

## Event Summary - Interfacial Tension and Contact Angle (IFT) 700 Apparatus

Type	Invitation to Bid	Number	02QATAR-ITB-1714
Stage Title	-	Organization	TAMU
Currency	US Dollar	Event Status	Awarded
Work Group	TAMU-Qatar	Exported on	10/31/2019
Exported by	Patricia Winkler	For Requisition	124215675
Created Document	125309161	Estimated Value	101,524.89 USD
Payment Terms	-		

## Bid and Evaluation

Respond by Proxy	Allow	Use Panel Questionnaire	No
Sealed Bid	Yes	Auto Score	No
		Cost Analysis	No
Alternate Items	No		

## Visibility and Communication

Visible to Public Yes

### Enter a short description for this public event

*Texas A&M University at Qatar is seeking bids for INTERFACIAL TENSION and CONTACT ANGLE (IFT) 700 APPARATUS or equivalent*

## Commodity Codes

None Added

## Event Dates

Time Zone	CDT/CST - Central Standard Time (US/Central)
Released	-
Open	10/14/2019 12:00 AM CDT
Close	10/28/2019 2:00 PM CDT
Sealed Until	10/28/2019 2:00 PM
	Show Sealed Bid Open Date to Supplier
Q&A Close	10/28/2019 2:00 PM CDT

## Description

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Texas A&M University at Qatar is seeking bids for the Furnish and Installation of INTERFACIAL TENSION and CONTACT ANGLE (IFT) 700 APPARATUS on the campus located in Doha, Qatar.

### Attention Bidders:

Texas A&M, Procurement Services is transitioning to an E-commerce system for all invitation for bids and purchase orders. We are asking all vendors to take a few moments and register as one of our vendors. This will allow you to respond to our bid invitations electronically as well as view other bid opportunities.

Please visit the following website to register:

<https://bids.sciquest.com/apps/Router/PublicEvent?CustomerOrg=TAMU>

If you have any questions in reference to registrations, please contact us at 979-845-2325.

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All invitation for bid documents not submitted electronically via the AggieBid system will only be accepted via the following methods:

-Email - [tamuaggiebid@tamu.edu](mailto:tamuaggiebid@tamu.edu)

-Express Mail (FedEx, UPS, etc.)

-US Postal Service

-Hand Delivered

All invitation for bid documents not submitted electronically via the AggieBid system must be returned on our form.

As a bidder responding to this invitation upon submission of your response, regardless of the format of your submission, you and the entity you represent are agreeing to the terms and conditions presented here as well as the TAMU terms and conditions located

at <http://purchasing.tamu.edu/media/123743/bidtamu.pdf>

Physical Address:

Texas A&M University  
Procurement Services  
Agronomy Road  
College Station TX 77843-1477  
Fax - 979-845-3800

NOTE: If responding manually, please submit with your bid response a W9. This will allow us to enter your company into our bid system and include your response on the electronic tabulation.

## Stage Description

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No description available.

### 1 ★ Instructions To Supplier :

Please acknowledge that additional terms and conditions have been reviewed

#### **Prerequisite Content:**

#### **Note To Bidders**

#### **Award**

The award shall be made based on the following "Best Value Criteria". Texas A&M reserves the right to consider the following and any other factor deemed necessary to evaluate the offer and determine the "Best Value" for the University.

- Vendor's ability to meet the minimum specifications;
- Delivery requirement;
- Experience/past experience with vendor;
- The quality, availability and adaptability of equipment offered to required application.
- Warranty terms;
- Acceptance of payment terms;
- Quality of performance of previous services;
- The acquisition price.

Texas A&M University reserves the right to accept or reject any or all bids, to waive informalities and technicalities, to accept the offer considered the most advantageous to the University

Texas A&M University reserves the right to make the decision as to what system best meets the minimum specifications and which system best suits the needs of the university. Texas A&M's decision is final.

#### **Certification**

I certify that I have read and agree to the terms above.

#### **Supplier Must Also Upload a File:**

No

## Buyer Attachments

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Detailed Specifications	02Qatar-ITB-1714.docx	../Attachments/02Qatar-ITB-1714.docx
TAMU Standard Terms & Condition		<a href="http://purchasing.tamu.edu/media/123743/bidtamu.pdf">http://purchasing.tamu.edu/media/123743/bidtamu.pdf</a>

## Page 1

### Group 1

- |     |  |   |
|-----|--|---|
| 1.1 | Payment Terms - Quote 100% Net 30 Upon Receipt, Installation and Acceptance. If quoting as specified, type "Agreed" in the required field. If quoting otherwise, indicate here-in.<br>Text (Single Line)   | ★ |
| 1.2 | Delivery Terms: Quote delivery time, upon receipt of each order<br>Text (Single Line)  | ★ |
| 1.3 | Shipping term - indicate incoterm offered - DAP, DPP, EXW, etc.<br>Text (Single Line)  | ★ |
| 1.4 | Product Offered:<br>Bidders shall return descriptive literature and detailed specifications on product offered. Failure to do so may result in the disqualification of your response.<br>File Upload   | ★ |
| 1.5 | Warranty Terms:<br>Indicate warranty terms on product offered<br>Text (Single Line)  | ★ |
| 1.6 | INDICATE CURRENCY QUOTED:<br>NON-QATAR VENDORS, please bid in your local currency (bank account currency).<br>FOR QATAR VENDORS, please bid in Qatari Riyals (QAR).<br>Currency Quoted*:<br><br>_____<br>*Indicate USD, QAR, GBP, EUR, etc<br>Text (Single Line) | ★ |
| 1.7 | Vendor to indicate contact person and contact phone and fax numbers where orders are to be placed: Contact: Telephone Number: Fax Number: Email:<br>Text (Multi-Line)  | ★ |

★ Required Product Line Items

#	Item Name, Commodity Code, Description	Qty.	UOM	Target Price	Allow Alternates	Requested Delivery
P1.1	Interfacial Tension and Contact Angle ★	1	EA - Each	-		-
	41100000 - Laboratory and scientific equipment   5751 <\$5k, 8422 / Interfacial Tension and Contact Angle, IFT 700 APPARATUS or equivalent per detailed specifications.					
P1.2	Spare Parts & Consumables ★	1	EA - Each	-		-
	41100000 - Laboratory and scientific equipment   5751 <\$5k, 8422 / Spare Parts & Consumables per detailed specifications					
P1.3	Installation and Training ★	1	LO - Lot	-		-
	72151800 - Machine installation and maintenance and repair services   5512 / Installation and Training, per detailed specifications					
P1.4	Shipping ★	1	LO - Lot	-		-
	78141501 - Freight forwarders services   5650 / Shipping to TAMU-Qatar, per detailed specifications					

# Service Line Items

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There are no Items added to this event.

**Reference AggieBid # 02QATAR-ITB-1714**  
**INTERFACIAL TENSION and CONTACT ANGLE (IFT) 700 APPARATUS**

Item #	Item & Description	Qty	Unit	Unit Price	Extension	Delivery (Days)
	<p>Texas A&amp;M University at Qatar is seeking bids for INTERFACIAL TENSION and CONTACT ANGLE (IFT) 700 APPARATUS</p> <p>Upon award, item will be for use and delivery to the Texas A&amp;M University at Qatar campus located in Doha, Qatar.</p> <p><b>Shipping Terms for Non Doha vendors:</b>  Incoterm - DAP (Delivery at Place), Vendor will deliver the goods DOOR-TO-DOOR to TAMUQ excluding Duties &amp; Taxes and Including Custom Clearance. TAMUQ is responsible for Duties, Taxes, Legalization and Bayan.</p> <p><b>Shipping Terms for Doha vendors:</b>  Incoterm - DDP (Delivery Duty Paid), Vendor will deliver the goods DOOR-TO-DOOR to TAMUQ including Duties, Taxes and Customs Clearance. No additional charge will to T AMUQ.</p> <p><b>For shipping terms DDP:</b>  Qatar Customs have implemented an automated electronic clearance process called "Single Window" and all incoming shipment will be subject to BAYAN &amp; Admin Charge. For shipping terms DDP, all customs chargers will be borne by the vendor. TAMUQ will not be responsible for these charges with your shipping agent</p> <p>For any shipping related concerns, please contact:  <a href="mailto:shippingreceiving@qatar.tamu.edu">shippingreceiving@qatar.tamu.edu</a></p> <p><b>PLEASE NOTE (for reference only):</b> Qatar Customs requires ALL original shipping documents (depending on which shipment mode) as per below list. Please check and confirm with your shipping agent if these documents are required to be provided to their local clearing agent to clear the shipment from Qatar Customs:</p> <ul style="list-style-type: none"> <li>Original Certificate of Origin stamped from Chamber of Commerce</li> </ul>					

1477 TAMU  
P.O. Box 30013  
College Station, TX 77842-3013

Tel. 979.845.4570 Fax. 979.845.3800  
<http://purchasing.tamu.edu>



Item #	Item & Description	Qty	Unit	Unit Price	Extension	Delivery (Days)
	<ul style="list-style-type: none"> <li>Original Commercial Invoice stating each item (price/original made/quantity) stamped from Chamber of Commerce</li> <li>Packing List</li> <li>Airway Bill</li> </ul> <p>All information MUST be the same on each of the above documents. If information is different, the shipment will not clear Qatar Customs.</p> <p><b>Payment Terms:</b> 100% Net 30 upon receipt of goods, invoice, completion of installation, acceptance, whichever is later.</p> <p>*****</p> <p><b>INDICATE CURRENCY QUOTED:</b></p> <p>NON-QATAR VENDORS, please bid in your local currency (bank account currency).</p> <p>FOR QATAR VENDORS, please bid in Qatari Riyals (QAR).</p> <p>Currency Quoted*:</p> <p>_____</p> <p>*Indicate USD, QAR, GBP, EUR, etc</p>					
1.	<p><b>Interfacial Tension and Contact Angle, IFT 700 APPARATUS or equivalent meeting the following minimum specifications.</b></p> <p>The robust yet precise IFT700 apparatus can determine at reservoir-representative conditions of pressure and temperature, both the interfacial tension of two immiscible fluids using the pendant/rising drop methods and the contact angle of a liquid droplet on a solid surface using the sessile drop method.</p> <p><b>Interfacial tension:</b> By means of a capillary needle, a droplet (drop fluid) is formed in a chamber containing the other fluid (bulk fluid), subjected to the desired pressure and temperature conditions. A state-of-the-art image capture and processing system computes the relevant geometric parameters to derive the interfacial tension using the Laplace equation.</p>	1	EA			

Item #	Item & Description	Qty	Unit	Unit Price	Extension	Delivery (Days)
	<p><b>Contact angle (Young's angle):</b> The process is similar to the interfacial tension with the additional step of depositing the droplet on a planar solid surface. Upon reaching equilibrium, the contact angle can directly be measured with the Vinci interpretation software.</p> <p><b>Scope of supply:</b></p> <ul style="list-style-type: none"> <li>- High-Pressure, High-Temperature view cell with heating system</li> <li>- Capillary needle</li> <li>- Two manual pumps for fluid transfer (drop and bulk fluid)</li> <li>- Tubing and valves</li> <li>- Instrumentation and safety device</li> <li>- Camera and light source</li> <li>- Supporting facility</li> <li>- Drop shape analysis computer system</li> <li>- Documentation</li> </ul> <p><b>General specifications:</b> IFT standard measurement - 0.1 to 72 mN/m Contact angle - From 10° upwards Pressure - 700 bar (10,000psi) Temperature - 180°C (360°F) Wetted material - Stainless steel AISI 316 SS Heating jacket, controller - 220 VAC 1 ph</p> <p><b>View cell:</b> The cell warrants droplet visualization at reservoir conditions, It incorporates a significant see-through sapphire window allowing interfacial tension and contact angle determination. A solid plate is inserted into the view cell for contact angle measurements. The cell is mounted onto a rigid, vibration-free frame to maintain drop stability. An efficient heating jacket, wrapped around the cell provides the required temperature.</p> <p><b>Features:</b></p> <ul style="list-style-type: none"> <li>- Max pressure: 10,000 psi</li> <li>- Max temperature: 180°C (360°F)</li> <li>- Wetted material: AISI 316 SS</li> <li>- Window material: sapphire</li> <li>- Window sealing material: PTFE</li> <li>- Internal volume: 25 cc</li> </ul> <p><b>Capillary needle</b> Allows droplet initiation and deposition. Three needles with different internal diameters are provided: 0.6, 0.9 and 1.2 mm</p>					

Item #	Item & Description	Qty	Unit	Unit Price	Extension	Delivery (Days)
	<p><b>Hand pump (2 sets)</b> Helical screw piston hand pump used for fluid storage, pressurization and injection</p> <p><b>Features:</b> Max pressure 10,000 psi Wetted material 316 SS Internal volume 20 cc</p> <p>A 20 cc, 750 psi transfer syringe pump, is also provided to facilitate fluid transfer into the accumulator.</p> <p><b>Tubing and valve</b> All necessary valves, piping and tubing, wetted material 316 SS.</p> <p><b>Instrumentation and safety devices</b></p> <ul style="list-style-type: none"> <li>- Two pressure gauges</li> <li>- One pressure sensor with digital display</li> <li>- One digital temperature probe</li> <li>- One rupture disk</li> </ul> <p><b>Drop shape analysis system</b> The system consists of a computer, camera, interface electronics and a user friendly data acquisition and interpretation system. The shape of the drop is continuously recorded by the camera and displayed on the computer screen. A lighting system installed on the opposite side yields flawless drop images.</p> <p><b>Computer Features</b> The computer workstation uses the latest state of the art personal computer operating with the latest Microsoft windows version and a specific supervision package. The system is provided with a user-friendly Vinci software for data acquisition and system control by means of intuitive icons.</p> <ul style="list-style-type: none"> <li>- Personal computer</li> <li>- Colour monitor</li> <li>- Inkjet colour printer</li> <li>- Microsoft Windows package</li> <li>- Drop shape analysis software</li> </ul> <p><b>Documentation</b></p> <ul style="list-style-type: none"> <li>- Operation and maintenance manuals</li> <li>- Technical specifications</li> <li>- Data sheet of main components</li> <li>- Spare parts lists</li> </ul>					
2	<b>SPARE PARTS AND CONSUMABLE ITEMS</b>	1	SET			

Item #	Item & Description	Qty	Unit	Unit Price	Extension	Delivery (Days)
	<b>For two years operation including:</b> <ul style="list-style-type: none"> <li>- 2 ea. Window seals</li> <li>- 2 ea. Rupture discs</li> <li>- 5 ea. Seal for hand pump</li> <li>- 5 ea. Seal for needle</li> <li>- 2 ea. Needles</li> <li>- Set of fuses</li> <li>- 1 Set of ferrules</li> </ul> <b>TOOL KIT</b> <ul style="list-style-type: none"> <li>- 1 ea Spirit level</li> <li>- 1 ea Cleaning kit</li> <li>- 1 ea Open - end wrench 38MM DIN894</li> <li>- 1 ea Open - end wrench</li> </ul>					
3	<b>ON -SITE INSTALLATION AND TRAINING</b>  <p>The requested equipment is to be supplied as a complete operational system, set-up and ready for use. Any/all operational/maintenance manuals are to be provided at the time of installation.</p> <p>This project shall be considered a “turnkey” project that includes all aspects of the installation.</p> <p><b>Final Testing and Acceptance Criteria:</b></p> <p>The complete installation shall be inspected by Texas A&amp;M – Qatar to assure that all equipment is installed in a professional manner and in accordance with these specifications.</p> <p>The final system testing and demonstration shall be performed after the installation and initial testing has been completed by vendor put prior to any use of the system. Vendor shall ensure that system meets or exceeds performance specifications as per manufacturer criteria. The vendor shall be responsible for properly performing all setup of equipment and all assembly.</p> <p>All travel related expenses shall be included</p> <p><b>Insurance Requirements:</b></p> <p>The successful vendor will, at its sole cost and expense, acquire and maintain in effect during the period of the Agreement, general and professional liability insurance and any employee compensation</p>	1	LOT			

Item #	Item & Description	Qty	Unit	Unit Price	Extension	Delivery (Days)
	<p>insurance as may be required by the laws of the country in which the successful vendor is organized.</p> <p><b>Training</b></p> <p>Training shall include at least a one (1) day onsite demonstration of the proper operating techniques of equipment installed to at least two (2) individuals designated by the end user. The demonstration shall include basic training on the proper operation of the equipment.</p> <p><b>All training expenses shall be included within your bid response. No additional expenses will be allowed to be added once award has been made.</b></p>					
4	<p><b>Shipping and handling*</b></p> <hr/> <p>*Please indicate, DDP, DAP, Ex-Works, etc</p>	1	LOT			
	<p><b>Note To Bidders:</b></p> <p><b>Product Offered:</b></p> <p>Bidders shall return descriptive literature and detailed specifications on product offered. Failure to do so may result in the disqualification of your response.</p> <p>Warranty Terms:</p> <p>Indicate warranty terms on product offered:</p> <hr/> <p><b>Award</b></p> <p>The award shall be made based on the following "Best Value Criteria". Texas A&amp;M reserves the right to consider the following and any other factor deemed necessary to evaluate the offer and determine the "Best Value" for the University.</p> <p>-Vendor's ability to meet the minimum specifications;          -Delivery requirement;          -Experience/past experience with vendor;</p>					

Item #	Item & Description	Qty	Unit	Unit Price	Extension	Delivery (Days)
	<p>-The quality, availability and adaptability of equipment offered to required application.</p> <p>-Warranty terms;</p> <p>-Acceptance of payment terms;</p> <p>-Quality of performance of pervious services;</p> <p>-The acquisition price.</p> <p>Texas A&amp;M University reserves the right to accept or reject any or all bids, to waive informalities and technicalities, to accept the offer considered the most advantageous to the University</p> <p>Texas A&amp;M University reserves the right to make the decision as to what system best meets the minimum specifications and which system best suits the needs of the university. Texas A&amp;M's decision is final.</p>					