton rooftop commercial heat pump package HVAC units. Work includes the removal of two (2) 10 ton existing rooftop units. Include all labor, materials, and equipment necessary for complete start up operation. It is the contractor's responsibility to download all information from the website.

All bidders are responsible for visiting the job site

Small and Minority Owned Buisness participation is strongly encouraged.

A/E NAME: University of South CarolinaA/E CONTACT: Dwight CathcartADDRESS: 743 Greene StreetPHONE: 803.777.9827

Fax: _____

CITY: ColumbiaSTATE: scZIP: 29208E-MAIL: dcathcar@fmc.sc.edu

PLANS ON FILE AT: AGC: _____

DODGE: _____

OTHER: _____

PLANS MAY BE OBTAINED FROM: http://purchasing.sc.edu (See Facilities Construction Solicitation & Awards)PLAN DEPOSIT AMOUNT: _____ IS DEPOSIT REFUNDABLE? Yes ☐ No ☐PRE-QUOTE CONFERENCE? ☒ Yes ☐ No MANDATORY ATTENDANCE? ☐ Yes ☒ NoDATE: 8/22/2013 TIME: 1pm PLACE: USC Baruch Marine Field Lab, 2306 Crabhaul Rd, Georgetown, SCAGENCY: University of South CarolinaNAME AND TITLE OF AGENCY COORDINATOR: Juaquana Brookins, Procurement Specialist IIADDRESS: 743 Greene StreetPHONE: 803.777.3596Fax: 803.777.7334CITY: ColumbiaSTATE: SCZIP: 29208E-MAIL: jbrookin@fmc.sc.eduIFQ CLOSING DATE: 8/29/2013TIME: 1 pmLOCATION: USC Baruch Marine Field Lab, 2306 Crabhaul Rd, Georgetown, SC

IFQ DELIVERY ADDRESSES:

HAND-DELIVERY:

Paul Kenny -University of South Carolina
Baruch Marine Field Lab
2306 Crabhaul Rd, Georgetown, SC 29442

MAIL SERVICE:

Paul Kenny -University of South Carolina
Baruch Marine Field Lab
2306 Crabhaul Rd, Georgetown, SC 29442

IS PROJECT WITHIN AGENCY CONSTRUCTION CERTIFICATION? (Agency MUST check one) ☒ YES ☐ NO

APPROVED BY: _____

(State Engineer)

(Date)

SE-331

Quote Form

2011 Edition

Quotes shall be submitted only on SE-331

QUOTE SUBMITTED BY: _____
(Offeror's Name)

QUOTE SUBMITTED TO: University of South Carolina
(Agency Name)

FOR PROJECT: CP00373307 USC Baruch Repair/Replace HVAC units
(Number) (Name)

OFFER

1. In response to the Form SE-311, *Request for Minor Construction Quotes*, and in compliance with the *Instructions to Bidders* for the above-named Project, the undersigned **OFFEROR** proposes and agrees, if this Quote is accepted, to enter into a Contract with the **AGENCY** in the form included in the Solicitation Documents, and to perform all Work as specified or indicated in the Solicitation Documents, for the prices and within the time frames indicated in the Solicitation and in accordance with the other terms and conditions stated.

2. Pursuant to Section 11-32-3030(1) of the SC Code of Laws, as amended, **OFFEROR** has submitted Bid Security as follows in the amount and form required by the Solicitation Documents:

☐ Bid Bond with Power of Attorney ☐ Electronic Bid Bond ☐ Cashier's Check
(OFFEROR check one, if Bid Security is required)

3. **OFFEROR** acknowledges the receipt of the following Addenda to the Solicitation documents and has incorporated the effects of said Addenda into its Quote:

ADDENDUM No: _____

4. **OFFEROR** agrees that this Quote, including all bid alternates, if any, may not be revoked or withdrawn after the opening of bids, and shall remain open for acceptance for a period of 30 Days following the Quote Date, or for such longer period of time that **OFFEROR** may agree to in writing upon request of the **AGENCY**.

5. **OFFEROR** agrees that from the compensation to be paid, the **AGENCY** shall retain as Liquidated Damages the amount of for each calendar day the actual construction time required to achieve Substantial Completion exceeds the specified or adjusted Contract Time for Substantial Completion, as provided in the Contract Documents.

6. **OFFEROR** herewith submits its offer to provide all labor, materials, equipment, tools of trades and labor, accessories, appliances, warranties and guarantees, and to pay all royalties, fee, permits, licenses and applicable taxes necessary to complete the following items of construction work:

6.1 BASE BID _____
(enter BASE BID in figures only)

6.2 ALTERNATE NO. 1 _____ to be ADDED/DEDUCTED from BASE BID.
(circle one)

6.3 ALTERNATE NO. 2 _____ to be ADDED/DEDUCTED from BASE BID.
(circle one)

FEIN/SSN: _____

SC Contractor's
License Number: _____

Address: _____

Telephone/Fax _____

E-mail _____

This Quote is hereby submitted on behalf of the Offeror
named above.

BY: _____
(Signature of Offeror's Representative)

(Print or Type Name of Offeror's Representative)

ITS: _____

SE-331

USC SUPPLEMENTAL GENERAL CONDITIONS FOR CONSTRUCTION PROJECTS

1. Contractor's employees shall take all reasonable means not to interrupt the flow of student traffic in building corridors, lobbies and stairs. All necessary and reasonable safety precautions shall be taken to prevent injury to building occupants while transporting materials and equipment through the building to the work area. Providing safe, accessible, plywood pedestrian ways around construction may be required if a suitable alternative route is not available.
2. Fraternization between Contractor's employees and USC students, faculty or staff is strictly prohibited-zero tolerance!
3. USC will not tolerate rude, abusive or degrading behavior on the job site. Heckling and cat-calling directed toward students, faculty or staff or any other person on USC property is strictly prohibited. Any contractor whose employees violate this requirement will be assessed a fine of up to \$500 per violation.
4. Contractor's employees must adhere to the University's policy of maintaining a drug-free and smoke-free/tobacco free workplace.
5. Contractor must sign a Contractor Key Receipt/Return form before any keys are issued. Keys must be returned immediately upon the completion of the work. The Contractor will bear the cost of any re-keying necessary due to the loss of or failure to return keys.
6. A welding permit must be issued by the University Fire Marshall before any welding can begin inside a building. Project Manager will coordinate.
7. Contractor must notify the University immediately upon the discovery of suspect material such as those potentially containing asbestos or other such hazardous materials. These materials **must not** be disturbed until approved by the USC Project Manager.
8. At the beginning of the project, the USC Project Manager will establish the Contractor's lay-down area. This area will also be used for the Contractor's work vehicles. No personal vehicles will be allowed in this area, or in any areas surrounding the construction site that are not regular or authorized parking lots. Personal vehicles must be parked in the perimeter parking lots. Parking permits can be obtained at the USC Parking Office located in the Pendleton Street parking garage. The lay down area will be clearly identified to the contractor by the PM, with a sketch or drawing provided to Parking. In turn, the contractor will mark off this area with a sign containing the project name, PM name, Contractor name and contact number, and end date. Where this area is subject to foot traffic, protective barriers will be provided as specified by the PM. The area will be maintained in a neat and orderly fashion. Vehicles parked in the lay down area (or designated parking areas) will be clearly marked or display a CPC furnished placard for identification.

9. Contractor will be responsible for providing its own temporary toilet facilities, unless prior arrangements are made with the USC Project Manager.
10. Use of USC communications facilities (telephones, computers, etc.) by the Contractor is prohibited, unless prior arrangements are made with the USC Project Manager.
11. For all projects over \$100,000, including IDC's, an SE-395, Contractor Performance Evaluation, will be completed by the USC Project Manager and reviewed with the GC at the beginning of the project and a copy given to the GC. At the end of the project the form will be completed and a Construction Performance rating will be established.
12. Contractor is responsible for removal of all debris from the site, and is required to provide the necessary dumpsters which will be emptied at least one times per week. Construction waste must not be placed in University dumpsters. THE CONSTRUCTION SITE MUST BE THOROUGHLY CLEANED WITH ALL TRASH PICKED UP AND PROPERLY DISPOSED OF ON A DAILY BASIS AND THE SITE MUST BE LEFT IN A SAFE AND SANITARY CONDITION EACH DAY. THE UNIVERSITY WILL INSPECT JOB SITES REGULARLY AND WILL FINE ANY CONTRACTOR FOUND TO BE IN VIOLATION OF THIS REQUIREMENT AN AMOUNT OF UP TO \$1,000 PER VIOLATION.
13. **Contractor must provide all O&M manuals, as-built drawings, and training of USC personnel on new equipment, controls, etc. prior to Substantial Completion. Final payment will not be made until this is completed.**
14. The contractor will comply with all regulations set forth by OSHA and SCDHEC. Contractor must also adhere to USC's internal policies and procedures (available by request). As requested, the contractor will submit all Safety Programs and Certificates of Insurance to the University for review.
15. Tree protection fencing is required to protect existing trees and other landscape features to be preserved within a construction area. The limits of this fence will be evaluated for each situation with the consultant, USC Arborist and USC Project Manager. The tree protection fence shall be 5' high chain link fence unless otherwise approved by USC Project Manager. No entry or materials storage will be allowed inside the tree protection zone. A 4" layer of mulch shall be placed over the tree protection area to maintain moisture in the root zone.
16. Where it is necessary to cross walks, tree root zones (i.e., under canopy) or lawns the following measures shall be taken: For single loads up to 9,000 lbs., a 3/4" minimum plywood base shall be placed over areas impacted. For single loads over 9,000 lbs., two layers of 3/4" plywood is required.
17. For projects requiring heavy loads to cross walks tree root zones or lawns. A construction entry road consisting of 10' X 16' oak logging mates on 12" coarse, chipped, hardwood base. Mulch and logging mats shall be supplemented throughout the project to keep

Updated: July 15, 2011

matting structurally functional.

18. Any damage to existing landscaping (including lawn areas) will be remediated before final payment is made.
19. Orange safety fence to be provided by the contractor. (USC Arborist, Kevin Curtis may be contacted at 777-0033 or 315-0319)

Campus Vehicle Expectations

1. All motorized vehicles on the University campus are expected to travel and park on roadways and/or in parking stalls.
2. All motorized vehicle traffic on USC walkways must first receive the Landscape Manager=s authorization. Violators may be subject to fines and penalties.
3. All motorized vehicles that leak or drip liquids are prohibited from traveling or parking on walks or landscaped areas.
4. Contractors, vendors, and delivery personnel are required to obtain prior parking authorization before parking in a designated space. Violators may be subject to fines and/or penalties. See Item 10 below.
5. Drivers of equipment or motor vehicles that damage university hardscape or landscape will be held personally responsible for damages and restoration expense.
6. Vehicle drivers who park on landscape or drives must be able to produce written evidence of need or emergency requiring parking on same.
7. All vehicles parked on landscape, hardscape, or in the process of service delivery, must display adequate safety devices, i.e. flashing lights, cones, signage, etc.
8. All drivers of equipment and vehicles will be respectful of University landscape, equipment, structures, fixtures and signage.
9. All incidents of property damage will be reported to Parking Services or the Work Management Center.
10. Parking on campus is restricted to spaces designated by Parking Services at the beginning of the project. Once the project manager and contractor agree on how many spaces are needed, the project manager will obtain a placard for each vehicle. This placard must be hung from the mirror of the vehicle, otherwise a ticket will be issued and these tickets cannot be “fixed”. Parking spaces are restricted to work vehicles only; no personal vehicles.

Project Name: USC Baruch –Repair/Replace HVAC Units
Project Number: CP00373307

University of South Carolina

CONTRACTOR'S ONE YEAR GUARANTEE

STATE OF _____

COUNTY OF _____

WE _____
as Contractor on the above-named project, do hereby guarantee that all work executed under the requirements of the Contract Documents shall be free from defects due to faulty materials and /or workmanship for a period of one (1) year from date of acceptance of the work by the Owner and/or Architect/Engineer; and hereby agree to remedy defects due to faulty materials and/or workmanship, and pay for any damage resulting wherefrom, at no cost to the Owner, provided; however, that the following are excluded from this guarantee;

Defects or failures resulting from abuse by Owner.

Damage caused by fire, tornado, hail, hurricane, acts of God, wars, riots, or civil commotion.

[Name of Contracting Firm]

*By _____

Title _____

*Must be executed by an office of the Contracting Firm.

SWORN TO before me this
_____ day of _____, 2____ (seal)

_____ State

My commission expires _____

University of South Carolina

Belle W. Baruch Marine Field Laboratory

Georgetown, SC

H27-Z091 / CP00373307

**Furnish and Install Two 10 Ton Rooftop Commercial
Heat Pump Package HVAC Units**

General Description – The University of South Carolina is accepting bids for the removal of two (2) existing 10-ton rooftop Air Conditioning Systems; and the installation of two (2) new 10-ton self-contained heat pump package rooftop HVAC units at the Belle W. Baruch Marine Field Laboratory on Hobcaw Barony in Georgetown, South Carolina. The current systems to be removed are two (2) 10 ton TRANE heat pump rooftop package units (System HP #2) and (System HP #6). The new heat pump systems must be rooftop mounted systems providing equal or greater service. See pictures below of current rooftop systems. The Contractor will be responsible for the following:

Removal:

- Two (2) existing 10 ton TRANE heat pump rooftop package units. Crane will be required for removal and installation.

Disconnection:

- Disconnect both units from existing power supply and existing duct work

Furnish and Install the following HVAC Systems:

- Two (2) 10-ton, 460V 3phase commercial roof-mounted heat pump package units with R410A refrigerant, new electric supplemental heat, 0-50% outside air damper. Connect to existing electrical service and ductwork.

- New matching curb adapter if needed
- Include installation of two lockable programmable thermostats.
- Connect to and test existing electronic smoke detection system in the air return ductworks for fire code compliance. Smoke detection systems **must shut entire HVAC system down** in the event smoke is detected.
- Include new condensate drain network to positively drain on existing roof system into roof scuppers.
- Include all labor, materials and equipment necessary to remove the existing systems, and install the new systems for complete start-up operation. Heavy equipment may be needed to remove existing units and install new units. Any cost associated with leasing, or renting equipment to include any cost associated with the licensed operator must be included within bid.
- Should a crane be used, the operator must be properly licensed and the crane must have all necessary documents to include recent load test in order to be used on government property.
- Include a one-year labor and parts service warranty.
- Include 5-year Manufacturer's compressor warranty on factory (parts only) in bid.
- Installation to be completed no later than one month after project awarded.
- The system must **meet or exceed** the manufacturer's cooling, heating, and ARI Sound Rating performance data as provided below.
- Units shall be equipped with corrosion resistant outside coil material or coils coated with factory applied anti-corrosive coating. Corrosion resistance must meet or exceed ASTM B117.85 standards. This is required by Santee Cooper for units located within ½ mile of ocean front.
- **Failure to include the system manufacturer's unit specification data sheet with bid will disqualify the bid altogether. The unit specifications shall include gross cooling capacity, EER, IEER, and COP ratings.**
- Contractor must provide three references on projects completed of similar complexity and magnitude.

- Contractor must possess all requisite certifications, licenses, and insurance to perform the work.
- The entire membrane roof system was replaced in July of this year and must not be damaged in any way.
- Contractor is responsible for any and all damages to sidewalks, building, roof, landscaping, etc. as a result of negligence.

Contractor is responsible for submitting all necessary paperwork to apply for utility rebates through the local Santee Cooper Office. This will include completing the manufacturers commissioning form or start-up form for each unit at the time of installation. Contractor responsible for contacting a Santee Cooper Trade Ally to give detailed instructions on rebates. Estimated rebates shown to be \$10-\$250/ per ton. All rebates to be rewarded back to the owner. See attached Santee Cooper contact information and Program Manual for more details along with link below.

Byron B. Colvis, PE

Santee Cooper – Commercial Energy Services

843-651-1598 ext. 3812

Fax: 843-651-7889

bbcolvis@santeecooper.com

<https://www.santeecooper.com/business/reduce-the-use-amp;-save/rebates-and-benefits.aspx>

Minimum System Specification Requirements:

NOTE: THE PROPOSED UNITS MUST MEET OR EXCEED THE MINIMUM SPECIFICATIONS OF THE EXISTING UNITS. SHOULD ANY INFORMATION CONTAINED IN THIS DOCUMENT CONFLICT WITH THE EXISTING UNITS SPECIFICATIONS THE CONTRACTOR HAS THE RESPONSIBILITY TO MEET OR EXCEED THE PERFORMANCE SPECIFICATIONS OF THE EXISTING UNITS.

Cooling Performance¹:

- Gross Cooling Capacity: 121,000
- COP/EER²: 10.1
- Nominal Airflow/ARI Rated Airflow (CFM): 4,000/3,200
- ARI Net Cooling Capacity: 113,000
- Integrated energy efficiency Ratio (IEER)³: 10.7
- System Power (kW) 11.19

Heating Performance¹:

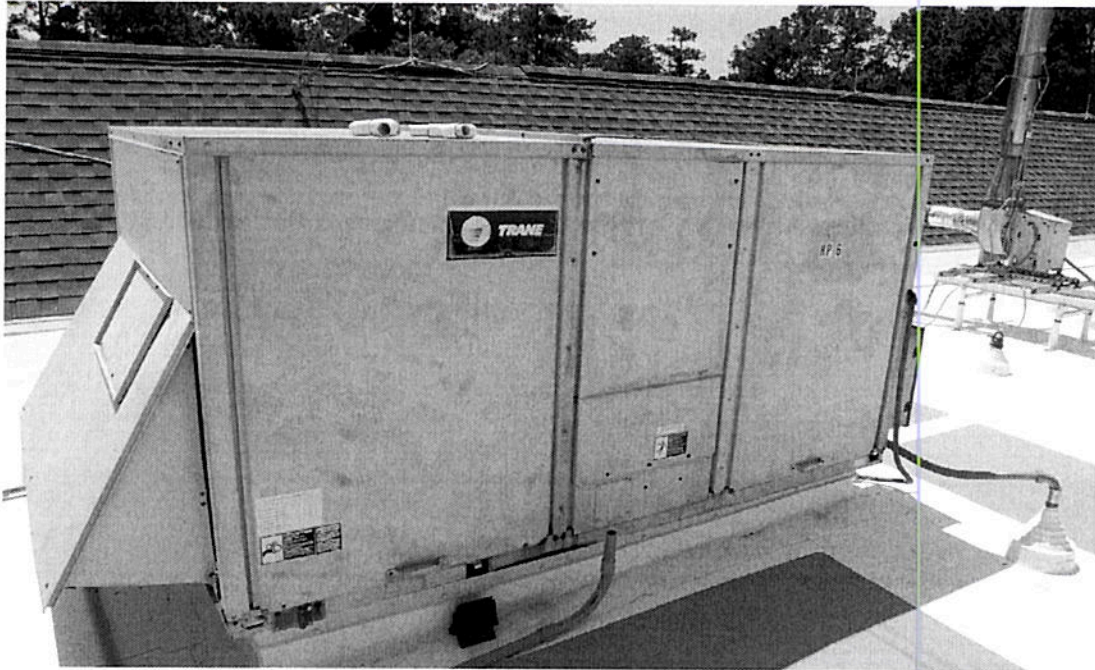
- High Temp. Btu Rating: 108,000
- COP: 3.3
- System Power (kW) 9.59
- Low Temp. Btu Rating: 59,000
- COP: 2.2
- System Power (kW) 7.86

ARI Sound Rating (dB)³ : 88

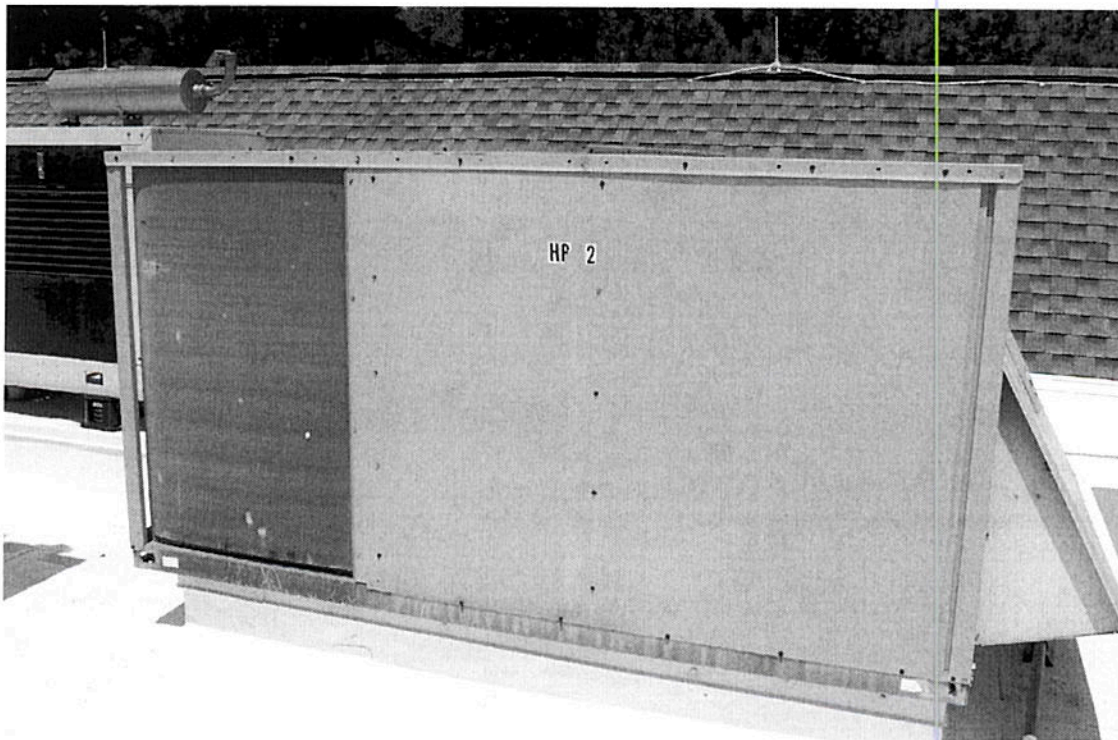
Note:

- 1) EER is rated at ARI conditions and in accordance with DOE test procedures.
- 2) Integrated Energy Efficiency Ratio (IEER) rating in accordance with AHRI standard 210/240 or 360.
- 3) Sound Rating should be in accordance with ARI Standard 270 or 370.

Any contractors requesting to make a site visit may contact Paul Kenny at (843) 904-9028.



Existing 10 Ton HP #6 to be replaced



Existing 10 Ton HP #2 to be replaced



Aerial view of existing units within mechanical well of marine lab. Notice new membrane roof system.