

## SINGLE TENDER

Single Tender No: IITH/MAE/RPKUMAR/2021/S/T377

Date: 08/09/2021

Indian Institute of Technology Hyderabad invites online bids (e-tender) in Single Bid ( Technical + Financial) System , from Original Equipment Manufacturer (OEM) /Authorized distributors/Authorized dealer for the following item

Item Description	Qty
Item Name: Data Acquisition model for the ME systems K6D110 Force/Torque Sensor, Data Logging and Analysis Software	01
Annexures: Technical Specifications as per Annexure A Compliance Statement as per Annexure B Bill of Material as per Annexure C Manufacturer authorization as per <b>Annexure –‘D’</b> Bidder Information Sheet as per Annexure E Acceptance of terms and conditions as per Annexure F	

The Tender Document can be downloaded from <https://mhrd.euniwizarde.com> OR Institute website- <https://iith.ac.in/tenders>

The bid is to be submitted online only through the E-procurement portal of <https://mhrd.euniwizarde.com> up to the last date and time of submission of tender.

### Schedule of Dates

Sr.No	Particulars	Date	Time
1	Date of Online Publication/Download of Tender	08/09/2021	11:00 Hrs
2	Bid Submission Start Date	08/09/2021	11:10 Hrs
3	Bid Submission Close Date	21/09/2021	11:00 Hrs
4	Opening of Bids	21/09/2021	11:10 Hrs

No manual bids will be accepted. All quotation should be submitted online through E-procurement portal of <https://mhrd.euniwizarde.com>

Any queries relating to the process of online bid submission or queries relating to e-tender Portal in general may be directed to the Helpdesk Support - Phone No. 011-49606060. Mail id: - [helpdeskeuniwizarde@gmail.com](mailto:helpdeskeuniwizarde@gmail.com)

## **INSTRUCTIONS FOR ONLINE BID SUBMISSION**

The Tender Document can be downloaded from <https://mhrd.euniwizarde.com> OR Institute website- <https://iith.ac.in/tenders>.

The bidders are required to submit soft copies of their bids electronically on the <https://mhrd.euniwizarde.com> using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the Portal, prepare their bids in accordance with the requirements and submitting their bids online.

More information useful for submitting online bids may be obtained at: <https://mhrd.euniwizarde.com>

### **GUIDELINES FOR REGISTRATION:**

1. Bidders are required to enrol on the e-Procurement Portal with clicking on the link “Online Bidder Enrolment ” on the e-tender Portal by paying the Registration fee of Rs.2000/- +Applicable GST.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication with the bidders.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Only Class III Certificates with signing + encryption key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile. Or bidders can contact help desk for getting the DSC.
5. Only valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID /password and the password of the DSC / e-Token.
7. The scanned copies of all original documents should be uploaded in pdf format on portal <https://mhrd.euniwizarde.com>
8. After completion of registration payment, bidders need to send their acknowledgement copy on help desk mail id [helpdeskeuniwizarde@gmail.com](mailto:helpdeskeuniwizarde@gmail.com) for activation of their account.

## SEARCHING FOR TENDER DOCUMENTS

1. There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters.
2. Once the bidders have selected the tenders they are interested in, you can pay the form fee and processing fee (NOT REFUNDABLE) by net-banking / Debit / Credit card then you may download the required documents / tender schedules, Bid documents etc. Once you pay both fee tenders will be moved to the respective 'requested' Tab. This would enable the e- tender Portal to intimate the bidders through e-mail in case there is any corrigendum issued to the tender document.

## PREPARATION OF BIDS

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF formats. Bid Original documents may be scanned with 100 dpi with Colour option which helps in reducing size of the scanned document.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g. PAN card copy, GST, Annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents" available to them to upload such documents.
5. These documents may be directly submitted from the "My Documents" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process.

## SUBMISSION OF BIDS

1. Bidder should log into the website well in advance for the submission of the bid so that it gets uploaded well in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document as a token of acceptance of the terms and conditions laid down by IIT Hyderabad.
3. Bidder has to select the payment option as "e-payment" to pay the tender fee / EMD as applicable and enter details of the instrument.

4. In case of Bank Guarantee (BG) bidder should prepare the BG as per the instructions specified in the tender document. The BG in original should be posted/couriered/given in person to the concerned official of IIT Hyd before the Online Opening of Technical Bid. In case of non-receipt of BG in original by the said time, the uploaded bid will be summarily rejected.
5. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the white Colored (unprotected) cells with their respective financial quotes and other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.
6. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7. The uploaded tender documents become readable only after the tender opening by the authorized bid openers.
8. Upon the successful and timely submission of bid click "Complete" (i.e. after Clicking "Submit" in the portal <https://mhrd.euniwizarde.com>), the portal will give a successful Tender submission acknowledgement & a bid summary will be displayed with the unique id and date & time of submission of the bid with all other relevant details.
9. The tender summary has to be printed and kept as an acknowledgement of the submission of the tender. This acknowledgement may be used as an entry pass for any bid opening meetings.

**For any clarification in using <https://mhrd.euniwizarde.com>**

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to e-tender Portal in general may be directed to the Helpdesk Support.

Please feel free to contact euniwizard helpdesk (as given below) for any query related to etendering -  
Phone No. 011-49606060. Mail id: - [helpdeskeuniwizarde@gmail.com](mailto:helpdeskeuniwizarde@gmail.com)/ Mr.Vijay - 08448288989/Mr.Gagan-8448288987

## **TERMS & CONDITIONS**

1. It may kindly be noted that your bid should:

a) Single Part

2. The acceptance of the quotation will rest with the competent authority, who does not bind himself to accept the lowest quotation and reserves the right to himself to reject, or partially accept any or all the quotations received without assigning any reason.

3. Price quoted should be as per the BoQ and valid for a minimum period of 60 days from the date of opening of the quotation. The rate quoted should be free delivery at IITH Stores, Kandi 502284 .

4. Complete specification with manufacturer's name and address should be given while quoting. Literature/Pamphlets should also be enclosed wherever applicable

5. In cases of agents quoting on behalf of the manufacturers, one agent cannot represent two manufacturers or quote on their behalf in a particular tender enquiry. One manufacturer can also authorize only one agent/dealer. There can be only one bid from the following:

i) The manufacturer directly or through one agent on his behalf; or

ii) Agent on behalf of only one principal.

6. IIT Hyd is registered with Dept. of Scientific & Industrial Research, Govt. of India and concessional customs duty and GST & IGST are leviable vide notification no. 54/2002-Customs on all imports covered under notification No.51/96-Customs dated 23.07.1996, Notification No.47/2017-Integrated Tax (Rate) and Notification No.45/2017-Central Tax (Rate) both dated 14th November, 2017.

7. In case the items in the enquiry are covered by any rate contract or running contract finalised by any other state or central Government, it should be specified in your quotation and accepted contract rates should also be mentioned.

8. Delivery period : Material should be delivered and installed within 30 days from the date of issue of purchase order. The offered delivery period shall have to be strictly adhered to in case an order is placed.

9. Liquidated Damages Clause for delays: The applicable rate is 0.5% per week and maximum deduction is 10% of the contract price.

10. If the deliveries are not maintained and due to that account the purchaser is forced to buy the material at your risk and cost from elsewhere, the loss or damage that may be sustained there by will be recovered from the defaulting supplier

11. . **Payment: - No advance payments are allowed.**

A) INDIGENIOUS

100% payment shall be made against delivery, installation, commissioning and on demonstration of the whole system to the satisfaction of the Institute/ Scientist/Technologist/Indentor/Professor etc.

B) IMPORT

i) **Letter of Credit** will be established for 100% order value excluding the Agency Commission due to the Indian Agents.

90% payment shall be made against the presentation of original Shipping documents to our bankers or as per the LC terms and conditions. Balance 10% will be released after completion of satisfactory installation, commissioning, demonstration of the whole system to the satisfaction of the Institute/User Scientist Technologist/Indentor/Professor.

OR

ii) **By Wire Transfer** - 90% payment shall be made against delivery, installation, commissioning and balance 10% on demonstration of the whole system to the satisfaction of the Institute/User Scientist /Technologist/Indentor/Professor

iii) The payment of local currency portion shall be payable in Indian Rupees, within 30 days after the receipt of the equipment in good condition and after satisfactory installation and commissioning and demonstration.

iv) The Agency Commission to the Indian Agent will be paid in INR only after successful installation, commissioning and satisfactory demonstration and acceptance of the items ordered for by the end user.

12. Warranty & Maintenance contract: The supplier shall warranty equipment, system components for a minimum period of 01 year onsite warranty following satisfactory installation and commissioning. The defects, if any, during the guarantee/warranty period are to be rectified free of charge by arranging free replacement wherever necessary. All expenditure including government levies on account of the replacement are to be borne by the supplier/agent.

13. Installation & Testing: The installation shall be completed within a week from the date of intimation regarding the arrival of the equipment in the institute. The installed system shall be performance tested at our premises in accordance with the manufacturer's/supplier's recommendation/specifications. Tests shall demonstrate the proper operation of the instrument and all components.

14. All supplies are subject to inspection and approval before acceptance. Manufacturer warranty certificates and manufacturer/Government approved lab test certificate shall be furnished along with the supply, wherever applicable
15. Kindly furnish your PAN & GST Number etc. in your quotation for our records.
16. Conditional tenders will not be accepted.

**17. ARBITRATION:** a) Unless otherwise specified, in all cases of disputes which cannot be settled by mutual negotiations, the disputes or differences shall finally be settled and binding on both parties by arbitration in conformity with the rules of Indian Arbitration Act, 1940. All disputes or differences what so ever arising between the parties out of relating to the construction, meaning and operation or effect of the general terms and conditions including the Purchase Order or the breach thereof shall be settled by Arbitration Act, 1940 and the award made in pursuance thereof shall be binding on the parties.

b) Performance of the purchase order shall continue during arbitration and any subsequent proceedings.

c) The Jurisdiction and Venue of arbitration shall be Hyderabad. The Arbitrator will be the Director, IIT Hyderabad, or his nominee.

20. All disputes shall be settled in the courts of Hyderabad/Sangareddy only

21. The Director, IIT Hyd reserves the right to accept the offer in full or in parts or reject summarily or partly and also reserves the right to cancel the tender at any stage without assigning reasons

**For any technical query related to enquiry you may to contact**

Dr. R Prasanth Kumar, Department of Mechanical and Aerospace - Email: [rpkumar@mae.iith.ac.in](mailto:rpkumar@mae.iith.ac.in)

For Commercial query

Mr. Suresh Nair - Assistant Registrar Email : [ar.purchase@iith.ac.in](mailto:ar.purchase@iith.ac.in)

Mr. Jagadeesh B – Deputy Registrar Email : [dr.snp@iith.ac.in](mailto:dr.snp@iith.ac.in)

With CC: [office.stores@iith.ac.in](mailto:office.stores@iith.ac.in)

**Note :** *Participation in this tender is by invitation only and is limited to the selected Purchaser's registered suppliers. Unsolicited offers are liable to be ignored. However, suppliers who desire to participate in such tenders in future may bring it to the notice of the purchaser and apply for registration as per procedure*



ANNEXURE A

**TECHNICAL SPECIFICATIOS**

<b>Name of the Product : DAQ module for K6D110 Sensor</b>	
<b>Product description</b>	<b>Qty</b>
<p><b>1. A Data Acquisition System for the K6D110 Force/Torque sensor with the following specifications:</b></p> <ol style="list-style-type: none"> <li>1. 8-channel amplifier specially designed and compatible for ME system Germany make K6D series multi axis sensors.</li> <li>2. 8x input configurable</li> <li>3. Full, half, quarter bridge, 120- 350- 1000 ohm, PT1000, <math>\pm 10V</math>, Thermocouple Type K, IEPE Sensors</li> <li>4. Outputs 1x USB port, 8x analog output <math>\pm 10V</math>, 4 ... 20mA configurable, 1x UART/RS232/RS422</li> <li>5. 16x Digital Input Output</li> <li>6. 5x galvanic isolation: analog input, analog output, digital IO, UART, USB</li> <li>7. 8x 48kS / s simultaneous sampling</li> <li>8. 6-wire technology, bridge supply 2.5V, 5.0V, 8.75V configurable</li> <li>9. Digital filters IIR and FIR configurable</li> <li>10. Resolution &lt;20 nV / V</li> <li>11. Advanced software for Data viewing, recording and analysis.</li> </ol> <p><b>2. Data logging and Analysis Software.</b></p> <ol style="list-style-type: none"> <li>a. The Windows program must be suitable for live viewing, recording and viewing / analysis of stored measuring data.</li> <li>b. The multiple channels to be recorded over the time axis (y-t diagram) or via an "X-axis" (X-Y diagram).</li> <li>c. The measuring data is stored in binary "TDMS" by recording and can be opened, displayed and exported in text or Excel format with the integrated "File Monitor".</li> </ol> <p>(Detailed Technical Specifications and Additional Functions are given</p>	1



Below)

Technical Specifications of the DAQ Module		
<b>Input analog</b>		
Input sensitivity-steps	2.0   3.5   7	mV/V
Input resistance strain-gauge-full-bridge	60 ... 5	Ohm
Input voltage f	-10 ... 10	V
Input resistance-voltage	10	MOhm
Temperature input-type	PT1000	
Temperature-measuring range from	-230	°C
<b>Output analog</b>		
Number of analog outputs	8	
Voltage output f	-10 ... 10	V
Output resistance - voltage	50	Ohm
Current output f	4 ... 20	mA
Output resistance - current	350	Ohm
Isolation of the analog output	2	kV
<b>Measuring frequency</b>		
Data frequency	0 ... 48000	Hz
<b>Supply</b>		
Supply voltage	12 ... 28	V DC
Strain gauge bridge supply	5   2.5   8.75	V DC
<b>Interface</b>		
Type of the interface	USB   UART   TEDS	
Quantity of the interface	2	
Version of the interface	USB 2.0 Full speed	
<b>Temperature</b>		
Rated temperature range f	0 ... 50	°C
Operating temperature range f	-20 ... 70	°C
Environmental protection	IP64	
<b>Basis Data</b>		
Dimensions	172 x 172 x 55	mm
Housing	Aluminum	
Connection	Connector	
Connection type	Sub-D44HD	
Number of channels	8	
<b>Precision</b>		

Accuracy class	0.05 %	
Relative linearity error	0.02 %FS	
Resolution	24 Bit	

### Functions for the Data logging and analysis Software:

1. setting the Measuring frequency.
2. setting the display (unit, scaling factor).
3. calculate the scaling for sensors (force, displacement, torque, active sensors with voltage or current output).
4. Online monitor (graphical live-display).
5. setting the digital filter.
6. simulation of the digital filter (represent frequency response and step response).
7. configuration of analog outputs.
8. configuration of the digital IO ports.
9. configuration of the CAN bus parameters.
10. loading and saving of the complete settings (Sessions) to file.
11. loading and saving of configurations (Settings) in the amplifier memory.
12. loading and exporting (Excel and CSV) of stored data (File-Monitor).
13. integrating of the calibration matrix for 6-axis sensors (K6D series).
14. stress analysis with strain gages rosettes.
15. hardware-triggered data recording via digital input.
16. software-triggered data recording via threshold value over- or undershoot or timed.
17. call parameters for inclusion in scripts, Batch Files or Windows Task Schedules.
18. context help.
19. opening multiple graphical life displays
20. setting the axis scaling "auto scale" or fixed,
21. Assigning of the channel-names,
22. Live display of the spectral power density (frequency analysis),
23. Useful keyboard "shortcuts", like F12, Ctrl-Z, Ctrl-A,
24. Reading and writing of TEDS
25. Large Display of measuring values,
26. Configuration of Data format.
27. Administration: Lock (write protection against unauthorized. configuration), Operating hours counter, error memory.

ANNEXURE – B

**FORMAT OF COMPLIANCE STATEMENT OF SPECIFICATIONS**

1	2	3	4	5	6
S. N.	Name of specifications/part / Accessories of tender enquiry  As per Annexure A of the Tender Document.	Specifications of quoted Model/ Item	Compliance  Whether “YES” Or “NO”	Deviation, if any, to be indicated in unambiguous terms	Whether the compliance / deviation is clearly mentioned in technical leaflet/ literature
1					
2					
3					
n					

ANNEXURE - C

BILL OF MATERIALS

Quotation No :

Date:

Name of the Bidder \_\_\_\_\_

Tender No. \_\_\_\_\_

Sr.No	Item Description	Country of Origin	Qty
1			
2			
3			
n			

**Other Terms & Conditions**

- 1 Payment terms :
- 2 Delivery Period from the date of Issue of PO :
- 3 Warranty :
- 4 Any other additional terms :

ANNEXURE – D

MANUFACTURER’S AUTHORIZATION FORM

[The Bidder shall require the Manufacturer to fill in this Form in accordance with the instructions indicated. This letter of authorization should be on the letterhead of the Manufacturer and should be signed by a person with the proper authority to sign documents that are binding on the Manufacturer]

Date: [Insert date (as Day, month and year) of Bid submission]

Tender No.: [Insert number from Invitation for Bids]

To: [Insert complete name and address of Purchaser]

WHEREAS

We [insert complete name of Manufacturer], who are official manufacturers of [Insert type of goods manufactured] having factories at [insert full address of Manufacturer’s factories], do hereby authorize [insert complete name of Bidder] to submit a bid the purpose of which is to provide the following goods, manufactured by us [insert name and or brief description of the goods], and to subsequently negotiate and sign the contract.

We hereby extend our full guarantee and warranty in accordance with the Terms and Conditions of Contract with respect to the Goods offered by the above firm.

Signed: [insert signature(s) of authorized representative(s) of the Manufacturer]

Name: [insert complete name(s) of authorized representative(s) of the Manufacturer]

Title: [insert title]

Duly authorized to sign this Authorization on behalf of: [insert complete name of Bidder]

Dated on \_\_\_\_\_ day of \_\_\_\_\_ [insert date of signing]

ANNEXURE – E

BIDDER INFORMATION FORM

Company Name : \_\_\_\_\_

Registration Number : \_\_\_\_\_

Registered Address : \_\_\_\_\_  
\_\_\_\_\_

Name of Partners /Director: \_\_\_\_\_  
\_\_\_\_\_

City : \_\_\_\_\_

Postal Code : \_\_\_\_\_

Company's Establishment Year : \_\_\_\_\_

Company's Nature of Business : \_\_\_\_\_

Company's Legal Status (tick on appropriate option )

- 1) Limited Company
- 2) Undertaking
- 3) Joint Venture
- 4) Partnership
- 5) Others ( In case of Others please specify)

Company Category

- 1) Micro Unit as per MSME
- 2) Small Unit as per MSME
- 3) Medium Unit as per MSME
- 4) Ancillary Unit
- 5) SSI

6) Others ( In case of Others please specify)

**CONTACT DETAILS**

Contact Name : \_\_\_\_\_

Email Id : \_\_\_\_\_

Designation : \_\_\_\_\_

Phone No : ( \_\_\_\_\_ ) \_\_\_\_\_

Mobile No : \_\_\_\_\_

**BANK DETAILS**

Name of Beneficiary : \_\_\_\_\_

A/c. No. CC/CD/SB/OD: \_\_\_\_\_

Name of Bank : \_\_\_\_\_

IFSC NO. (Bank) : \_\_\_\_\_

Branch Address and Branch Code: \_\_\_\_\_

\_\_\_\_\_

**Other Details**

Vendor's PAN No. \_\_\_\_\_

Vendor's GST \_\_\_\_\_



ANNEXURE – F

ACCEPTANCE OF TENDER TERMS  
(To be given on Company Letter Head)

Date: DD/MM/YYYY

To,

The Director  
Indian Institute of Technology Hyderabad  
Kandi – 502 285.Telangana, India

Sub: Acceptance of Terms & Conditions of Tender.

Tender Reference No: \_\_\_\_\_

Name of Tender / Work: -

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned 'Tender' from the web site(s) namely \_\_\_\_\_ as per your advertisement, given in the above mentioned website(s).

2. I / We hereby certify that I / we have read the entire terms and conditions of the tender documents (including all documents like annexure(s), schedule(s), etc .), which form part of the contract agreement and I / we shall abide hereby by the terms / conditions / clauses contained therein.

3. The corrigendum(s) issued from time to time by your department/ organisation too have also been taken into consideration, while submitting this acceptance letter.

4. I / We hereby unconditionally accept the tender conditions of above mentioned tender document(s) / corrigendum(s) in its totality / entirety.

5. I / We certify that all information furnished by the our Firm is true & correct and in the event that the information is found to be incorrect/untrue or found violated, then your department/ organisation shall without giving any notice or reason therefore or summarily reject the bid or terminate the contract, without prejudice to any other rights or remedy including the forfeiture of the full said earnest money deposit absolutely.

Yours Faithfully,

(Signature of the Bidder, with Official Seal)