



**BIDS AND AWARDS COMMITTEE FOR  
 GOODS, SUPPLIES, AND SERVICES**

July 27, 2018

**Bid Bulletin No. 1  
 Modifications in the Invitation to Bid, Bid Data Sheet, Schedule of Requirements and  
 Technical Specifications**

This Bid Bulletin is issued to modify or amend items in the Bidding Documents for the **“Procurement of Laboratory Equipment for the College of Engineering (Mechanical Engineering)”** with Reference No. **G-2018-14**, and shall form an integral part thereof, to wit:

**I. Invitation to Bid**

Item no.	FROM	TO																
1.	The Bulacan State University (BulSU), through the Income Fund 2018 intends to apply the sum of Nine Million Eight Hundred Seventy Four Thousand Pesos Only (₱ 9,874,000.00) being the Approved Budget for the Contract (ABC) to payments under the contract for Procurement of Laboratory Equipment for the College of Engineering (Mechanical Engineering) (G-2018-14). Bids received in excess of the ABC shall be automatically rejected at bid opening.	<p>The Bulacan State University (BulSU), through the Income Fund 2018 intends to apply the sum of Nine Million Eight Hundred Seventy Four Thousand Pesos Only (₱ 9,874,000.00) being the Approved Budget for the Contract (ABC) to payments under the contract for Procurement of Laboratory Equipment for the College of Engineering (Mechanical Engineering) (G-2018-14). Bids received in excess of the ABC shall be automatically rejected at bid opening.</p> <p><b><u>Basis of Evaluation:</u></b></p> <p><b><u>Partial bids or line item bids</u></b></p> <table border="1"> <thead> <tr> <th align="center">Item no.</th> <th align="center">Description</th> <th align="center">Qty/ Unit</th> <th align="center">Unit Price</th> </tr> </thead> <tbody> <tr> <td align="center">1</td> <td>HVAC/R Training System</td> <td align="center">1 set</td> <td align="right">₱2,837,000</td> </tr> <tr> <td align="center">2</td> <td>Diesel and Gasoline Engine Performance Test Bed</td> <td align="center">1 set</td> <td align="right">₱5,209,000</td> </tr> <tr> <td align="center">3</td> <td>Pump System Trainer</td> <td align="center">1 set</td> <td align="right">₱1,828,000</td> </tr> </tbody> </table>	Item no.	Description	Qty/ Unit	Unit Price	1	HVAC/R Training System	1 set	₱2,837,000	2	Diesel and Gasoline Engine Performance Test Bed	1 set	₱5,209,000	3	Pump System Trainer	1 set	₱1,828,000
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**II. Bid Data Sheet**

<b>ITB Clause</b>	<b>FROM</b>	<b>TO</b>																
1.2	The lot and reference is: Procurement of Laboratory Equipment for the College of Engineering (Mechanical Engineering) (G-2018-14)	<p><b><u>Basis of Evaluation:</u></b></p> <p><b><u>Partial bids or line item bids</u></b></p> <table border="1" data-bbox="803 436 1396 817"> <thead> <tr> <th>Item no.</th> <th>Description</th> <th>Qty./ Unit</th> <th>Unit Price</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HVAC/R Training System</td> <td>1 set</td> <td>₱2,837,000</td> </tr> <tr> <td>2</td> <td>Diesel and Gasoline Engine Performance Test Bed</td> <td>1 set</td> <td>₱5,209,000</td> </tr> <tr> <td>3</td> <td>Pump System Trainer</td> <td>1 set</td> <td>₱1,828,000</td> </tr> </tbody> </table>	Item no.	Description	Qty./ Unit	Unit Price	1	HVAC/R Training System	1 set	₱2,837,000	2	Diesel and Gasoline Engine Performance Test Bed	1 set	₱5,209,000	3	Pump System Trainer	1 set	₱1,828,000
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12.1(b)(v)	<p>Additional Documents to be included in the Technical Component:</p> <p>1. Manufacturer's Authorization Form or Certificate as Authorized Distributor/Reseller or Certificate of Registration as Manufacturer/Fabricator;</p> <p>2. Brochure, catalogues, clear copy of print-outs of items being offered (if downloaded);</p> <p>3. Warranty Certificate</p>	<p>Additional Documents to be included in the Technical Component:</p> <p>1. Manufacturer's Authorization Form or Certificate as Authorized Distributor/Reseller or Certificate of Registration as Manufacturer/Fabricator;</p> <p>2. Brochure, catalogues, clear copy of print-outs of items being offered (if downloaded);</p> <p>3. Warranty Certificate</p> <p><b><u>4. (Additional Entry) Very Satisfactory performance rating from the concerned end-user unit (for previous supplier of BulSU)</u></b></p>																
28.3 (a)	<p>Grouping and Evaluation of Lots –</p> <p>Partial bid is not allowed. The goods are grouped in a single lot and the lot shall not be divided into sub-lots for the purpose of bidding, evaluation, and contract award.</p>	<p><b><u>Grouping and Evaluation of Lots-</u></b></p> <p><b><u>Partial bids are allowed. Bidders shall have the option of submitting a proposal on any or all items and evaluation and contract award will be undertaken on a per item basis.</u></b></p> <table border="1" data-bbox="803 1713 1396 2083"> <thead> <tr> <th>Item no.</th> <th>Description</th> <th>Qty./ Unit</th> <th>Unit Price</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>HVAC/R Training System</td> <td>1 set</td> <td>₱2,837,000</td> </tr> <tr> <td>2</td> <td>Diesel and Gasoline Engine Performance Test Bed</td> <td>1 set</td> <td>₱5,209,000</td> </tr> <tr> <td>3</td> <td>Pump System Trainer</td> <td>1 set</td> <td>₱1,828,000</td> </tr> </tbody> </table>	Item no.	Description	Qty./ Unit	Unit Price	1	HVAC/R Training System	1 set	₱2,837,000	2	Diesel and Gasoline Engine Performance Test Bed	1 set	₱5,209,000	3	Pump System Trainer	1 set	₱1,828,000
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In all cases, the NFCC computation, if applicable, must be sufficient for all the items or contracts to be awarded to the bidder.

### III. Schedule of Requirements

	FROM	TO
	Sixty (60) Calendar days upon receipt of Notice to Proceed	<u>One Hundred Twenty (120)</u> Calendar days upon receipt of Notice to Proceed

### IV. Technical Specifications



Item No.	FROM	TO
1	<p>HVAC/R Training System</p> <p>Description: HVAC/R training system deal with the installation, commissioning, maintenance, fault finding and repair of refrigeration systems which transfer heat by means of the vapor and compression refrigeration cycle: e.g. refrigeration systems as applied to cool rooms, freezer rooms, air-conditioning systems, liquid coolers and heat pumps. Systems must operate on a commonly used HFC refrigerant or commonly used natural refrigerant.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>a) Compact design allows the trainer to be mounted on a table or bench</li> <li>b) Cooling chamber with clear acrylic door enclosing a forced air evaporator</li> <li>c) Commercial condensing unit using R134a refrigerant</li> <li>d) Thermostatic expansion valve and two capillary tubes of differing lengths to compare the coefficients of performance obtained with different metering devices</li> <li>e) Capillary tube metering devices</li> <li>f) Electronic Pressure control with LCD display</li> <li>g) Thermostatic Control – Pressure control</li> <li>h) Heat load simulation</li> <li>i) Seven thermocouple transducers and three pressure transducers used to acquire data at the critical points of the system</li> <li>j) Conditioning of the compressor voltage and current</li> <li>k) Lockable fault insertion switch</li> </ul>	<p>HVAC/R Training System</p> <p>Description: HVAC/R training system deal with the installation, commissioning, maintenance, fault finding and repair of refrigeration systems which transfer heat by means of the vapor and compression refrigeration cycle: e.g. refrigeration systems as applied to cool rooms, freezer rooms, air-conditioning systems, liquid coolers and heat pumps. Systems must operate on a commonly used HFC refrigerant or commonly used natural refrigerant.</p> <p>Features:</p> <ul style="list-style-type: none"> <li>a) Compact design allows the trainer to be mounted on a table or bench</li> <li>b) Cooling chamber with clear acrylic door enclosing a forced air evaporator</li> <li>c) Commercial condensing unit using R134a refrigerant</li> <li>d) Thermostatic expansion valve and two capillary tubes of differing lengths to compare the coefficients of performance obtained with different metering devices</li> <li>e) Capillary tube metering devices</li> <li>f) Electronic Pressure control with LCD display</li> <li>g) Thermostatic Control – Pressure control</li> <li>h) Heat load simulation</li> <li>i) Seven thermocouple transducers and three pressure transducers used to acquire data at the critical points of the system</li> <li>j) Conditioning of the compressor voltage and current</li> <li>k) Lockable fault insertion switch</li> <li>l) Circuit breaker and safety pressure switch</li> </ul>

<p>l) Circuit breaker and safety pressure switch  m) High-pressure safety switch with manual reset breaker  n) Integrates a powerful data acquisition system – LHVAC software – for real-time monitoring</p>	<p>m) High-pressure safety switch with manual reset breaker  n) Integrates a powerful data acquisition system – LHVAC software <u>or equivalent</u> for real-time monitoring</p>
<p>Compliance:  a) Five (5) years warranty on all parts and services.  b) Package must include laboratory equipment manual from the manufacturer.  c) Actual equipment inspection during post qualification.  d) Free trainers training (minimum of 20 participants) at Bulacan State University or at supplier's training center.  e) Free copy of training manual (electronic and hard copy).  f) Single brand for all the training kits.  g) Supplier must have its own training facility.  h) Supplier must have capability to do servicing after manufacturer's warranty (must have its own service center).  i) Provide brochure/catalog attached to the documents.  j) Supplier must have certification from manufacturer as Authorized Distributor.  k) Must at be at least 10 years in the business of providing technical training equipment.</p>	<p>Compliance:  a) Five (5) years warranty on all parts and services.  b) Package must include laboratory equipment manual from the manufacturer.  c) Actual equipment inspection during post qualification.  d) Free trainers training (minimum of 20 participants) at Bulacan State University or at supplier's training center.  e) Free copy of training manual (electronic and hard copy).  f) Single brand <u>per training kit</u>.  g) Supplier must have its own training facility.  h) Supplier must have capability to do servicing after manufacturer's warranty.  i) Provide brochure/catalog attached to the documents.  j) Supplier must have certification from manufacturer as Authorized Distributor.  k) Must at be at least 10 years in the business of providing technical training equipment.</p>

**Notes:**

- 1. Specifications/items /descriptions in the bidding documents of Procurement of Laboratory Equipment for the College of Engineering (Mechanical Engineering) that are not mentioned above will remain as it is.**
- 2. Modified/additional entries are underlined, bold and italicized.**

This Supplemental/ Bid Bulletin no. 1 is issued this 27<sup>th</sup> day of July, 2018 for the guidance and information of all concerned.

  
**ISABELITA C. BENEDICTOS**   
Chairperson, BAC for Goods & Services