



MADURAI KAMARAJ UNIVERSITY
(University with Potential for Excellence)
School of Physics
Madurai-625 021, India

Sealed tenders are invited for the supply, installation & commissioning of following scientific equipments

1. UV excitation (He – Cd Laser, power meter)
2. Coupling optics external UV laser grating blazed at 330 nm edge and interference filters UV objective
3. Mapping and depth profile accessories.

Tender documents can be obtained from the undersigned. Further they can also be downloaded from www.mkuniversity.org

The cost of tender document : Rs.2,600/- (2,500 + 4% VAT)

The last date for submission of the tender : 29-02-2012 Time :3.00 p.m

Opening the tender : 01-03-2012 Time : 11.00 a.m

Madurai-21

14.02.2012

Prof. V.Ramakrishnan,
Principal Investigator,
DST Research Project,
School of Physics
Madurai Kamaraj University,
Madurai-21

Technical specifications

1. Specifications for He-Cd laser

Wavelength	: 325 nm
Output Power	: ~25 mW
Mode	: TEM ₀₀
Longitudinal Mode Spacing	: ~150 MHz
Coherence Length	: ~10 cm
Polarization	: Linear, Vertical (preferable)
Peak-to-Peak Noise	: 15%
Pointing stability	: <30 μ rad
Noise (r.m.s)	: < 4%
Beam Diameter (1/e ²)	: ~1.5 mm
Beam Divergence	: < 1 mrad
Operating temperature	: 10°C – 40 °C
Operating Humidity	: 90% non condensing
Cooling	: Forced air
Electrical Characteristics	
I/O voltage	: 220Vac \pm 10%
I/O frequency	: ~60 Hz, single phase

2. Specifications for Coupling optics external UV laser, grating blazed at 330 nm, edge and interference filters UV objective

Up gradation of existing LabRAM HR 800 Spectrometer

- i) Column with adequate coupling optics for transferring 325 nm laser beam from a He- Cd laser to the LabRAM 800
- ii). 2400 gr/mm holographic grating blazed at 330 nm to be positioned in the spectrograph of LabRAM 800
- iii). A pair of interference and dielectric edge filters at UV laser line (325 nm) for Raman spectral data in the region of 400 – 4000 cm⁻¹.
- iv). UV objective with numerical aperture of 0.50 and WD of 1 mm
- v). Accessories for PL measurements (micro/macro) upto 1500 nm

All the above mentioned spare parts must be compatible to our existing LabRAM HR 800 Raman spectrometer.

3. Specifications for Mapping and depth profile accessories

Up gradation of existing LabRAM HR 800 Spectrometer

- i). XY motorized stage with X=75 mm, Y=50 mm having a step size of 0.1 μm
Controller, joystick, computer interface card and software to acquire Raman spectral data on the automated positions.
- ii). Z stage with a step size of 0.5 μm which is controlled by joystick or software

All the above mentioned spare parts must be compatible to our existing LabRAM HR 800 Raman spectrometer.

Cost Rs.2,600/- (Rs.2,500 + VAT 4%) only

TENDER FORM-A

Technical Bid

Date:

Description of Item: **SUPPLY, INSTALLATION & COMMISSIONING OF**
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Consignee: Prof. V.Ramakrishnan, Principal Investigator, DST Research Project, School of Physics, Madurai Kamaraj University, Madurai-625 021,
Place of Commissioning: School of Physics, Madurai Kamaraj University, Madurai-625 021, India

From

M/s.

To

Prof. V.Ramakrishnan,
Principal Investigator, DST Project
School of Physics, Madurai Kamaraj University,
Madurai – 625 021, Tamilnadu, India.

Sir,

With reference to your Tender Notice dated, we offer our technical and commercial bid for the supply, installation and commissioning of following equipment

Sl.No.	Name & Description of the Equipment	Qty

Sl. No.	Details of Payment	D.D. No. & Date	Name of the Bank & Place	Amount Rs.
1.	Cost of Application			2,600/- (2,500 + 4% VAT)
2.	EMD			

Authorized Signatory *

Name:

Designation:

Note:

- i) If required, separate sheets may be added to give more technical details of equipments details. These should be on the letter heads of tenderer duly stamped and signed.
- ii) The Demand Draft for cost of application and EMD(1% of the total cost of the equipment) should be enclosed with Technical Bid cover.
- iii) * Authorized signatory should be the same at all places in the Tender/Offer.

TENDER FORM – B

COMMERCIAL BID

FOR THE SUPPLY, INSTALLATION & COMMISSIONING

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Name of the Company/Firm :

Address :

Phone/Fax Numbers/E-mail ID :

Name of Indian representative :

Address :

Phone/Fax Numbers/E-mail ID :

Price of the system conforming to
required specifications* :

Date:

Signature with seal of the authorized person of the Firm

- Prices of the main system and of different accessories must be quoted separately; insurance, air-freight charges upto Madurai, warranty period, mode of payment should be mentioned.

MADURAI KAMARAJ UNIVERSITY

(University with Potential for Excellence)

GENERAL INSTRUCTIONS, TERMS AND CONDITIONS

FOR SUPPLY , INSTALLATION & COMMISSIONING OF SCIENTIFIC EQUIPMENT

1. The tender schedule is not transferable and it should be used only by the tenderer to whom it is officially issued.
2. The tender documents can be downloaded from the University web site www.mkuniversity.org. The document cost i.e. Rs.2,600/- (2,500 + 4% VAT non-refundable) must be made by the tenderer by way of crossed Demand Draft drawn in favour of Prof. V.Ramakrishnan, Principal Investigator, DST Research Project, School of Physics, Madurai Kamaraj University, Madurai 21 payable at Madurai along with tender submission document.
3. The tenderer has the option of sending the offer by Registered post or by Speed post or by courier so as to reach by the date and time indicated. **The last date for receipt of filled in tender document is 29.02.2012 at 03.00 p.m and the Opening of the tender is 01.03.2012 at 11.00 a.m** This University will not be responsible for any postal or other transit delay in receipt of the tender offer.
4. **A single stage, two-envelope (Technical Bid and Price Bid envelopes) bidding procedure will be followed.**
5. In addition to the hard copy of Technical Bid, soft copy shall also be submitted.
6. All Bids must be delivered at the office of Prof. V. Ramakrishnan Principal Investigator, DST Research Project, School of Physics, Madurai Kamaraj University, not later than 03.00 p.m. on 29.02.2012. Technical Bids will be opened at 01.03.2012 at 11.00 a.m. in the presence of the Bidders' representatives who choose to attend. Names of Bidders together with the Nationality of manufacturers and suppliers and such other details as Madurai Kamaraj University, at its discretion, may consider appropriate, will be read out. Price Bids of those who qualify in Technical Bids will be opened at 2.00 p.m on 01.03.2012.
7. Only the tender document in the prescribed format should be used and it should be resubmitted in full shape without detaching any page from it.
8. Each page of the tender document, including technical specifications, should be duly signed for having noted the contents of the document
9. Tenders will be liable to rejection
 - a. If the country of manufacture and origin of material used in manufacture of articles is not noted in the tender.
 - b. If the tender is not in the form supplied by this Office or downloaded from the departmental website.
 - c. If the cost of the tender document is not accompanied if the same is down loaded from the web site.
 - d. If the tender is not accompanied by the receipt of Earnest Money
 - e. If the tenderer fails to fulfill the criteria laid down for evaluation of the "Technical cum Commercial bid" as mentioned in the Tender document
 - f. If samples / models of articles quoted are not submitted as and when required for technical evaluation test

- g. If the tenderer enters any restriction on other conditions in his tender.
 - h. If the tenderer enters one rate in figures and another in words and declines to abide by the lower of the two.
 - i. If the tenderer alters the period of supply or expunges any clause in the form of tender, and any delay in supply would invite a fee of 1% per week
 - j. If the tender is presented without signature.
 - k. The equipment mentioned in the tenders must meet all the technical specifications. Any item of the equipment not accompanied by the technical brochure printed by the original manufacturer will be dealt as not meeting the technical specifications
 - l. The tenders must meet all the requirements contained in this tender document
 - m. Authorization letter duly signed by the manufacturer in case of Authorized Dealer
 - n. In the event of violation / non-adherence to any other essential requirements mentioned elsewhere within this Tender document
10. The successful tenderer will be required to enter into a contract with the University regarding purchase.
11. The tender documents shall require all tenderers without exception to pay an Earnest Money Deposit ordinarily not exceeding **one per cent** of the value of the procurement by means of a Demand draft drawn in favour of the Pof.V.Ramakrishnan Principal Investigator, DST Research Project, School of Physics, Madurai-625 021 payable at Madurai.
- i) The Earnest Money will be liable to be forfeited if the tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
 - ii) If the successful tenderer fails to furnish the security deposit then the whole Earnest Money will be forfeited.
 - iii) The rate quoted should be valid for 120 days from the date of opening of the Tender.
12. The tender documents shall require that as a guarantee of the tenderer's performance of the contract, a **security deposit** be taken from the successful tenderer subject to the conditions that the amount of deposit not exceeding **five percent** of the value of the orders placed upto the warranty period.
13. Percentage of payment to be withheld for the effective performance of the contract, provided that withheld amounts do not exceed ten percent of the total value of contract.
14. The tender documents shall specify the period for which the tenderer should hold the prices offered in the tender valid.
15. The tender documents and the contract shall include a clause for payment of liquidated damages and penalty payable by the tenderer in the event of non-fulfilment of any or whole of the contract.
16. The tender documents shall clearly indicate the terms on which the tenderers will be required to quote their price which should be inclusive of all costs of delivery at the final destination such as transportation, insurance and any incidental services and giving the break up thereof.
17. The tender documents shall clearly indicate the criteria in addition to price which are to be adopted for evaluating the tenders and how such criteria will be quantified or evaluated.
18. The cost must include the warranty maintenance for 5 years from the date of installation.

19. Complete address including Phone No., Fax No., E-mail address etc. may be furnished.
20. The Tender should remain valid for a period of six months from the date of the opening of tenders.
21. Only one authorized representative of the tenderer with proper authority letter may attend the opening of the Tender.
22. All documentation is required to be in English.
23. Incomplete tenders and amendments and additions to tender after opening will not be accepted.
24. Fail-safe procedure in detail under following conditions may be indicated in detail.
 - (a) Power failure
 - (b) Voltage variations

The equipment must be capable of withstanding power fluctuations and equipments should not be damaged due to **'trip outs'**. The normal voltage and frequency conditions available at the site
25. Tenderers should include in their tender provision for tools and initial stock of maintenance spares as are essential for proper operation and maintenance of the equipment. Full particulars of spare parts should be provided separately.
26. The supplier shall be responsible to obtain all export licence for any other Govt. authorization from their Country.
27. The tenderers shall be responsible for erection & installation of the equipment at destination site and for making it fully operational. Payment and terms and conditions if any, for the same would be specified by the tenderer separately.
28. The tenderer shall be fully responsible for the manufacturers warranty in respect of proper design, quality and workmanship of all the equipment accessories etc. covered by the tender for a period of 5 years from the date of satisfactory installation of the system. **The provision for extended warranty with terms and condition thereof, if any, may also be specifically mentioned.**
29. The supplier will have to provide a contract performance agreement in an Indian stamp paper on the value not less than Rs100/-. The contract performance agreement should be valid during the course of warranty period.
30. Canvassing in connection with tender / quotation is strictly prohibited.
31. The tenders are to be submitted in sealed envelope **superscribed the name of the equipment with all necessary documents to the Prof. V.Ramakrishnan, Principal Investigator, DST Research Project, School of Physics, Madurai Kamaraj University, Madurai 625 021 on or before 29.02.2012 at 03.00 p.m and the same will be opened on 01.03.2012 at 11.00 a.m.. in the presence of the tenderers or their authorized representative who would like to be present**

Place: Madurai-21

Prof V.Ramakrishnan,
Principal Investigator,
DST Research Project,
School of Physics
Madurai Kamaraj University, Madurai-21