The attached document entitled "Instructions for Bid Submissions" is incorporated into and forms a part of this Invitation to Bid.

Bidder Agrees to Comply with All Conditions Shown on this Form and Attached Terms and Conditions.

FAILURE TO MANUALLY SIGN MAY DISQUALIFY BID.

Federally Certified Small/Small Disadvantaged Businesses
Bidder will list all certifications under any federally recognized business program:

<table>
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<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
<th>UNIT</th>
<th>UNIT PRICE</th>
<th>EXTENSION</th>
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</table>
The University of Texas prefers to email purchase orders directly to vendors. If you are able to accept a purchase order by email, please note the appropriate email address below:

_____________________________@_____________________________
____________________________________________________________

TO DOWNLOAD THE COMPLETE BID PACKET, INCLUDING THE 1) UNIVERSITY BID FORM, AND 2) SECTION 409140 - CEMS MONITORING EQUIPMENT SPECIFICATION, GO TO THE TEXAS COMPTROLLER OF PUBLIC ACCOUNTS ELECTRONIC STATE BUSINESS DAILY ("ESBD"), AT:

HTTP://WWW.TXSMARTBUY.COM/SP
UNDER "SOLICITATION ID NUMBER," TYPE: 01902343-MPCFM THEN CLICK "SEARCH".

THE INDIVIDUAL LISTED BELOW MAY BE CONTACTED FOR CLARIFICATION OF THE SPECIFICATIONS. BIDDERS SHOULD DIRECT ALL QUESTIONS, IN WRITING, TO THE FOLLOWING UT AUSTIN PURCHASING OFFICE CONTACT:

CELINA MERCADO
C.MERCADO@AUSTIN.UTEXAS.EDU

BID RESPONSES MAY BE MAILED OR HAND DELIVERED TO THE UT AUSTIN PURCHASING OFFICE. INDICATE THE ITB NUMBER

1616 GUADALUPE ST.
UTA BUILDING, SUITE 3.302
AUSTIN, TX 78701

NOTE: FAXED OR EMAILED BIDS WILL NOT BE ACCEPTED

THE UNIVERSITY OF TEXAS AT AUSTIN ("UNIVERSITY") ON BEHALF OF UTILITIES, ENERGY, AND FACILITIES MANAGEMENT ("UTILITIES") REQUESTS BIDS IN RESPONSE TO THIS INVITATION TO BID NO. 01902343-MPCFM ("ITB") FROM QUALIFIED AND EXPERIENCED VENDORS ("BIDDER") TO PROVIDE NEW CONTINUOUS EMISSIONS MONITORING ("CEM") COMPONENTS INCLUDING THREE (3) NEW WALL MOUNTED EMISSIONS ANALYZERS AND ASSOCIATED EQUIPMENT FOR ONE (1) SOURCE, CTG-10 ("SERVICES").

*DEFINITIONS AND TERMS*
- OWNER: OWNER IS DEFINED AS THE UTILITIES, ENERGY, AND FACILITIES MANAGEMENT DEPARTMENT AT THE UNIVERSITY OF TEXAS AT AUSTIN
- CONTRACTOR: CONTRACTOR IS DEFINED AS THE SUCCESSFUL BIDDER

*REFERENCE DOCUMENTS*
- DIVISION 1 LINK:
  HTTPS://PMCSERVICES.UTEXAS.EDU/DCS-DIVISION-01-GENERAL-REQUIREMENTS
- DIVISION 26 LINK:
  HTTPS://PMCSERVICES.UTEXAS.EDU/DCS-DIVISION-26-ELECTRICAL

BIDDERS TO PROVIDE PRICING FOR THE FOLLOWING LINE ITEMS. UNIVERSITY RESERVES THE RIGHT TO SELECT THE OPTIONAL SERVICES IN LINE ITEMS #4, 7, 8 & 9. OPTIONAL SERVICES MAY OR MAY NOT BE UTILIZED BY UNIVERSITY.
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>1</td>
<td>CEMS MONITORING EQUIPMENT NEW CONTINUOUS EMISSIONS MONITORING (CEMS) COMPONENTS INCLUDING THREE (3) NEW WALL MOUNTED EMISSIONS ANALYZERS AND ASSOCIATED EQUIPMENT FOR ONE (1) SOURCE, CTG-10, PER SECTION 409140 - CEMS MONITORING EQUIPMENT SPECIFICATION.</td>
<td>1</td>
<td>Lot</td>
<td></td>
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<tr>
<td>2</td>
<td>INSTALLATION</td>
<td>1</td>
<td>Job</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>INITIAL STARTUP AND TESTING</td>
<td>1</td>
<td>Job</td>
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</table>
| 4    | 285-09/423600 OPTIONAL - INITIAL TESTING OF THE SYSTEM INCLUDING:  
- ONE (1) RELATIVE ACCURACY TEST AUDIT (RATA)  
- ONE (1) CERTIFIED GAS AUDIT (CGA) OF THE CEMS | 1        | Job  |            |           |
| 5    | DELIVERY, STORAGE, AND HANDLING                                                                                                                                                                           | 1        | Lot  |            |           |
| 6    | ON-SITE ONE (1) DAY CLASSROOM TRAINING                                                                                                                                                                     | 1        | Days |            |           |
| 7    | 3 OPTIONAl - DOCUMENTATION FOR A MONITORING PLAN DESCRIBING THE CEMS.                                                                                                                                     | 1        | Lot  |            |           |
| 8    | 3 OPTIONAl - ONE (1) ANNUAL, PREVENTATIVE MAINTENANCE SERVICES SITE VISIT FOR INSPECTION OF CEM SYSTEMS                                                                                                     | 1        | Year |            |           |
| 9    | 3 OPTIONAl - CERTIFICATION, PERFORMANCE TESTING, AND TESTING REPORTS                                                                                                                                        | 1        | Lot  |            |           |
| 10   | BID SUBMITTAL CHECKLIST                                                                                                                                                                                  | 1        | Scope-n/c |          |           |

Each bidder must submit the following with their bid:

A. Signed and completed University Bid Invitation Form

The following required information must be submitted as specified in the attached "SECTION 409140 - CEMS MONITORING EQUIPMENT SPECIFICATION" and per Division 1.

B. Enclosure and Equipment Shop Drawings.

C. Product data for each major CEM system component or material with complete descriptive literature (i.e., catalog cut). Along with this include:
   1. Space requirements for all components and a recommended layout and configuration for installation.
   2. Requirements for lightning and surge protection of equipment and components.

D. Design data, test reports, certifications, and manufacturers instruction manuals.

E. Documents for operation, maintenance and repair including instruction books with the following:
   1. Equipment description.
   3. Procedures for normal operation.
   4. Troubleshooting.
   5. Critical alarm list.
   6. CEMS manufacturer's recommended quality assurance procedures at daily, monthly, quarterly, semiannual, and annual intervals, including:

(continued)
<table>
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<tbody>
<tr>
<td>A.</td>
<td>RECOMMENDATIONS FROM MANUFACTURERS OF INDIVIDUAL COMPONENTS.</td>
</tr>
<tr>
<td>B.</td>
<td>CEMS ROUTINE AND PREVENTIVE MAINTENANCE PROCEDURES.</td>
</tr>
<tr>
<td>C.</td>
<td>AN ABBREVIATED SUMMARY OF ALL QA PROCEDURES.</td>
</tr>
<tr>
<td>7.</td>
<td>MANUFACTURERS OPERATING AND MAINTENANCE INSTRUCTIONS FOR THE SYSTEM CONTROLLER, DATA ACQUISITION, DATA REDUCTION, AND DATA STORAGE INTEGRATION WITH EXISTING OWNER SYSTEM.</td>
</tr>
<tr>
<td>8.</td>
<td>ELECTRICAL DRAWINGS AND INSTALLATION DETAILS SHOWING THE MANUFACTURER’S GROUNDING AND LIGHTNING PROTECTION REQUIREMENTS FOR ALL ELECTRICAL DEVICES LOCATED ON THE STACK.</td>
</tr>
<tr>
<td>F.</td>
<td>LAYOUT OF ANALYZER CABINET(S) SHOWING DIMENSIONS AND COMPONENT ARRANGEMENT.</td>
</tr>
<tr>
<td>G.</td>
<td>NUMBER AND TYPE OF ELECTRICAL SIGNAL AND POWER CABLES ENTERING OR LEAVING THE ANALYZER CABINET(S).</td>
</tr>
<tr>
<td>H.</td>
<td>CABINET SCHEMATICS AND CONNECTION DIAGRAMS SHOWING ELECTRICAL SIGNAL, COMMUNICATIONS, AND POWER WIRING FOR ALL FIELD LOCATED COMPONENTS INCLUDING PLANT-SUPPLIED POWER AND SIGNALS. INDICATE WHERE WIRING IS SUPPLIED BY OTHERS.</td>
</tr>
<tr>
<td>I.</td>
<td>DETAILED LIST OF PLANT INTERFACES SHOWING QUANTITY OR CAPACITY REQUIRED BY THE INTERFACING COMPONENT. THIS MUST INCLUDE ITEMS SUCH AS: 1. ELECTRICAL POWER REQUIREMENTS. 2. COMPRESSED AIR REQUIREMENTS. 3. ZERO AIR REQUIREMENTS.</td>
</tr>
<tr>
<td>J.</td>
<td>DETAILED INSTALLATION INSTRUCTIONS FOR ITEMS NOT INSTALLED IN ANALYZER CABINET.</td>
</tr>
</tbody>
</table>

285-09/423600

11 BID SUBMITTAL CHECKLIST CONT. 1 Scope-n/c

K. MANUFACTURER'S SPECIFICATIONS AND INSTALLATION INSTRUCTIONS FOR SAMPLE TUBING BUNDLE.

L. COMPLETE DESCRIPTION OF BOTTLED GAS REQUIREMENTS, IF REQUIRED. LIST THE NUMBER OF SIZE "AL" BOTTLES REQUIRED FOR THE CEM SYSTEM IN ORDER TO MEET THE DAILY AND QUARTERLY TEST REQUIREMENTS OF THE UNIT AIR PERMIT, BOTH ROUTINE AND CERTIFICATION. INCLUDE GAS TYPES, CONCENTRATIONS, AND QUALITY AS APPLICABLE. PROVIDE EXPLANATION OF REQUIREMENTS INCLUDING CALCULATIONS WHERE APPLICABLE. PROVIDE INSTRUCTION FOR INITIAL CALIBRATION PROCESS IF APPLICABLE.

M. LIST OF INPUTS REQUIRED FROM THE PLANT FOR THE SYSTEM TO SUPPORT THE DAHS FUNCTIONAL REQUIREMENTS OF THIS SPECIFICATION AND THE UNIT AIR PERMIT.

N. LIST OF RECOMMENDED SPARE PARTS AND CONSUMABLES.

O. WARRANTIES AND GUARANTEE ON EQUIPMENT FURNISHED.

P. FACTORY ACCEPTANCE TEST FOR OWNERS REVIEW.

FAILURE TO SUBMIT THE ITEMS LISTED BELOW MAY RESULT IN DISQUALIFICATION OF THE VENDOR'S BID.

(CONTINUED)
THIS ITB MAY BE CANCELLED IF IT IS IN THE BEST INTEREST OF THE UNIVERSITY.
INSTRUCTIONS FOR BID SUBMISSIONS

All bid responses must be submitted, in person or by carrier, to the following address:
The University of Texas at Austin - Purchasing Office
1616 Guadalupe St.
UTA Building, Suite 3.302
Austin, TX  78701

Vendors hand delivering a response can find information about parking options at
The Purchasing Office is located on the third floor of the University Administration Building (UTA), Suite 3.302.
Enterance to the garage is on 17th Street.

Bid Terms and Conditions are online at: https://utexas.app.box.com/v/bid-terms