

Subject: Tender Notice

It is submitted that sealed tender is invited from reputed manufactures/suppliers for the supply of following equipment required in Dr. APJ Abdul Kalam Central Instrumentation Laboratory:

- | |
|--|
| 1. Field Emission Scanning Electron Microscope (FESEM) |
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The tender document having detailed specification may be obtained either from CIL may be downloaded from the University website [www. gjust.ac.in](http://www.gjust.ac.in) for which a demand draft of Rs. 300./- per tender document drawn in favour of the Registrar, GJUS&T and payable at Hisar is to be submitted with technical bid itself. Technical and Financial bids should be submitted separately with full name of the equipment on the envelop. The tender complete in all respect must reach Director, Dr. A.P.J. Abdul Kalam Central Instrumentation Laboratory(CIL), GJUS&T, Hisar on or before 10.01.2019 at 3:00 PM. The bidders/representative may remain present at the time of opening of tenders at their own cost.

TENDER NOTICE FOR EQUIPMENTS

**DR. APJ ABDUL KALAM CENTRAL INSTRUMENTATION LABORATORY
GURU JAMBHESHWAR, UNIVERSITY OF SCIENCE & TEHNOLOGY,
HISAR-125001, HARYANA**
(Phone: 01662-263352, 263358)

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**GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY
HISAR-125001**

Tender For Supply of Equipment(s)

To

Subject: Invitation for tender for supply of equipments.

Dear Sir (s),

You are invited to submit your most competitive tender for the following equipment (s) with the following terms and conditions:-

A. SCHEDULE OF EVENTS :-

1. TENDER NO.* : **CIL/2018 /FESEM**
2. TENDER FLOATING DATE : **24.12.2018**
3. TENDER SUBMISSION CLOSING DATE & TIME : **10.01.2019 at 03:00 PM**
4. TENDER OPENING DATE & TIME : **10.01.2019 at 03:30 PM**
5. VENUE FOR TENDER SUBMISSION & OPENING :
Submission: Director, Dr. A P J Abdul Kalam Central Instrumentation Laboratory,
GJUST, Hisar
Opening: Committee Room, Vice Chancellor's Office/CIL, GJUST, Hisar.
6. PRE-BID CONFERENCE (IF ANY) : No
DATE, TIME AND VENUE
Committee Room, Vice Chancellor's Office, GJUST, Hisar
7. TENDER DOCUMENT COST : Rs. 300/-
* Tender number must be mentioned in all correspondence.

B. BRIEF DISCRIPTIONOF TENDER DOCUMENT:-

This tender document consists of four parts namely:

1. **Brief description of the equipment(s):-**
It mentions the name of the equipment required and its quantity. The quantity is subject to increase and decrease, at the discretion of the indenter.
2. **Technical data sheet (technical specifications of the equipment):-**
It contains the technical details / specification of the equipment. It should be submitted in a separate sealed envelope marked as "Technical Bid". Bids having deviation in technical specification will be declared as "technically non-responsive" and it will not be considered for commercial evaluation.
3. **Commercial Data Sheet:-**
This format deals with the commercial aspect of the tender. The bidder should quote the basic/ex-works rate of goods and other over head charges only in his format.
4. **General / standard Terms and conditions:-**
This portion contains the general/standard terms and conditions of the tender and its compliance is essential, failing which the contract may be cancelled and bidder may be liable for penal action against it.
5. **Special Terms and conditions:-**
It contains special terms and condition which may be in addition to / in super-session of the referred "General / Standard Terms and conditions" and its compliance is also compulsory in the same manner, as in the case of the General / Standard Terms and conditions.

C. EQUIPMENT DETAILS:

1. Brief description of the equipment name :-

Name of Equipment(s) Qty. Required

High Resolution Field Emission Scanning Electron Microscope with EDS - 1No.

2. Technical data sheet (Technical specifications of the equipment) :-

Sr. No.	Description of the Equipment (s)	Technical Specifications
1.	High Resolution Field Emission Scanning Electron Microscope with EDS - Imported	ANNEXURE- I

3. Commercial Data Sheet:-

Format of Tender – Price/commercial bid

TENDER NO & DATE: -----

A.BASIC/ EX -WORKS PRICE.

Sr. No.	Brief Description of the Equipments/ Software	Specifications	Quantity	* Cost per Unit	* Total Cost

*** SPECIFY CURRENCY**

B Over Head Charge (Taxation etc.)

Sr. No.	Nature of Overhead Charges(Tax/insurance/freight etc.)	Rate	Total amount (Rs)

Total A +B = Rs ----- (in words Rs.....)

We agree to supply the above Equipments/software in accordance with the above technical specifications for a total contract price referred as above, with in the period specified in the Invitation for Tender. We also confirm that the normal commercial warranty/guarantee of as per tender document shall apply to the offered Equipments/ Software.

Signature of Supplier with seal
 Correspondence address of the company
 With phone, Fax, and E-mail and
 Name & address of contact person
 Place and Date

4. General/Standard Terms and Conditions of the Tender:-

1 Two Envelope Bid :-

The tender is to be submitted on two envelope bid pattern i.e. “Technical bid” and “Price/commercial bid” in separately sealed envelopes. Both of these envelopes should be put in and sealed in another envelope addressed to Director, Dr. APJ Abdul Kalam Central Instrumentation Laboratory, Guru Jambheshwar University of Science & Technology, Hisar-125001 (Haryana), India and super-scribed in bold as **“TENDER FOR SUPPLY OF HIGH RESOLUTION FIELD EMISSION SCANNING ELECTRON MICROSCOPE WITH EDS”**.

The “Technical bid” should mention only the technical details of the item/equipment. Price per unit be mentioned only in the **“Price/commercial bid format”**.

2. Bid Signing:-

The Tender must be signed by authorized signatory of the bidding firm/company on each page, along with seal of the firm/company, as the case may be.

3. Conditional Bid:-

Conditional Bid is not acceptable. Hence, the supplier is advised neither to alter the specifications nor to mention anything on the Tender form, except cost, signature with seal, otherwise his Tender will not be considered.

4. Delivery Destination:-

The Tender should be quoted as FOR GJUS&T, Hisar. The transient insurance and freight charges etc, if any, needs to be mentioned separately of the basic/ ex- works price of the quoted item.

5. Delivery Acceptance:-

The delivery of the material will be handed over to the authorized official of the concerned indenting department/office, however, the goods will be deemed to accept subject to the approval of the inspection committee of GJUS&T. In case of rejection of the consignment, the supplier should immediately remove the consignment from the university premises failing which it will remain there at the risk and responsibility of the supplier and university will not be responsible for any kind of liability in this regard.

6. Delivery Period:-

The supply is to be made within 30 days of the date of dispatch of the supply order. However, in case of imported goods this time limit will be 60 days, instead of 30 days.

7. Delivery Period Extension:-

The supply order(s) shall be executed within the time specified in this regard. However, in case of Force Majure / reasons beyond control of the supplier, he may make a written request to the Vice-Chancellor for grant of extension for delivery period. The written request in this regard should clearly spelling out such reasons.

The Vice-Chancellor, if he is satisfied of such reasons and further that the requested extension will not be detrimental to the interests of the university, may grant extension for a reasonable period for delivery of the goods. The supplier would be required to indemnify the university against any loss on account of downfall of the price during the extended period.

8. Penalty for delayed supply:-

In the event of the delayed supply, if accepted, the Registrar will be competent to impose penalty @ 1% per day of the purchase order, provided that the entire amount of penalty shall not exceed 10% of the total amount of Purchase order. The supply will be deemed to be complete on the day when 100 % supply is handed over to the indenter (in case of

supply in installments) and its installation is done. An appeal against these orders shall, however, lie to the Vice-Chancellor whose decision shall be final.

9. EMD forfeiture:-

In case of the contractor backs out the supply, the earnest money deposited by him shall be forfeited. Apart from it, he will be liable for any other action against him, as may be considered necessary by the Vice-Chancellor.

10. Rejection of incomplete tenders;_

Incomplete Tender such as unsigned Tender, late submitted Tender, conditional tender, not confirming to the eligibility criteria and Technical specification or with any vague term such as 'Extra as applicable' will be considered as rejected.

11. Quantity Variation :-

The quantity shall be subject to increase or decrease as the case may be.

12. Manual/literature:-

The detailed literature/catalogue of the quoted instrument and its accessories should also be attached with the tender. The specifications claimed by the firm should be clearly mentioned in the literature/catalogue also. Its manual should also be supplied with the equipment.

13. Taxation:-

Taxes/Excise duty/Custom duty etc. should be quoted independent of the ex-works price of the item and it will be paid as applicable under Government rules, if so quoted by the Supplier in the tender, subject to the certificate in the bill of costs as follows. However, wherever exemption from duty (excise/custom duty) is applicable, the university will provide the exemption certificate, along with supply/purchase order itself.

In case of imported goods the custom clearance is to be arranged by the supplier at his own. Charges, if any, in this regard, however, need to be mentioned accordingly in the quote itself. University will provide necessary documents for this purpose. In case the quote is silent with regard to taxation and clearance charges etc, no such charges will be paid by the university.

14. Right to Bid rejection:-

The University reserves the right to reject any or all offers without assigning any reason.

15. Packaging of Consignment:-

The material should be packed in a strong case so as to avoid any damage, theft or pilferage in the transit, in which case the responsibility shall be that of the supplier.

16. Warranty :-

The warranty should not be less than 12 months from the date of installation of the equipment.

17. Performance Warranty :-

Before release of the payment, the successful bidders will be required to submit a performance warranty in form of bank guarantee equal to 10% of the purchase order for the warranty period of the Equipments.

In case of imported goods requiring opening of LC or advance copy of the draft, the bank guarantee on account of performance warranty, having validity for warranty period plus 4 months, should be submitted before issuance of the purchase order by the indenter. If required, its validity will be got suitably extended by the supplier before release of his EMD.

18. Payment :-

The payment will be made within 30 days of the successful installation and its inspection and further after the on-site training imparted, if it is the requirement of the tender document.

19. Currency:-

The rates are quoted in Indian Currency (I N R). However, in case of imported item it may be quoted in foreign currency where in the date of floating of tender will be taken as the conversion date for bid evaluation and comparison purpose

20. Earnest Money Deposit(EMD) :-

The earnest money of the amount, as per the slab given below, in the form of bank draft payable at Hisar and drawn in favour of the Registrar, Guru Jambheshwar University of Sc. & Tech. Hisar or a irrevocable bank guarantee, will be required to be remitted with the tenders. **EMD should be enclosed with Price bid and the same should be indicated in the Technical bid also.**

21. Arbitration :

In case of any dispute both the parties will be bounded by the decision of the Vice-Chancellor, GJUS&T, Hisar, as the arbitrator.

22. Jurisdiction :-

All disputes shall be subject to Hisar jurisdiction.

EMD Slab:-

<u>Sr. No.</u>	<u>Contract Value</u>	<u>Earnest Money</u>
1.	Rs. 300001 to 500000/-	Rs. 20000/-
2.	Rs. 500001 to 1000000/-	Rs. 40000/-
3.	Rs. 1000001 to 2000000/-	Rs. 70000/-
4.	Above Rs. 20 Lacs	Rs. 100000/-

Director,
Dr. A P J Abdul Kalam Central Instrumentation
Laboratory, GJUST, Hisar

The terms & conditions of tender have been read and I/We certify that I/We clearly understand the same and undertake for its compliance

Place: -----

Signature of authorized representative
of the bidding firm/company with seal.

Dated: -----

(Affix Rubber Stamp of the firm)

5. Special Terms and Conditions

1. If the equipment is not manufactured by the bidder, authorization of the manufacturer to the bidder for marketing and servicing of the equipment in India should be enclosed along with technical bid of the tender.
2. The detailed literature/catalogue of the quoted instrument and accessories should be attached with the tender. The specifications claimed by the firm should be clearly mentioned in the literature/catalogue.
3. The firm should agree to supply the spare parts/software, etc. for at least five years.
4. Please quote the AMC/CMC rate for at least four years after warranty period.
5. Free upgradation of software for at least for five years after warranty period.
6. The instruments and accessories will be installed completely in Dr. A P J Abdul Kalam Central Instrumentation Laboratory, GJUST, Hisar by the successful bidder. It is also necessary to provide training for lab./technical personnel including trouble shooting etc. and also presentation and demonstration to research scholars, teachers and technician/lab. attendant on instruments.
7. In case of short supply or wrong supply of equipment, its parts or accessories or supply of items in damaged conditions, it is the responsibility of the bidder to arrange for the supply of the required items in working condition as per the purchase order, within the period specified for instrument. Any additional expenditure, whatsoever, for the above will be borne by the bidder only.
8. Payment: In case of imported items, option of payment through L.C. or thorough draft or as decided by the university.
9. The successful bidders will be required to submit a performance warranty in form of bank guarantee equal to 10% of the purchase order for the warranty period of the Equipment at the time of successful installation.

Director,
Dr. A P J Abdul Kalam Central Instrumentation
Laboratory, GJUST, Hisar

I hereby accept all the terms and conditions.

Authorized Signatory
with date and office seal

Note: Please submit it along with tender.

GURU JAMBHESHWAR UNIVERSITY OF SCIENCE & TECHNOLOGY, HISAR

TENDER NO & DATE: -----

**TECHNICAL SPECIFICATION / TECHNICAL DATA SHEET
OF THE EQUIPMENT/ITEM REQUIRED.**

Sr, No.	Name of Instruments and its technical specifications	
	High Resolution Field Emission Scanning Electron Microscope with EDS	
1.	Resolution	0.8 nm or better@15KV & 1.0nm or better @1KV.
2.	Electron Gun	Schottky Emitter .Electron emitter The filament should be covered in the warranty period, as many filaments required in the warranty period has to be supplied free of cost as and when required
3.	Magnification	X25 to x10,00,000
4.	EHT	Lower limit :100V or less, Higher limit:30KV or higher all the KV settings must be software controlled
5.	Chamber	Large chamber with at least 10 accessory port.
6.	Stage	5 axis motorized eucentric stage with motorized stage movements equivalent to or better X=100mm or more Y=80mm or more Z=40mm or more Tilt=-3-70° R=360° FESEM to be provided with an Air lock specimen Exchange chamber for fast simple exchange
7.	Electron Optics	Beam Deceleration/Beam Booster technology/Gentle Beam technology or equivalent for high resolution imaging at low KV. The system must have Magnetic/Electrostatic objective/Super hybrid lens or equivalent lens assembly for high resolution imaging of magnetic materials with shorter working distance. The lenses must be water cooled in nature, and apertures must be motorized. Desired features: <ul style="list-style-type: none"> • FESEM should have energy filter Secondary & Back scatteredelectrons signals • FESEM supplier must guarantee the stability of probe current • Full screen of Live image should be possible • Four simultaneous live images should be possible • Images can be stores in JPG, TIFF, BMP format • FESEM should have a recipe feature • FESEM should have a provision of Liquid Nitrogen trap/ anti contamination facility, to prevent contamination.
8.	Probe Current	200nA or higher
9.	Detectors	a) Chamber SEI detector. b) In-Lens SEI detector/In column detector or equivalent detector for high resolution imaging in High Vacuum. c) BSD detector. Optional: In Lens BSE
10.	User Interface	Keyboard, Mouse, Control Panel with multifunction for the control and adjustment of frequently used SEM parameters, Manual Joystick control for stage axis.
11.	Display	1 No. 23" or more Monitors for FESEM
12.	Vacuum System	Suitable vacuum system having ion pump, Turbo Pump & R.P.
13.	Accessories	a) High resolution colour printer. b) Chiller. c) Compressor.

		<p>d) Infrared chamber scope(IRCCD) e)Control panel for adjustment of various SEM functions like focus, mag etc f) Interface between SEM and EDS. g)Joystick for stage motor control h)Gold coater with a Typical ultimate vacuum with extra Gold Target j) 5 nos of carbon tape. k) CPD –Critical Point dryer for biological sample. l) Suitable UPS with 1hour backup including batteries.</p>
14.	EDS	Peltier cooled (LN2) free SDD detector with minimum resolution 129 eV with Quantitative, Qualitative analysis, mapping .Phase mapping, Line scan capabilities, standard sampler for calibration should be provided with detector area 30mm2 or more. Detection from B (5) to U (92).
15.	Warranty	<p>-Warranty for 2 years for entire system. -Additionally provide AMC charge on per year basis for 03 years after completion of two years warranty. -Additionally provide CMC charge (including parts & Labour) on per year basis for 03 years. -Bidder has to provide a new “Schottky Emitter” as and when required by GJU within a period of 03 year from date of installation. It should be free of charge.</p>
16.	Delivery	Supplier has to deliver the consignment to GJUS&T, Hisar, the insurances of the system should be from factory warehouse to GJUS&T, Hisar. The offered price should inclusive of Customs clearing charges, Local transportation to GJUS&T, Hisar and insurances charges up to GJUS&T, Hisar. GJUS&T, Hisar will only provide necessary documents for clearing, (like duty exemption certificate, authorization etc), road permit and Customs duty at per actual.
17.	Manpower (optionally)	<p>The vendor should provide a skilled manpower for operating the system, the manpower will work as employee of the Vendor, GJUS&T will not have any legal, financial liability of the operator. Provide the year’s wise breakup of the cost in INR.</p> <p>Please note the party should have at least 15 FESEM installations across the country for last 10 years. All the features (resolution, stage size, etc) should be available globally.</p>
18.	Practical Demonstration	GJUS&T can ask for practical demonstration of the quoted FESEM Model as the part of technical evaluation procedural. Bidder will have to arrange for the demonstration within India.

HISAR
DATED;

Director,
Dr. A P J Abdul Kalam Central Instrumentation
Laboratory, GJUST, Hisar

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BIDDER'S ACKNOWLEDGEMENT

I UNDERTAKE TO SUPPLY THE EQUIPMENT / ITEM AS PER ABOVE TECHNICAL SPECIFICATIONS

PLACE:
DATED :

(SIGN WITH SEAL OF THE BIDDER)