**TEXAS A&M UNIVERSITY**  
College Station, TX 77843-1477  
PURCHASE ORDER  

**Invoice To:**  
TEXAS A&M UNIVERSITY  
TEXAS A&M UNIVERSITY @ QATAR  
C/O QATAR FOUNDATION  
EDUCATION CITY  
P. O. BOX 23874  
DOHA 00000  

**Ship To:**  
TEXAS A&M UNIVERSITY  
TEXAS A&M UNIVERSITY AT QATAR  
C/O QATAR FOUNDATION  
EDUCATION CITY  
DOHA, QATAR 00000  
QATAR  

---  

**Any exceptions to pricing or description contained herein must be approved by the Texas A&M Department of Procurement Services prior to shipping.**  

**Please note:** If your invoice is not addressed as instructed payment will be delayed.  

<table>
<thead>
<tr>
<th>ITEM</th>
<th>DESCRIPTION</th>
<th>QUANTITY</th>
<th>UOM</th>
<th>UNIT PRICE</th>
<th>EXTENDED PRICE</th>
</tr>
</thead>
</table>
| USER REF: 940470-231384  
DEPARTMENT CONTACT: BILAL MANSOOR | | | | | |
| SUBMIT INVOICE TO: PURCHASING@QATAR.TAMU.EDU | | | | | |
| SHIPPING CONTACT: SHIPPINGRECEIVING@QATAR.TAMU.EDU | | | | | |
| **UPON AWARD, EQUIPMENT WILL BE FOR USE AND DELIVERY TO THE TEXAS A&M UNIVERSITY - QATAR CAMPUS LOCATED IN DOHA, QATAR.** | | | | | |
| **SHIPPING TERMS:** | | | | | |
| **INCOTERMS: EX-WORKS** | | | | | |
| **PLEASE NOTE: QATAR CUSTOMS REQUIRES ALL ORIGINAL SHIPPING DOCUMENTS:** | | | | | |
| **1 - ORIGINAL CERTIFICATE OF ORIGIN STAMPED FROM CHAMBER OF COMMERCE** | | | | | |
| **2 - ORIGINAL COMMERCIAL INVOICE STATING EACH ITEM (PRICE/ORIGINAL MADE/QUANTITY) STAMPED FROM CHAMBER OF COMMERCE.** | | | | | |
| **3 - PACKING LIST;** | | | | | |
| **4 - AIRWAY BILL** | | | | | |
| **ALL INFORMATION MUST BE THE SAME ON EACH OF THE ABOVE DOCUMENTS. IF THE INFORMATION IS DIFFERENT, THE SHIPMENT WILL NOT CLEAR QATAR CUSTOMS.** | | | | | |
| **IN FIRM US DOLLARS** | | | | | |

**FOB:** NOT SPECIFIED  
Texas A&M University cannot accept collect freight shipments.  

**FAILURE TO DELIVER:** If the vendor fails to deliver these supplies by the promised delivery date or a reasonable time thereafter, without giving acceptable reasons for delay, or if supplies are rejected for failure to meet specifications, the State reserves the right to purchase specified supplies elsewhere, and charge the increase in price and cost of handling, if any, to the vendor. No substitutions or cancellations permitted without prior approval of the Texas A&M Department of Procurement Services.  

The State of Texas is exempt from all Federal Excise Taxes.  

**STATE AND CITY SALES TAX EXEMPTION CERTIFICATE:** The undersigned claims an exemption from taxes under Chapter 20, Title 12A, Revised Civil Statutes of Texas, for purchase of tangible personal property described in this numbered order, purchased from contractor and/or shipper listed above, as this property is being secured for the exclusive use of the State of Texas.  

**Terms:** N 30  
IN ACCORDANCE WITH YOUR BID, SUPPLIES/EQUIPMENT MUST BE PLACED IN THE DEPARTMENT RECEIVING ROOM BY:  
12/15/2016  

**This Order is not valid unless signed by the Purchasing Agent.**  

**Purchasing Agent for TEXAS A&M UNIVERSITY**  
Phone: 979-845-4570
**TEXAS A&M UNIVERSITY**  
College Station, TX 77843-1477  
PURCHASE ORDER  

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| 1    | FSW-TS-S08 Friction Stir Welding Machine as per the following minimum specifications:  
Technical Specifications:  
- Height 2360mm;  
- Width 1550mm;  
- Length 1850mm;  
- Max. Spindle Speed 2500 RPM;  
- X-Axis Stroke 800mm;  
- Max. X-Axis Moving Speed 3000mm/min;  
- Y-Axis Stroke 200mm  
- Max. Y-Axis Moving Speed 3000mm/min;  
- Z-Axis Stroke 300mm;  
- Z-Axis Space 350mm;  
- Max. Z-Axis Moving Speed 1500mm/min;  
- Working Table Size 900mm 340mm;  
- B Axis for Tool Tilt Angle -5-5  
Degree (Manual)  
- Control System CFSW-PL800 Control system for FSW  
- Control Mode Position Control & Force Control  
- Machine Weight 3.3 T  
Electrical components:  
- Control System:  
  CFSW-PL800 control system for FSW with the alternative functions for manual and automatic programming operation with fault with fault diagnosis  
- Spindle Motor:  
  To provide spindle torque  
- Servo Motors:  
  Servo Motors with band-typebrake of X axis, Y axis and Z axis motor, protecting welding head safely if powered off.  

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12/15/2016  

Purchasing Agent for  
TEXAS A&M UNIVERSITY  
Phone: 979-845-4570
## TEXAS A&M UNIVERSITY

**Order Date:**
09/15/2016

**Page:**
03

---

**Vendor:**
T0000267620
BEIJING FSW TECHNOLOGY CO LTD
NO 2 WUXING NR
TONY ZHOU DISTRICT
BEIJING
CHINA

**Invoice To:**
TEXAS A&M UNIVERSITY
TEXAS A&M UNIVERSITY AT QATAR
C/O QATAR FOUNDATION
EDUCATION CITY
P. O. BOX 23874
DOHA 00000
QATAR

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TEXAS A&M UNIVERSITY AT QATAR
C/O QATAR FOUNDATION
EDUCATION CITY
DOHA, QATAR 00000
QATAR

---

**Item**
- Gear Boxes:
  - Position Feedback Unit: CPSW-PP008, adopting linear scale of Z axis with high accuracy.
  - Load Cell: CPSW-LY3T, Control the down force and give feedback to control system.
  - Control Panel and Electrical Cabinet: Whole set of Cabinet with high stability and reliability.
  - Hand Pendant: For easy manual operation nearby with jerk function.
  - Working Lights: 4pcs of LED energy saving lights on welding head.

**Description**
Moving Driving Components:
- Moving Driving Mode for X, Y and Z axis: Guide Rail + Ball screw
- Ball Screw: With flange double nuts, high load and good stability.

**Lubricating System:**
- Adopting Thin Oil Lubricating Pump: Automatically controlled by program with interrupted oil supply to the guide rails and ball screws.

**Quantity**
2

**UOM**
LOT

**Unit Price**

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<th>UOM</th>
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**Total**

2

**FOB:**
NOT SPECIFIED

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TEXAS A&M UNIVERSITY
Phone: 979-455-4570
TEXAS A&M UNIVERSITY
College Station, TX 77843-1477
PURCHASE ORDER

Order Date: 09/15/2016
Page: 04

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Purchasing Agent for
TEXAS A&M UNIVERSITY
Phone: 979-845-4570

ITEM | DESCRIPTION | QUANTITY | UOM | UNIT PRICE | EXTENDED PRICE
--- | --- | --- | --- | --- | ---
1. ready for use. Any/all operational/maintenance manuals are to be provided at the time of installation.

This project shall be considered a "turnkey" project that includes all aspects of the installation.

Final Testing and Acceptance Criteria:

The completed installation shall be inspected by Texas A&M - Qatar to assure that all equipment is installed in a professional manner and in accordance with these specifications.

The final system testing and demonstration shall be performed after the installation and initial testing has been completed by vendor but prior to any use of the system. Vendor shall ensure that system meets or exceed performance specifications as per manufacturer criteria. The vendor shall be responsible for properly performing all setup of equipment and all assembly.

Insurance Requirement

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 insurance as may be required by the laws of the country in which the successful vendor is organized.

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T0000267620
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NO 2 WUXING NR
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CHINA

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Items |
--- |
Biders shall submit a copy of insurance certificate with bid response for review by System Office of Risk Management with bid response.

3 Training

Training shall include at least five (5) days on-site demonstration of the proper operating techniques of equipment ordered to at least two (2) individuals designated by the end user. This demonstration is to include basic training on the proper operation of the equipment installed.

All training expenses must be included here-in. Additional charges will not be allowed to be added once an award is made.

**Installation and training are to be performed on the same day(s), where possible.**

4 Shipping Terms:

Incoterm - Ex-Works

Note To Vendor:

Payment Terms:

100%, Net 30 - Upon Receipt, Completion of Installation and Acceptance

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--- | --- | --- | --- | --- | --- |
3 | Training | 1 | LOT | 0.000 | 0.00 |
4 | Shipping Terms: | 1 | LOT | 0.000 | 0.00 |

**TOTAL** 62,000.00

Notes:

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DOCUMENT DATE: 08/01/2016

DEPT. CONTACT: BILAL MANSOOR  
PHONE NO.:  

SOLE SOURCE REASON:  
AS PER ATTACHED

PCE CD:  

TYPE FUND: L TYPE ORDER: HIED

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