



INDIAN INSTITUTE OF TECHNOLOGY  
KHARAGPUR-721302, INDIA

No. IITKGP/RMSOEE/EQPT/18-19/17

Date: 20.12.2018

**Sub: Invitation to tender for supply of Inertial Measurement Unit (IMU) and Development Kit**

Sealed tender offers are invited in two separate sealed covers (Technical and Commercial offers) from eligible Indian manufacturers/suppliers or foreign manufacturers through their direct Indian agents for the supply of the **Inertial Measurement Unit (IMU) and Development Kit** as per the Annexure-I for the **Rajendra Mishra School of Engineering Entrepreneurship, Indian Institute of Technology, Kharagpur, India.**

Interested vendors, who have adequate credential for supply of this item, are requested to send their sealed bids under a Two-Bid System of the Equipment with their Detailed Technical Specifications given at Annexure-I, General Terms & Conditions given at Annexure-II, Annexure-III and Annexure-IV. In addition, the vendor must submit a signed "declaration" form as given in Annexure-V.

The tender to be sent in a sealed packet, containing two separate sealed envelopes (one each for **Technical Bid and Price Bid**) duly superscripted **Tender No. IITKGP/RMSOEE/EQPT/18-19/17, Dated 20.12.2018** to **The Head, Rajendra Mishra School of Engineering Entrepreneurship, Indian Institute of Technology Kharagpur – 721 302, West Bengal, India.**

Tender should reach the addressee not later than the "Last date and Time" mentioned in the table below:

Tender Notice No.	IITKGP/RMSOEE/EQPT/18-19/17, Dated 20.12.2018
Price of Tender Document	Rs. 1000/- (Non-refundable, in the form of DD)
Last Date and Time for Submitting the tender document	16.01.2019 at 14:00 Hrs ( Indian time)
Time & date of Opening of Technical Bids	16.01.2019 at 15:00 Hrs ( Indian time)
Place of Opening the tender	Rajendra Mishra School of Engineering Entrepreneurship, Indian Institute of Technology Kharagpur – 721 302, West Bengal, India
Address for Communication	As stated above
Contact Telephone no	+91-3222-282414
Email	rambabu@see.iitkgp.ac.in

The technical bid will be evaluated first and price bids will be opened only in respect of those OEMs/Vendors, who are found technically qualified after evaluation of Technical bids.

  
अध्यक्ष / HEAD Head of the School  
Rajendra Mishra School of Engineering Entrepreneurship IIT, Kharagpur  
Rajendra Mishra School of Engineering Entrepreneurship  
Rajendra Mishra School of Engineering Entrepreneurship  
Rajendra Mishra School of Engineering Entrepreneurship

Copy to:

1. PIC, IIC- with a request to upload the tender document in the institute website, CPP Portal
2. Notice Board

**Detailed Technical Specifications for**  
**Inertial Measurement Unit (IMU) and Development Kit**

*Annexure-I*

Sl. No.	Item Description	Vendor's Comments		
		Qty	Compliance (Yes/No)	Specifications
1.	<p>Industrial grade miniature GNSS-aided, IMU-enhanced GNSS/INS and attitude and heading reference system (AHRS) that should provide reliable high-quality estimates of position with an accuracy 2m (Approx.), velocity with an accuracy 0.05 m/s (Approx.), acceleration and orientation (less than 1 degree).</p> <p>Velocity Complete SDK for Linux/Windows operating systems including antenna and cabling</p> <p>Should have USB interface for data transfer</p> <p>Support for robotic operating system (ROS)</p> <p>Should consume less than 1 W power at 5 V</p> <p>Sampling frequency 10KHz/Channel</p> <p>It should be mountable on a quadcopter/drone.</p>	<b>1</b>		
15.	<p><b><u>Warranty:</u></b>            Three Year Comprehensive warranty inclusive of labour and parts.</p>			

**GENERAL TERMS AND CONDITIONS**

- 1) **Last Date of Submission of Sealed Bids (both technical and price bids, separately): 16.01.2019 up to 2.00 P.M.**

*The Technical bids will be opened on 16.01.2019 at 3.00 P.M. in the Office of Rajendra Mishra School of Engineering Entrepreneurship, I.I.T. Kharagpur, India.*

- 2) **Payment Terms & Performance Bank Guarantee (PBG):** 90% payment will be made on submission of shipping documents and balance 10% payment will be made on installation, commissioning and submission of PBG for performance period if the payment is made by LC, otherwise 90% will be released after receipt of stores, successful installation and certificate from Head concerned and balance and 10% after submission of PBG for the performance period. The security deposit so retained may be refunded on submission of Bank Guarantee towards Performance Guarantee valid for **3 years throughout comprehensive warranty period plus sixty days** drawn on any commercial bank.

*No advance/mobilization support, is payable against supply of stores.*

*In the event of failure to deliver the stores beyond the specified date, liquidated damages @ 1% per month or part thereof in respect of the value of stores will be deducted, subject to a maximum of 5%; alternately the order will be cancelled and the undelivered stores purchased from elsewhere at the risk and expense of the vendor.*

- 3) **Warranty/Guarantee & On-site skill support:** **Three years onsite comprehensive OEM warranty** from the date of successful installation and commissioning. The firm has to guarantee supply of spares for a minimum period of 10 years. **The OEMs/Authorized Distributors and Dealers must attach certificate about their after sales and service facilities with Technical Bids**, escalation support for on-call service or station engineer etc.
- 4) **Earnest Money Deposit (EMD):** Not applicable.

**E.M.D. should be enclosed separately in an envelope and stapled with the Technical Bid document superscribing EMD.** The validity of the EMD should be 3 (three) months from the date of issue. **Any bid without EMD will summarily be rejected. No interest is payable on EMD.** EMD will be refunded to the unsuccessful bidder after finalization of the tender process. No interest is payable on Security Deposit. Security Deposit shall be forfeited if the selected vendor after award of contract, fails to execute the same.

- 5) **Delivery of Stores:** *The store items are to be supplied within 45 days from the date of receipt of the Purchase Order or from opening of LC whichever is later.*
- 6) **Tender Fee:** *An amount of INR 1,000 (Rupees one thousand only) as tender fee (non-refundable) is to be paid. The payment shall be made by Demand Draft from any*

*Nationalized Bank /Commercial Bank and paid in favour of “Indian Institute of Technology Kharagpur”, payable at Kharagpur. **Bids without Tender Fee will not be accepted. This should be enclosed separately in an envelope and stapled with the Technical Bid document superscribing Tender fee.***

Note: Exemption of submission of Tender fee and Earnest Money Deposit (EMD) will be considered as per Government of India rule.

**7) Price :**

*PRICE may be quoted either in INR or in foreign currency.*

*Where tenderer intends to quote in Indian Rupees (INR), the price should be quoted “FOR IIT Kharagpur “basis. The price should be all-inclusive including GST.*

*IIT Kharagpur is registered DSIR, Govt. of India. GST rate for scientific goods is 5% as per the Notification No. 47/2017-Integrated Tax (Rate) dated 14th November, 2017. Necessary certificate in this regard will be issued as per requirement and on request of the successful bidder.*

*Where tenderer intends to quote in foreign currency FCA/FOB source port price by Air/Sea to be quoted. In case of comparison between FOR IIT Kharagpur (quoted in INR) and FOB/FCA price (quoted in foreign currency) 20% will be added on FOB/FCA price after conversion to INR.*

*IIT Kharagpur is registered DSIR, Govt. of India and eligible for exemption for payment of Customs Duties in Terms of Government of India Notification No.51/96-Customs dated 23.07.96. Necessary certificate in this regard will be issued as per requirement and on request of the successful bidder.*

- (i) Agency Commission, if any will be paid to the Indian agents in Rupees on receipt of the equipment and after satisfactory installation. Agency Commission will not be paid in foreign currency under any circumstances.*
- (ii) The unit prices should be for the same unit as indicated in the Schedule to tender enquiry and not for any other unit.*
- (iii) Prices quoted should be for supply, installation and commissioning at I.I.T. Kharagpur. Discount, if any, should be indicated separately/prominently.*
- (iv) Offers should normally be on fixed and firm price basis. Any clause making price variation will not be acceptable.*

**8) Bid:** *Technical Bid and Price Bid should be submitted in two separate sealed envelopes quoting IITKGP/RMSOEE/EQPT/2018-19/17, Dated 20.12.2018 on the top of the envelope. Tender Fee and EMD should be enclosed with the Technical Bid documents, in separate sealed envelopes, stapled with the packet containing Technical Bid documents. The OEMs may either bid directly or Country/Regional/State Distributors /Dealers/Vendors, to quote authorized with valid authorization certificate, capability to sale and service of the products.*

**9) Acceptance of Tender:** *The Authority of IIT Kharagpur does not bind itself to accept the lowest priced bid and reserves the right to reject any or the entire tender bids received without assigning any reason thereof.*

**10)** *The addendum/corrigendum if any shall be published on Institute’s Website i.e. [www.iitkgp.ac.in](http://www.iitkgp.ac.in) and on CPP Portal.*

- 11) *The Bidders are requested to submit the bids after issue of clarifications only considering the changes made if any. Bidders are totally responsible for incorporating/complying the changes/amendments issued if any, in their bid.*
- 12) **Extra Features:** *If the bidder provides any other extra features on the Hardware or Software, which are not mentioned in the tender product specifications, then that, shall be highlighted in clear terms, with documentary evidence/literature.*
- 13) **Compliance List:** *The proposal should be properly indexed and a compliance list against the technical specifications should be provided.*
- 14) **Service:** *Response to ensure quality of services, the deputed Engineer from the OEM/Vendor shall have a minimum of 2 years of experience in the relevant field and must be in the payroll of the OEM/Vendor.*
- 15) **Installation and Commissioning:** *Free of cost at IIT, Kharagpur. The OEM must ensure timely installation of **Workstation and Accessories** with necessary support to the indenters, as per details and lists to be made available by the Stores & Purchase Section or the indenting Departments/Centres/Schools.*
- 16) **Validity of licenses:** *Software's licensing price or policy (if any) shall be clearly mentioned.*
  - a) *All licenses should be perpetual*
  - b) *All the accessories shall be from the same OEM*
- 15) *The OEM should be an ISO-9000 and ISO-14001 certified company with due credits to energy conservation and green earth compliance.*
- 16) **Relevant documents of the OEM shall be enclosed, along with the Technical Bid. Any explanation on this account shall be supported with documentary evidence from the principals.**
- 17) **Conditional Offer will not be accepted.**
- 18) **Period of Validity:** *Bids shall remain valid for acceptance for a period of 90 days from the date of opening of the price bid.*
- 19) *The benefit of any downward price revision (revision on account of budget/financial policy, tax revision, EPZ etc.) is to be given to IIT Kharagpur by the selected OEM/vendor.*
- 20) **Past Performance of the Vendors will be judged at the time of Technical Evaluation.**
- 21) **The Institute does not bind** *itself to offer any explanation to those bidders whose technical bids have not been found acceptable by the Technical Evaluation Committee of the Institute.*
- 22) **Bidders should** *enclose the following documents:*
  - i. *Certificate of Registration / Trade License*
  - ii. *Attested copy of PAN card and GST registration papers*

## **Annexure-II**

- iii. *Name and address of past satisfactory supplies or minimum 10 clients to whom such items/stores have been supplied should be mentioned in the technical bid.*
- iv. *The bidder must submit copy of acknowledgement of Income Tax return for last three years.*
- v. *Point by point compliance statement.*
- vi. *A copy of agency agreement entered into with the principal indicating the nature of after sales services of Indian agent, precise relationship and mutual interest in the business.*
- vii. *Signed copy of the tender document, with company seal, agreeing to the terms & conditions and declaration should be provided.*
- viii. ***Proforma Price Bid (without mentioning the price rate) may be attached with technical bids***
- ix. ***Port of Shipment and Country of origin: Should be mentioned in the quotation.***
- x. ***Purchase order to be placed on: Should be mentioned in the quotation with full address.***

23) ***All tenders are to be handed over in a sealed box in the Office of Rajendra Mishra School of Engineering Entrepreneurship, IIT Kharagpur-721302. The bids (technical and price bids) once submitted shall be the property of the Institute and shall not be returned to the vendor in future. For speed post, the Postal Address is “Office of the Rajendra Mishra School of Engineering Entrepreneurship, IIT Kharagpur-721302, West Bengal, India”***

24) ***Opening of Price Bids: The Price Bid(s) of only those vendor(s) who are found technically qualified will be opened and the same will be opened before the technically qualified vendor(s). The date for opening of price bids will be notified separately.***

25) *Tenderer or his/her authorized representative (with proper authorization letter for attending opening of technical bids and for opening of price bids) may choose to be present at the time of opening of Technical Bids/Price Bids.*

### **26) IMPORTANT**

*I. Director may accept or reject any or all the bids in part or in full without assigning any reason and does not bind himself to accept the lowest bid. The Institute at its discretion may change the quantity/upgrade the criteria/drop any item or part thereof at any time before placing the Purchase Order.*

*II. A bid submitted with false information will not only be rejected but also the OEM/ vendor will be debarred from participation in future tendering process.*

*III. In case of any dispute, the decision of the Director of this Institute shall be final and binding on the bidders.*

**Annexure-II**

*IV. For any query pertaining to this bid document, correspondence is to be addressed to the End user:*

***Rajendra Mishra School of Engineering Entrepreneurship,  
Indian Institute of Technology,  
Kharagpur- 721302, West Bengal, India  
[Ph:+91-03222- 282414]  
Email :-rambabu@see.iitkgp.ac.in***

*V. In case the due date for opening tender happens to be a holiday, the same will be opened on the next working day. The timings will however remain unchanged. Please Note that the Institute remains closed on Saturday & Sunday.*

**INSTRUCTIONS & SPECIAL CONDITIONS**

*(To be returned by Tenderer along with the Tender duly signed)*

1. **GENERAL:** *Tenderer(s), who are Indian Agents of OEMs should furnish a clear declaration as follows: We declare that I am/we are Accredited Agents of the suppliers aboard. DGS&D enlistment certificate needs to be attached (applicable only for the Indian Agents)*
  
2. **DEVIATION FROM SPECIFICATIONS:** *It is in the interest of the tenderer to study the specifications in the tender schedule thoroughly before quoting so that, if the tenderer makes any deviations, the same are prominently brought out in the body of the tender. If you need to add any optional items to your system in order to meet our specifications, you are requested to quote for the total including the option required to suit our requirements. Otherwise, your tender will not be considered at all.*
  
3. **TENDERERS SHALL SUBMIT ALONG WITH THEIR TENDER:**
  - (i) Complete address and tele links for contact persons of principals and Indian agent offices dealing with this purchase.*
  - (ii) Name and full address of the OEM's Banker and their swift code.*
  - (iii) Port of shipment and Country of origin is to be provided for each item.*
  - (iv) Purchase order to be placed on: Should be mentioned in the quotation with full address*
  
4. **PERFORMANCE BANK GUARANTEE:** *On behalf of the Principal, Indian Agent must be able to provide Performance Bank Guarantee of the amount equivalent to the 10% of the cost of equipment from any Nationalized Bank. The Performance Bank Guarantee is required for the entire period of Warranty. Performance Bank Guarantee must remain valid for a period sixty days beyond the expiry of the Warranty Period. Bid security will be refunded back on submission of performance Security.*
  
5. **GUARANTEE:** *The tenderer has to declare that the goods sold to the buyer under this contract shall be of the best quality and workmanship and shall be strictly in accordance with the specifications.*
  
6. **JURISDICTION:** *All questions, disputes, or differences arising under, out of or in connection with the contract, if concluded, shall be subject to the exclusive jurisdiction at the place from which the acceptance of Tender is issued i.e. Jurisdiction of KOLKATA HIGH COURT. Acceptance to this effect is also necessary at the time of opening of Technical Bid.*
  
7. **ACKNOWLEDGMENT:** *It is hereby acknowledged that we have gone through all the points listed under "Instructions & Special Conditions" outlined above, and those in the accompanying note on "Important Conditions", and we agree to abide by them under the penalty of permanent disqualification for Tender participation and for related penal actions for non-abidance of the conditions.*
  
8. **Interested vendors must be able to supply adequate spares and consumable during **three years of comprehensive warranty**. Vendor should also ensure trouble free service and performance for another **seven years beyond three years Comprehensive Warranty Period** with adequate spares and accessories.**

**SIGNATURE OF TENDERER ALONG WITH SEAL  
OF THE COMPANY WITH DATE**



*Annexure – IV*

**TECHNICAL BID DOCUMENT**

**FORMAT TO BE FILLED BY THE MANUFACTURERS/ INDIAN AGENTS (ON BEHALF OF THEIR FOREIGN PRINCIPALS) OR THEIR AUTHORIZED COUNTRY DISTRIBUTORS/ REPRESENTING DEALERS/ REGIONAL AGENCIES, SUBMITTING TENDER FOR SUPPLY OF WORKSTATION FOR IIT KHARAGPUR (RAJENDRA MISHRA SCHOOL OF ENGINEERING ENTREPRENEURSHIP)**

- i. *Certificate of Registration / Trade License*
- ii. *Attested copy of PAN card and GST registration papers*
- iii. *Name and address of past satisfactory supplies or minimum three clients to whom such items/stores have been supplied should be mentioned in the technical bid.*
- iv. *Copy of mandatory test reports, national testing/reliability and endurance test reports etc., certified or conducted at the manufacturing site, granted by the bureaus/quality control departments/national testing laboratories.*
- v. *Point by point compliance statement.*
- vi. *A copy of agency agreement entered into with the principal indicating the nature of after sales services of Indian agent, precise relationship and mutual interest in the business.*
- vii. *Signed copy of the tender document, with company seal, agreeing to the terms & conditions and declaration should be provided.*
- viii. ***Proforma Price Bid (without mentioning the price rate) may be attached with technical bids***
- ix. ***Port of Shipment and Country of origin: Should be mentioned in the quotation.***
- x. ***Purchase order to be placed on: Should be mentioned in the quotation with full address.***

*Certified that all above information are correct to the best of my/our information, knowledge and belief.*

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*Dated Signature & Seal of the Authorized person of OEM/Vendor*

***NOTE: This is to be submitted in a separate sealed envelope super scribing “TECHNICAL BID”, Notice inviting Tender No. IITKGP/RMSOEE/EQPT/18-19/17, Date: 20.12.2018 and name of the bidder. All technical documents like literature, catalogues etc., are to be put in the same envelope. Price bid of that company/firm only will be opened which do technically qualify, for further consideration. Attach all relevant documents in the same serial order as above, properly indexed, duly signed and sealed.***

**DECLARATION**

1. I, -----Son /Daughter of Shri -----  
----- Proprietor/Partner/CEO/MD/Director/Authorized  
Signatory of M/s. ----- am competent to sign  
this declaration and execute this tender document.
2. I have carefully read and understood all the terms and conditions of the tender and hereby  
convey my acceptance of the same.
3. The information/ documents furnished along with the above application are true and  
authentic to the best of my knowledge and belief.
4. I/we am/are well aware of the fact that furnishing of any false information/ fabricated  
document would lead to rejection of my tender at any stage besides liabilities towards  
prosecution under appropriate law.
5. Each page of the tender document and papers submitted by my Company is authenticated,  
sealed and signed, and I take full responsibility for the entire documents submitted.

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Signature of the Authorized Person

Date: ----- Full Name: -----

Place: ----- Company Seal: -----