INVITATION

Sealed proposals for the following work will be received by the University of Kentucky, Capital Construction Procurement Section, Room #322 Peterson Service Building, 411 South Limestone, Lexington, Kentucky 40506-0005, in the manner and on the date hereinafter specified for the furnishing of all labor, materials, supplies, tools, appliances, equipment, services, etc., necessary for the construction of the Process Modification of the Small Pilot CO₂ Capture Pilot Plant—Mechanical Services for the CO₂ Capture Pilot Plant System at the E. W. Brown Generating Station located at 815 Dix Dam Road, Harrodsburg, Kentucky 40330 as set forth in the specifications and as shown on the drawings and under the terms and conditions of this Invitation.

This Bid Package involves the installation work for the CO₂ Capture Process Modification. The work will be performed under contract with the Center for Applied Energy Research (UK CAER).

TC-01 Mechanical

In addition, due to the confidentiality of this research project, Specifications and Drawings will be issued after the Pre Bid Meeting and upon receipt of the signed Confidential Disclosure Agreement. (Attached)

PROJECT DESCRIPTION

Procurement and installation of structural reinforcements and modification; installation of membrane separation unit; installation of vacuum pump skid; installation of knock out pot/condenser skid; installation of blower; installation of solvent recovery column; installation of solvent recovery column heat exchanger and bottoms pump; installation of filter; modification to existing column, procurement and installation of associated piping systems, installation of instrumentation; installation of control valves and procurement and installation of associated air tubing. Note that these systems connect into the existing CO₂ capture system with an additional power feed required from the LG&E power plant system.

The Contractor shall recognize that E. W. Brown Generating Station is an active power generation facility of Kentucky Utilities Company (“KU”) and careful coordination will have to be taken with the Site Manager to prevent any unforeseen disturbances to KU employees and minimize the impact on daily operations of the facility. Some documents referenced herein have been issued by KU’s affiliate LG&E and KU Services Company (“LG&E and KU Services”). The Contractor must comply with all E. W. Brown Generating Station protocols and access demands as provided by the Site Manager at E. W. Brown Generating Station. Please refer to the LG&E and KU Services Site Requirements, included, which are incorporated herein and will become an integral part of the final agreement:

The successful bidder will enter into an agreement with The University of Kentucky. The form of contract is included with the bid documents and will be executed without exceptions. If not already in place, the successful bidder shall enter into a Temporary Site Access Agreement and General Release with LG&E and KU, included, as a condition of accessing E W Brown Generating Station.

Background Information

In a project primarily funded by the United States Department of Energy National Energy Technology Laboratory, the University of Kentucky Center for Applied Energy Research has designed, constructed and in operating a modular 0.7 MWe slipstream scale CO₂ capture system. The overall project objectives are to provide scale-up data and design information with the ultimate goal of developing a commercial-scale unit.
The CO₂ capture process has been designed and assembled in 6 modules. This Invitation for Bid is to select the TC-01 - Mechanical Contractor to be responsible for all structural and mechanical aspects of construction related to the installation of a modification to CO₂ capture process modules at E.W. Brown Generating Station in Harrodsburg, KY.


3. METHOD OF RECEIVING BIDS

Bids will be received from Prime Contractors on a Lump Sum Amount for the total project. All phases of the work shall be bid to and through the Prime Contractors. Bids shall be submitted in the manner herein described and on the official proposal form included with the conditions and specifications and shall be subject to all the conditions as set forth and described in the Bid Documents.

Bids shall be submitted only on the Official Forms supplied by the University of Kentucky, Capital Construction Procurement Section. Failure to comply with the foregoing requirements will be cause for invalidation of bid.

4. METHOD OF AWARD

Final award of Contract will be made on the basis of the lowest, responsive and responsible bid which offers the best value.

5. SCHEDULE OF PROJECT

The time for Substantial Completion (as further defined in Article 1 of the General Conditions) for the project shall be as follows:

All structural and mechanical work pertaining to the membrane separation system and solvent recovery system shall be completed in twelve (12) consecutive calendar weeks from the date of commencement as specified in the Purchase Order letter and Final Completion shall be 1 week thereafter.

6. BONDING

All bids shall be accompanied by a bid guarantee of not less than five (5%) percent of the amount of the base bid. A 100% Performance Bond and 100% Payment Bond shall be furnished by the successful bidder. All bonding and insurance requirements are contained in the Instruction to Bidders, General Conditions and Special Conditions.

7. OBTAINING PLANS AND SPECIFICATIONS

Upon receipt of signed non-disclosure agreement, all official bid documents will be provided in electronic format by the University of Kentucky, Capital Construction Procurement Division:

University of Kentucky
Attn: Suellen Bowling/ Mike Mudd
214 Peterson Service Bldg.
Lexington Kentucky 40506
Phone (859) 257-5471
Email: sbowlin@uky.edu
Mikemudd2@uky.edu
8. **BID SUBMITTAL**

Contractors must submit their bid in a sealed envelope in Room #322 Peterson Service Building, Lexington, Kentucky 40506-0005 and the envelope must contain the following information on the outside lower left-hand corner:

**SEALED BID INVITATION NO.**  **CCK-2374-19**

**BID DATE:**  **December 18, 2018 at 3:00 P.M. LEXINGTON, KY TIME**

Bids, upon their receipt by the University of Kentucky, Capital Construction Procurement Section are stamped showing the hour and date received. Bids received after the scheduled closing time for reception of bids will not be considered provided legal and accepted bids have been received on said referenced Invitation.

9. **BID WITHDRAWAL**

No bidder may withdraw his bid for a period of sixty (60) days after the date set for the opening of bids. Clerical errors and omissions in the computation of the lump sum shall not be cause for withdrawal of the bid without forfeiture of bid bond. Bids may be withdrawn in person only, prior to the closing date for receipt of bids.

10. **MINORITY BUSINESS ENTERPRISE PARTICIPATION**

The University of Kentucky is committed to increasing the participation of minority business enterprises in construction and renovation projects, and encourages the use of minority subcontractors and material suppliers. All contractors should make an effort to locate and use minority business enterprises in bidding this project. For assistance in identifying minority vendors and subcontractors, the contractors may contact: The Kentucky Procurement Assistance Program, 500 Mero Street, 23rd Floor, Frankfort, Kentucky 40601,(800-838-3266) email address CED.kpap@ky.gov, and/or The Office of Business & Occupational Development, Transportation Cabinet, 200 Mero Street, Suite 614, Frankfort, Ky. 40622, (502-564-3601) Attn: Mr. Melvin Bynes, email address Melvin.Bynes2@ky.gov

Bidders using minority enterprises as subcontractors and material suppliers are requested to identify these contractors in the space provided on the Form of Proposal. The successful contractor will be asked to supply associated contract amounts rounded to the nearest $500.00 prior to the signing of a contract.

11. **RIGHT TO REJECT**

The University of Kentucky, Capital Construction Procurement Section, reserves the right to reject any and all bids and to waive all formalities and/or technicalities where the best interest of the University may be served.

12. **GENERAL INFORMATION**

A. The Listing of major subcontractors, unit prices, material lists, hourly rates (regular and overtime), and crane rental rates are to be submitted with the bid.
B. Only those Prime Contractors who have signed and submitted the Confidential Disclosure Agreement will be able to obtain detailed specifications and drawings and will be eligible to submit a bid for this project. Bid Documents can be obtained from directly from the University of Kentucky Purchasing Representative.

13. Pre-Bid Conference

A Pre-Bid Conference will be scheduled on November 28, 2018 at 2PM on the site at E.W. Brown Generating Station located at 815 Dix Dam Road, Harrodsburg, KY 40330.

E W Brown Website: https://lge-ku.com/our-company/community/neighbor-neighbor/ew-brown-generating-station

For Directions: https://www.google.com/maps/dir/38.0461056,-84.5062144/ew+brown+generating+station/@37.9181597,-84.7663716,11z/data=!3m1!4b1!4m9!4m8!1m1!4e1!1m5!1m1!1s0x8842892350c29433:0x63c4c1a8ac4f665b12m21d-84.7136606!2d37.7884044

14. WRITTEN QUESTIONS

Anyone wishing to discuss specific items is requested to submit the terms in writing to Mike Mudd and Suellen Bowling Capital Construction Procurement, no later than December 6, 2018. Written questions can be submitted by email to MikeMudd2@uky.edu and sbowlin@uky.edu.

15. SUBSTITUTION - MATERIALS AND EQUIPMENT

Bidders wishing to submit a request for consideration of an alternate under the provisions of Article 48.3 of the General Conditions to the Contract to any article, device, equipment, product, material, fixture, patented process, form, method or type of construction, or by name, make, trade name, or catalog number shall submit a written request to the University at least 14 calendar days prior to the official bid date of the Project including all necessary information and sufficient detail to allow evaluation by the Consultant and the University and, if the University determines the alternate is acceptable, an addendum will be issued allowing the change and advising all bidders of the option.

If no addendum is issued to allow the requested change, the Bidder shall assume the request is not approved and shall prepare the bid on that basis.

16. POST BID MEETING

The apparent low bidder will be requested to meet with the Project Manager to review the bid and scope of services. The time and place of this meeting will be announced at the bid opening.

Signed: ______________________________

Mike Mudd
Contracting Officer

A Complete list of these and other projects that are out for bid may be viewed on the World Wide Web at the following URL: http://www.uky.edu/Purchasing/