

## **INTER - UNIVERSITY ACCELERATOR CENTRE**

( An Autonomous Centre of UGC )  
Aruna Asaf Ali Marg, New Delhi - 110067

### **NOTICE INVITING E - TENDER**

**Tender Number : IUAC/NIT/52R/PB/2019-2020**

**Dated : 01/04/2020**

Inter - University Accelerator Centre (IUAC) invites online bids through e-procurement Portal under two bid system, viz., Technical and Financial bids, from eligible / experienced parties for the work/supply of **"UHV Compatible Motorized Double Slit with controller " as per Annexure A "**.

Tender Documents may be downloaded from Central Public Procurement (CPP) Portal <https://eprocure.gov.in/eprocure/app>. Aspiring Bidders who have not enrolled / registered in e-procurement portal should enroll / register before participating through the website <https://eprocure.gov.in/eprocure/app>. Bids should be submitted online only at website: <https://eprocure.gov.in/eprocure/app>. Tenderers / Contractors / Bidders are advised to follow the instructions provided in the e-procurement portal. Bid documents may be scanned with 100 dpi with black and white option which helps in reducing size of the scanned documents.

Only bids received through e-procurement portal will be considered for opening. Bids not covering full scope of work/supply of the products/goods will be rejected and only complete bids will be considered. IUAC reserves the right to accept / reject any / all tenders in part / full without assigning any reasons whatsoever, and the decision of IUAC in this regard will be binding on all the bidders.

Bidders have to select the payment option as **"offline"** to pay the tender fee and EMD as applicable. The Earnest Money Deposit (EMD) and tender cost shall be in the form of demand draft issued in favour of **"Inter University Accelerator Centre, New Delhi"** and it should be deposited at IUAC before the bid opening. Bidders registered with MSME / NSIC and foreign bidders quoting directly are exempted from payments of EMD and tender fee. Copy of valid registration certificate should be uploaded in the website <https://eprocure.gov.in/eprocure/app>.

Bidders are advised 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 .XLS BOQ Format with the tender document, then the same is to be downloaded and to be filled and submitted online without modifying the format. **If the BOQ file is found to be modified by the bidder, the bid will be rejected.**

Any Corrigendum / Amendments in respect of above tender shall be issued on website <https://eprocure.gov.in> only. Bidders should take into account any corrigendum published on the tender document before submitting their bids.

#### **Prequalification of the bidder**

Only Original Equipment Manufacturer (OEM) or their authorized (sales and service) representatives are eligible to quote. The authorized representatives shall have to submit the certificate of authorization from the OEM along with the BID.

## E - TENDER DOCUMENT

|  |   |
|--|---|
| Name of Work / Supply  | <b>UHV Compatible Motorized Double Slit with controller as per Annexure A</b>   |
| Tender Number  | IUAC/NIT/52R/PB/2019-20   |
| Tender Value / Estimate only                                 | Rs. 10,00,000/- (Ten lakhs)   |
| Earnest Money Deposit  | Rs. 20,000/- (Twenty thousand)  |
| Tender Document Fee  | Rs. 500/- (Five hundred)  |
| Bid Submission End Date and Time<br>(Part - A and Part - B ) | 23/04/2020 at 03:00 P.M.  |
| Technical Bid Opening Date<br>( Part - A )                   | 24/04/2020 at 03:30 P.M.  |
| Price Bid Opening Date<br>( Part - B )                       | To be intimated later on to the technically qualified bidders   |
| Contact Person   | Administrative Officer (S&P)<br>E-mail: <a href="mailto:joseph@iuac.res.in">joseph@iuac.res.in</a><br>Pradip Barua<br>e-mai: barua123@gmail.com<br>Phone: 011-24126018, 24126022. |

### General Terms and Conditions of the Tender :

**1) Submission of Tender :**

Tenders should be uploaded on CPP Portal in two parts, i.e., Technical Bid (Part - A) and Price Bid / BOQ (Part - B).

**2) Technical Bid ( Part - A ) :**

In this bid, the bidder should upload the following documents. No deviations in respect of NIT conditions are acceptable.

- a) The bidders are required to upload Tender Acceptance Letter (written on company letter head, duly signed and stamped. ) as per format provide in **Annexure - B**, as a token of acceptance of the NIT conditions, with this bid.
- b) Copies of successfully executed similar (in application, precision and specification) work orders (minimum one orders of value not less than Rs. 5 lakhs) for reputed laboratories / institutes in India / abroad during the last five years.
- c) Details of the product being supplied should be attached to certify compliance of technical specification of this tender.
- d) Complete drawings, working principle, test results, catalogues and other technical specifications of the quoted products indicating its ability to meet the **Scope of supply and technical specifications as per Annexure-A & attached drawing**.
- e) Only Original Equipment Manufacturer (OEM) or their authorized (sales and service) representatives are eligible to quote.

The authorized representatives shall have to submit the certificate of authorization from the OEM along with the BID.

**Technical bids which are not confirming to the technical specifications will be disqualified.**

**Scope of work :** As per the technical specifications and other details given in Annexure A.

**3) Price Bid / BOQ ( Part - B ) :**

In this bid, the bidder is required to quote unconditional rates in appropriate currency in the .XLS BOQ format provided with this tender.

The Indigenous suppliers quoting in INR should quote the rates all-inclusive up to IUAC and excluding GST. IUAC is exempted from Customs Duty and GST and necessarily certificates shall be issued by IUAC.

The BOQ file must not be modified.

**4) Earnest Money Deposit:**

An earnest money of Rs 20,000/- (Rupees twenty thousand only) has to be submitted at IUAC before opening the bids. The EMD shall be only in the form of bank draft payable to Inter - University Accelerator Centre payable at New Delhi. Tender without EMD will be rejected. **Bidders registered with MSME / NSIC and foreign bidders quoting directly are exempted from payments of EMD and tender fee.** Copy of valid registration certificate should be uploaded.

EMD of technically disqualified bidders will be returned within 15 days from the date of evaluation of the technical bids. The refund of EMD to the unsuccessful bidders shall also be returned within 15 days from the date of opening of price bid. The EMD of the successful bidder (L1) shall be held back as security deposit and will be released only after successful completion of the works/supply.

**5) Validity of Tender:**

Tender shall be valid for our acceptance without any change in the rates and NIT conditions for a period of 90 days from the date of opening the price bid. No escalation of cost will be acceptable in any condition after opening of tender.

**6) Escalation / Deviation :** No escalation or deviation shall be allowed till execution of order / contract.

**7) Terms of Payment :**

90% payment will be released through Letter of Credit against the complete shipping documents and remaining 10% payment will be released against a Performance Bank Guarantee of equal amount valid for a period of 12 months.

**For Indigenous Supply:** 90 % payment will be released after delivery of material at IUAC and remaining 10% payment will be released against a Performance Bank Guarantee of equal amount valid for a period of 12 months.

**8) Guarantee/Defect liability period:**

The supplied material should guarantee for the manufacturing / engineering defect and bad material/workmanship for a minimum period of 1 (one) year from the date of acceptance of the goods by IUAC. During this period if any replacement of item, repairs/rectification etc. is needed, the supplier shall do the same free of cost to IUAC.

**9) Delivery Period:**

The material should be supplied within 150 days from the date of issue of LOI/Purchase order. Any delay in completion of the work/supply due to reasons attributable to the vendor / manufacturer is

liable to liquidated damages as per clause 11 of this NIT. However, under the force-majeure conditions as per clause 12 of NIT, IUAC may grant suitable time extension for which vendor has to request along with the justification / reasons well in advance to the Director, IUAC for approval without any prejudice or price escalation.

**10) Liquidated damages:**

In case the delivery of the listed items is delayed beyond the specified delivery period for reasons attributable to the supplier, deductions on account of liquidated damages @ 1% per week subject to maximum of 10 % of the total order value will be deducted.

**11) Force Majeure:**

IUAC may grant an extension of time limit set for the supply items in case it is delayed by force majeure beyond the supplier's control. Force majeure is defined an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, tsunami etc.), the direct and indirect consequences of wars (declared or undeclared), national emergencies, civil commotions and strikes (only those which exceeds a duration of ten continuous days) at successful Tenderer's factory. Apart from the extension of the time limit, force majeure does not entitle the successful tenderer to any relaxation or to any compensation of damage or loss suffered. The decision of the Director, IUAC will be final and binding for the bidder.

**12) Correspondence :**

All the correspondence in respect of tender / contractual obligation shall be made to The Administrative Officer (S&P), Inter University Accelerator Centre, Aruna Asaf Ali Marg, New Delhi - 110067. E-mail : joseph@iuac.res.in, Phone : +91-11-24126018, 24126022.

**13) Tender Rejection :**

- (a) IUAC reserves the right to accept/reject any/all tenders in part/full without assigning any reason whatsoever and the decision of the IUAC in this regard will be binding on all the bidders.
- (b) Bids received by means other than e - procurement portal will be rejected.
- (c) Only complete bids will be considered and incomplete bids will be rejected.
- (d) If BOQ file is found to be modified by the bidder, the bid will be rejected.
- (e) Tenders not complying with any of the provisions stated in this tender document are liable to be rejected.
- (f) If the General Terms and conditions are not accepted and not signed by the bidders, then the tender will be rejected.

**14) The contract shall be governed by the Indian Laws. Any dispute arising out of this contract will be subjected to jurisdiction of New Delhi / Delhi.**

Accepted

(Signature of Bidder )

## Annexure – A

### **Introduction**

The tender is floated to procure a **UHV Compatible Motorized Double Slit with controller** for control of ion beams in particle accelerator at IUAC. It should have four motorized jaws ( a pair each for X-X axis and Y-Y axis) and four ports for collecting the slit currents. It should be a complete unit with all controllers/software/accessories required for its normal operation. The major dimensions of the unit should be as per attached drawing **IUAC/AK/23012020\_01 & 02** and required technical specifications are as given below.

### **List of Items:**

| S.No | Part Description                                     | Quantity |
|------|--|----------|
| 1    | UHV Compatible Motorized Double Slit with controller | 1        |

### **Technical specifications**

| <b>Slit Housing/ Slit Jaws/ Linear Motion for Motorized Double Slit</b> |   |
|---|---|
| 1.1   | The double slit assembly should be as per attached drawing <b>IUAC/AK/23012020_01 &amp; 02</b> .  |
| 1.2   | Linear travel range of each slit jaw should from 0 mm to 15 mm ( $\pm 1$ ). The jaws during IN-OUT operating should not interfere with the movement of other jaws.  |
| 1.3   | Linear motion of slits should be motorized, bellow sealed and travel range as mentioned at point 1.3. Adjustment resolution of the drive should be $\leq 30$ microns.   |
| 1.4   | Repeatability of the position of the jaw should be within 50 microns.   |
| 1.5   | Leak rate of the complete assembly should be better than $2 \times 10^{-10}$ mbar L/s.  |
| 1.6   | The assembly should be UHV compatible for working vacuum of $2 \times 10^{-10}$ mbar.   |
| 1.7   | Power Rating = 50 watt per element (per jaw element )   |
| 1.8   | Jaw Element material should be Tantalum, size & thickness as per drawing. Element should be insulated from motion arms using ceramic insulators. Electrical connection between the slit element & the corresponding BNC / MHV feed through should be made by a spring type wire.  |
| 1.9   | Housing of the Double Slit should be SS 316 / SS304, and other components exposed to vacuum should be UHV compatible.   |
| 1.10  | Slit housing should be 4 inch OD with CF100 flanges. Entry flange should be rotatable. 4 Nos. ports of DN 40 CF-R for mounting slits and 4 Nos. ports of DN16 CF along with 4 Nos. BNC/ MHV feed through on CF16 Flange to measure beam current.  |
| 1.11  | Slit motions with precision motorized drives mounted on CF35 Ports.   |
| <b>Controller for Motorized Double slit</b>                             |   |
| 1.12  | Should be 19 inch rack mountable and power input of 240 volt/50 Hz AC. There should be separate individual control and connection for each Slit jaw (4-Channel controller).   |
| 1.13  | The controller should work in remote control mode (local control mode, if available should be also be given as an option) .   |
| 1.14  | Remote Interface should be either Ethernet based with a test program having linux operating system support <b>or with following option:-</b> <ul style="list-style-type: none"><li>➤ 0-10 VDC input to position slit jaw, 0V corresponds to the one of the extreme position of slit jaw from slit flange.</li><li>➤ 0-10VDC output to read the actual position of the slit jaw.</li></ul> |

Name & Signature of Tendere

Company with Seal

**TENDER ACCEPTANCE LETTER**

(To be given on Company Letter Head)

Date:

To,  
A.O. (S & P)  
IUAC, New Delhi-67

**Sub: Acceptance of Terms & Conditions of Tender.**

**Tender Reference No: IUAC/NIT/52R/PB/2019-2020**

Name of Tender / Work: - UHV Compatible Motorized Double Slit with controller as per Annexure A.

Dear Sir,

1. I/ We have downloaded / obtained the tender document(s) for the above mentioned Tender /Work' from the web site(s) namely:

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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/ organization 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 do hereby declare that our Firm has not been blacklisted/ debarred by any Govt. Department/Public sector undertaking.
6. 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)