Department of Physics and Astrophysics
University of Delhi
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Ph: +11-2766 7725/Extn.1354, Fax: +11-2766 7061

TENDER DOCUMENT

Department of Physics and Astrophysics, University of Delhi invites sealed tenders/bids/quotations from reputed Original Equipment Manufacturers (OEM) or Authorized Distributors of OEM for the supply and installation of following Instrument.

- Modulated Differential Scanning Calorimeter (Annexure VIII)

Tender document is available on the Delhi University website http://www.du.ac.in.

INTRODUCTION

Important Dates and information's

Date of Issue of tender document	**18th January 2016 (Monday)**
Ref. No. of this tender	**Phys/XI Plan/Equipment-2015-16/MDSC**
Last Date and Time for submission of tender	**9th February 2016 (Tuesday)**
Address for Communication	**The Head** **Department of Physics and Astrophysics** **University of Delhi, Delhi-110007 (INDIA)**
Cost of the tender document	**Rs. 1000/- only (Non-Refundable)**

- **Cheques are not acceptable**, Payment should be made in the form of Demand Draft in favor of **The Registrar, University of Delhi, payable at Delhi.**

- **Quotations should be valid for 120 days from the date of opening of Technical bids.**

- All vendors should download the softcopy of tender document from the Delhi University's website (http://www.du.ac.in) and the same must be accompanied by a Demand Draft as said above. **In case, if the tender document is not accompanied by a DD, it is considered to be disqualified.**

- The tenders must reach at the office of **The Head, Department of Physics and Astrophysics, University of Delhi, Delhi-110007 (North Campus)** by 05:00 PM on or before 8th February 2016 (Monday).

Terms and Conditions of the Tender

1. Eligibility Criteria

- The vendor should have reputed background and should be established in the business for at least 5 years. For the three years out of the last five years, the turnover should be at least be

For total bid not exceeding	Turn Over
Rs. 10 Lakhs	Rs. 10 Lakhs
Rs. 25 Lakhs	Rs. 25 Lakhs
Rs. 50 Lakhs	Rs. 50 Lakhs
Rs. 1 Crore	Rs. 1 crore
Rs. 2 Crores	Rs. 2 Crores
Rs. 3 Crores	Rs. 3 Crores
For total bid exceeding Rs.3 Crores	Rs. 5 Crores

- Vendor must be a registered corporate entity in India. In case of companies incorporated outside India, they should mention an authorized service entity who would provide post purchase services on behalf of its principal.

- Vendor should be a registered OEM or Authorized dealer on behalf of such manufacturer having at least 5 years valid manufacturing license issued by Govt. of India. (Please attach copy of the same)

- Vendor should be an ISO 9001 and ISO 14001 company (Please enclose copy of relevant certifications)

- Vendor should have been making profits during 3 years out of last 5 years. Audited Balance sheet and Profit and Loss account (amount in Rupees) for last three years should be submitted. In addition, the University may ask for Income Tax Returns of the vendors if it deems necessary.

- Vendor should have executed at least 3 projects in the last five years for the equipment quoted to the Universities or Research Institutes of repute in the Country. Documentary evidence is to be submitted for these 3 projects with contact details, name, Tel Nos. and Fax. Nos. of the previous

customers. A complete list of all other places where similar high capacity UPS units have been supplied by the vendor is also preferred.

- Certificate of EMI compliance for their products as per EN standard EN500091-2 from Electronics Regional Testing Laboratory (ERTL)/Society for Applied Microwave Electronics Engineering and Research-SAMEER. The party must give an undertaking for submitting the certificate EN50091-1 for safety and EN50091-2 for EMC compliance to be enclosed.

2. Two Bid System Tender

Separate Technical and Commercial Bids duly sealed and super-scribed ***"Quotations for Modulated Differential Scanning Calorimeter (MDSC), Annexure VIII"*** shall be submitted.

Our Reference Number and date should be written on the envelopes.

- **"Technical and commercial Bids"** to be submitted **in separate sealed envelopes**. Both the- envelops must be enclosed in a single big sealed envelope. Each one of the-envelops should be super-scribed **with our reference number** and due date given above along with the product name.

- The technical bids will be opened individually, and examined for short listing the vendors, and the commercial bids of only those vendors who have qualified technically will be opened and compared.

The tender not submitted in the prescribed formats or incomplete in detail is liable for rejection. The University of Delhi is not responsible for non-receipt of quotation within the specified date and time due to any reason including postal holidays or delays.

ENVELOPE I (Technical Offer): The Technical offer should be complete in all respects and contain all information asked for, **except prices**. The Technical offer should include all details on specifications asked for in ***Annexure VIII***. For example, Technical Offer should mention that minimum of One Year Warranty Period is included in the Commercial offer, without mentioning the actual amounts in the Technical offer. The suggested format for submission of technical offer is as follows:

- All documents & certificates listed under **"Eligibility Criteria"** on page No. 2 of this tender document to be attached by the Vendor.

- Covering letter as per ***Annexure I***

- EMD in the form of Valid Bank Guarantee as per ***Annexure II***

- Manufacturer's Authorization Form (if applicable) as per ***Annexure III***
- The Company profile as per ***Annexure IV and Annexure IVA***
- Details of 3 major projects as per ***Annexure V***
- Details of Support / Service Centers as per ***Annexure VI***
- Vendor's Financial Details (audited balance sheets etc.) and other supporting documents, as asked in the tender document.
- Warranty compliance statement in ***Annexure VII***
- **Technical Offer for the listed Specifications** given in ***Annexure VIII*** with all the columns filled in. **This should not contain any price information**.
- Deviation table as per **Annexure IX** and **Annexure IXA.**
- Technical Documentation (Printed product Brochures and all technical leaflets, etc.) to be attached compulsorily with the Technical offer.

ENVELOPE II (Commercial Offer):

- The Commercial Offer (C.O) should give all relevant price information as per ***Annexure X***. The Bid Form must be filled in completely, without any errors, erasures or alterations. The Commercial offer must not contradict the technical offer in any way.

3. Documentation

The vendor shall furnish, as part of its tender offer, documents establishing the vendor's eligibility to participate in the tender and its qualifications to perform the Contract. The documentary evidence of the vendor's qualifications to perform the Contract, shall establish to University of Delhi's satisfaction that the vendor is eligible as per the criteria outlined in the Eligibility Criteria at Clause 1 on page 2.

4. Nontransferable Tender

This tender document is not transferable. Only the vendor, who has purchased this tender, is entitled to quote.

Any change in the constitution of the firm, etc. shall be notified forthwith by the contractor in writing to the tendering authority and such change shall not relieve any former member of the firm, etc., from any liability under the contract.

No new partner / partners shall be accepted in the firm by the contractor in respect of the contract unless he / they agree to abide by all its terms and conditions, and deposits with the tendering authority a written agreement to this effect. The contractor's receipt for acknowledgement or that of any partners subsequently accepted as above shall bind all of them and will be sufficient discharge for any of the purpose of the contract.

5. Offer validity Period

The offer should hold good for a period of 30 days from the closing date of the tender. Any offer falling short of the validity period is liable for rejection.

6. Earnest Money Deposit

Vendor must submit Earnest Money Deposit (EMD) in form of Bank Guarantee in favor of University of Delhi, Delhi. The EMD amounts are determined by the amount of your bid as follows:

For total bid not exceeding	EMD Amount
Rs. 10 Lakhs	Rs. 20,000.00
Rs. 25 Lakhs	Rs. 50,000.00
Rs. 50 Lakhs	Rs. 1,00,000.00

The non-submission of EMD will lead to the rejection of the bid. The irrevocable Bank Guarantee drawn on a Scheduled bank, shall be in form acceptable to the University of Delhi as per the ***Annexure II***. The EMD of unsuccessful bidders will be returned to them within Three (3) months of selection of vendors. The successful bid, if withdrawn, is liable for forfeiture of the EMD.

7. Manufacturer's Authorization Form

Vendors must submit a letter of authority from their manufacturers that they have been authorized to quote on behalf of the manufacturer (**Annexure III).**

8. Alternative offers

Each offer should specify only a single solution for each item which is cost - effective and meets the tender specifications, and should as far as possible not include alternatives.

9. Costs

The offer should include the following:

- Cost of the equipment inclusive of all **taxes & statutory levies** and charges for onsite installations in the campus of University of Delhi, Delhi-7

- The University shall provide Excise duty exemption certificate and custom duty exemption certificates on imported/custom bonded items (if any), but not the concession certificates towards the exemption of sale tax or any other incidents of tax.

- **At least minimum of One year onsite comprehensive warranty** covering all parts & labors. This period will start from the date of installation and successful acceptance of all the goods by the University of Delhi.

- Insurance to cover equipment up to the site of installation & successful acceptance of the equipment at University of Delhi.

- Special discounts/rebates, wherever applicable, keeping in view that the supplies are being made to an educational institution, may please be indicated.

- **Wherever applicable, rates under duty exemption/high sea sales agreement should be quoted. The Quotes for this should be in US Dollars/ GBP/ Japanese Yen/ Euro only. For the purposes of comparison, the exchange rate applicable on the day of Financial Bid opening will be taken.**

10. Erasures or Alterations

The offers containing unauthenticated erasures or alterations will not be considered. There should be no unauthenticated handwritten material, corrections or alterations in the offer. Technical details must be completely filled up. Correct technical information of the product being offered must be filled in. University of Delhi may treat offers not adhering to these guidelines as unacceptable.

11. Modifications and Withdrawal of Offers

The vendor may modify or withdraw its offer after its submission, provided that written notice of the modification or withdrawal is received by University of Delhi prior to the closing date and time prescribed for submission of offers. No offer can be modified by the vendor, subsequent to the closing date and time for submission of offers. In the event of withdrawal of the offer by successful bidders, the EMD will not be refunded by the University.

12. Preliminary Scrutiny

University of Delhi will scrutinize the offers to determine whether they are complete, whether any errors have been made in the offer, whether the required technical documentation has been furnished, whether the documents have been properly signed, and whether items are quoted as per the schedule. The University of Delhi may, at its discretion, waive any minor nonconformity or any minor irregularity in an offer. This shall be binding on all vendors and University of Delhi reserves the right for such waivers.

13. Clarification of Offers

To assist in the scrutiny, evaluation and comparison of offers, University of Delhi may, at its discretion, can ask some, or all vendors for clarification of their offer. The request for such clarifications and the response will necessarily be in writing. If deemed necessary, the vendor is required to give a presentation / arrange a demo of the items offered at the venue decided by the University of Delhi.

14. Technical Inspection and Performance Evaluation

University of Delhi reserves its right to carry out a technical inspection and performance evaluation of equipment offered by short listed vendors.

15. Verification

The University of Delhi reserves the right to verify any or all statements made by the vendor in the tender document, and to inspect the vendor's facilities, if necessary, to establish to its satisfaction about the vendor's capacity to perform the job.

16. Pre-dispatch Inspection

If considered necessary, University of Delhi, will inspect any, or all of the equipment at vendor's manufacturing site before shipment to verify that the equipment shipped to the University of Delhi is as per the technical specification specified in the purchase agreement

University of Delhi may opt for third party confirmation from ERTL/SAMEER for specifications of the product. In case the specification does not meet the requirements the party has to bear the expense for subsequent testing at their own risk and cost.

17. No Commitment to Accept Lowest or Any Tender

University of Delhi shall be under no obligation to accept the lowest or any other offer received in response to this tender notice and shall be entitled to reject any or all offers including those received late or incomplete offers without assigning any reason whatsoever. University of Delhi reserves the right to make any changes in the terms and conditions of purchase. University of Delhi will not be obliged to meet and have discussions with any vendor, and or to listen to any representations.

18. Short-listing of Vendors

University of Delhi will create a shortlist of technically qualifying vendors and the commercial offers of only these vendors will be opened. After opening the Commercial Offers of the short-listed vendors, if there is a discrepancy between words and figures, the amount indicated in words will prevail.

19. Award Criteria

This common tender has been issued purely for the convenience of University of Delhi. The evaluation of the tender will be carried by the University of Delhi, and the contract will be awarded to the technically and commercially qualifying individually award contract for each of the item that is to be purchased.

20. Delivery & Installation Period

The University of Delhi would like to have the following time schedule for completion of the activities from the date of placement of orders.

a) Delivery: 4-6 weeks
   Installation, testing and setting up the unit for continuous operation: 4 weeks from the date of delivery.

b) The tenderer shall be responsible for proper packing so as to avoid damage under normal conditions of transport by sea, rail and road or air and delivery of the material in good condition to the consignee at destination. In the event of any loss, damage, breakage or leakage or any shortage the tenderer shall be liable to make good such loss and shortage found at the checking / inspection of the material by the consignee. No extra cost on such account shall be admissible.

21. Performance Bank Guarantee

The selected vendors shall furnish 10% of the value of purchase order in the form of Bank Guarantee issued by a Scheduled Bank for a period of three years. The period of three years will commence only after date of installation. Performance Bank Guarantee has to be deposited before release of payment.

22. Payment Terms

Payment will be made to the vendor after delivery and installation for all items at the scheduled destinations.

For imported items the payments will be made as per standard procedure.

23. Completeness of the contract

The contract will be deemed as incomplete if any component of the hardware, software, or any documentation / media relating thereto is not delivered, or is delivered but not installed and /or not operational or not acceptable to the Indenter after acceptance testing / examination. In such an event, the supply and installation will be termed as incomplete and it will not be accepted and the warranty period will not commence. The Warranty period will commence only on acceptance (based on acceptance test) of equipment by the Indenter.

24. Warranty

A. At least one year onsite comprehensive warranty covering all parts & labor from the date of acceptance of the systems by University of Delhi. During the warranty period, the vendor will have to undertake comprehensive maintenance of the entire equipment, including hardware, software, equipment and accessories supplied by the vendor at the site of installation.

B. **The vendor should have service center in the city of Delhi to ensure that the machines are attended within a period of 3 hours after the complaint is lodged on working days, and within a period of 12 hours on holidays.**

C. The Vendor shall be fully responsible for the manufacturer's warranty for all equipment, accessories, spare parts etc. against any defects arising from design, material, manufacturing, workmanship, or any act or omission of the manufacturer / Vendor or any defect that may develop under normal use of supplied equipment during the warranty period.

D. The tenderer shall also be responsible to ensure adequate regular supply of spare parts needed for a specific type of machinery and equipment whether under their annual maintenance and repairs rate contract or otherwise.

Besides the above, the vendor will have to confirm the terms and conditions of warranty in ***Annexure VII***.

25. Liquidated Damages for delayed supply

If the vendor fails to deliver any or all of the equipment or does not perform the services within the time period(s) specified in the Contract, University of Delhi shall, without prejudice to its other remedies under the Contract, deduct from the Contract price, as liquidated damages, a sum equivalent to 2.0 percent of the price of the undelivered items the stipulated rate for each week or part there of during which the delivery of such items may be delayed subject to a maximum limit of 10 percent of the stipulated price of the items so undelivered. Such penalty is to be deducted always from the bills of the firm OR to purchase elsewhere or from the Security Deposit on the account and risk of the vendor. Once the maximum of the damages above is reached, the Indenter/purchaser may consider termination of the Contract and delisting the vendor on the account and risk of the vendor.

26. Order Cancellation

University of Delhi also reserves the right to cancel the order in the event of one or more of the following circumstances:

- Delay in delivery and installation beyond a period of 6 weeks from the date of opening of Letter of Credit, or issue of Purchase order whichever is later.

- Serious discrepancy in hardware noticed during the pre-dispatch inspection, if any.

- Breach by the tenderer of any of the terms and conditions of the tender.

- Any action by the vendor which is in breach of law or accepted practices in commercial transactions

- If the Vendor goes into liquidation voluntarily or otherwise

- In addition to the cancellation of purchase order, University of Delhi reserves the right to forfeit the Performance guarantee submitted to University of Delhi by the Vendor and delisting the vendor.

27. Indemnity to Bank

The Vendor should furnish a photocopy of the Agreement with their Principals in respect of all products offered. Further, the vendor shall indemnify University of Delhi and keep indemnified against any loss or damage that the University of Delhi may sustain on account of any violation of patents, trademark etc., by the vendor in respect of the products supplied.

28. Guarantees

The equipment must conform to the highest quality and standard. All equipment, hardware and related software, must be supplied with their original and complete printed documentation. Consistency must be maintained for the entire lot of the equipment offered. All the required quantity of an item in schedule of requirement must be of the same brand and same model number. Part numbers also must be same for all pieces of an item. The Vendor should not substitute any internal components or subsystems of equipment by similar items from a different manufacturer. All the equipment and peripherals should be supplied with the relevant interface cables.

29. Repeat Order

If the order is placed in excess of the quantities shown in the tender notice, the tenderer shall be bound to meet the requirement. Repeat orders may also be placed on the rates and conditions given in the tender provided that the period is not more than 6 months from the date of the purchase order.

30. Publicity

Any publicity by the vendor in which the name of University of Delhi is to be used should be done only with the explicit written permission of University of Delhi.

31. Force Majeure

The vendor shall not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that its delay in performance or other failure to perform its obligations under the contract is the result of an event of force Majeure. For purposes of this Clause, "Force Majeure" means an event beyond the control of the Vendor and not involving the vendor's fault or negligence and not foreseeable. Such events may include, but are not limited to, Acts of God or of public enemy, acts of Government of India in their sovereign capacity, acts of war, acts of University of Delhi in fires, floods and freight embargoes.

If a Force Majeure situation arises, the Vendor shall promptly notify University of Delhi in writing of such conditions and the cause thereof within twenty calendar days unless otherwise directed by University of Delhi in writing, the Vendor shall continue to perform it's obligations under the Contract as far as it is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event. In such a case, the time for performance shall be extended by a period(s) not less than the duration of such delay. If the duration of delay continues beyond a period of three months, University of Delhi and the vendor shall hold consultations with each other in an endeavor to find a solution to the problem. Not withstanding above, the decision of University of Delhi shall be final and binding on the vendor.

32. Resolution of Disputes

University of Delhi and the vendor shall make every effort to resolve amicably, by direct informal negotiation, any disagreement or dispute arising between them under or in connection with the contract. If after thirty days from the commencement of such informal negotiations, University of Delhi and the Vendor have been unable to resolve amicably a contract dispute; either party may require that the dispute be referred for resolution by formal arbitration. The **Vice Chancellor of Delhi University** shall appoint a **Sole Arbitrator** of the dispute who will not be related to the contract and whose decision shall be final and binding.

33. Jurisdiction

Any dispute arising out of this purchase shall be under the jurisdiction of the courts of Delhi.

34. Income Tax may be deducted at source as per rules.

35. Vendors may be subject to a financial viability check and may be required to take out a director's, bank, or corporate guarantee.

Annexure I

(Letter to the University on the vendor's LETTER-HEAD)

Date:

To
The Registrar
University of Delhi
Delhi-110007

Dear Sir,

Sub: Your tender for Supply & Installation of ***"Quotations Modulated Differential Scanning Calorimeter (MDSC), Annexure VIII"***

With reference to the above tender, having examined and understood the instructions, terms and conditions forming part of the tender, we hereby enclose our offer for the supply of the following items as detailed in your above referred tender.

Basic Item No.	Item Description	Make & Model

We further confirm that the offer is in conformity with the terms and conditions as mentioned in your above referred letter and enclosures. We also understand that the University is not bound to accept the offer either in part or in full and that the University has right to reject the offer in full or in part without assigning any reasons whatsoever.

We have enclosed the required bank guarantee favoring University of Delhi issued by the ……. (Bank), ……(Branch),…….. (Date), and is payable at Delhi, towards **Earnest Money Deposit.**

Yours faithfully,

Authorized Signatories
(Name & Designation, seal of the
firm) Date:

(Note: **This EMD bank guarantee certificate should be prepared on a non judicial stamp paper of Rs. 10/-)**

Annexure II

Earnest Money Deposit Bank Guarantee

To
The Registrar
University of Delhi
Delhi-110007

Dear Sir,

Supply & Installation of *"Quotations for Modulated Differential Scanning Calorimeter (MDSC), Annexure VIII"*

WHEREAS
The University of Delhi located at Delhi (hereinafter called the University) has invited tenders for the Supply & Installation of **"*Modulated Differential Scanning Calorimeter (MDSC)*"** on the terms and conditions mentioned in the tender document.

1. It is one of the terms of invitation of tenders that the tenderer shall furnish a Bank Guarantee as detailed in the tender document Clause 6 as Earnest Money Deposit.

2. M/s_____, (hereinafter called as Tenderer), who are our constituents intend to submit their tender for the said equipments and have requested us to furnish guarantee to the 'University' in respect of the said sum of Rs. ----------/ (Rupees---------- only)

NOW THIS GUARANTEE WITNESSETH

1. We _____ (NAME OF THE BANK) do hereby agree with and undertake to the University of Delhi, their Successors, Assigns that in the event of the University of Delhi coming to the conclusion that the Tenderer have not performed their obligations under the said conditions of the tender or have committed a breach thereof, which conclusion shall be binding on us as well as the said Tenderer, we shall on demand by the University of Delhi, pay without demur to the University of Delhi, a sum of Rs. ----------/(Rupees ----------only) or any lower amount that may be demanded by the University of Delhi. Our guarantee shall be treated as equivalent to the Earnest Money Deposit for the due performance of the obligations of the Tenderer under the said Conditions, provided, however,

that our liability against such sum shall not exceed the sum of Rs. ----------/(Rupees ---------- only).

2. We also agree to undertake to and confirm that the sum not exceeding Rs. ----------/(Rupees ----------only) as aforesaid shall be paid by us without any demur or protest, merely on demand from the University of Delhi on receipt of a notice in writing stating the amount is due to them and we shall not ask for any further proof or evidence and the notice from the University of Delhi shall be conclusive and binding on us and shall not be questioned by us in any respect or manner whatsoever.

We undertake to pay the amount claimed by the University of Delhi within a period of one week from the date of receipt of the notice as aforesaid.

3. We confirm that our obligation to the University of Delhi under this guarantee shall be independent of the agreement or agreements or other understandings between the University of Delhi and the Tenderer.

This guarantee shall not be revoked by us without prior consent in writing of the University of Delhi.

We hereby further agree that

- Any forbearance or commission on the part of the University of Delhi in enforcing the conditions of the said agreement or in compliance with any of the terms and conditions stipulated in the said tender and/or hereunder or granting of any time or showing of any indulgence by the University of Delhi to the Tenderer or any other matters in connection therewith shall not discharge us in any way our obligation under this guarantee. This guarantee shall be discharged only by the performance by the Tenderers of their obligations and in the event of their failure to do so, by payment by us of the sum not exceeding Rs. ---------- (Rupees ----------only)

- Our liability under these presents shall not exceed the sum of Rs. ---------- (Rupees ----------only)

- Our liability under this agreement shall not be affected by any infirmity or irregularity on the part of our said constituents in tendering for the said work or their obligations there under or by dissolution or change in the constitution of our said constituents.

- This guarantee shall remain in force upto ……provided that if so desired by the University of Delhi, this guarantee shall be

renewed for a further period as may be indicated by them on the same terms and conditions as contained herein.

- Our liability under this presents will terminate unless these presents are renewed as provided hereinabove on the ……..or on the day when our said constituents comply with their obligations, as to which a certificate in writing by the University of Delhi alone is the conclusive proof whichever date is later. Unless a claim or suit or action is filed against us within six months from that date or any extended period, all the rights of the University of Delhi against us under this guarantee shall be forfeited and we shall be released and discharged from all our obligations and liabilities hereunder.

Yours' faithfully,
For and on behalf of _____
Bank Authorized official

(**Note:** This guarantee will require stamp duty as applicable and shall be signed by the official whose signature and authority shall be verified).

(Note: **This letter of authority should be on the** Letter-Head **of the manufacturing concern and should be signed by a competent person of the manufacturer)**

Annexure III

Manufacturer's Authorization Form (MAF)

Ref: No. _____

dated_____

To
The Registrar
University of Delhi
Delhi-110007

Dear Sir,

Tender Reference _____

We _____ who are established and reputable manufacturers of _____ having factories at _____ and _____ do hereby authorize M/s _____ (Name and address of Agent/Dealer) to offer their quotation, negotiate and conclude the contract with you against the above invitation for tender offer.

We hereby extend our full guarantee and warranty as per terms and conditions of the tender and the contract for the equipment and services offered against this invitation for tender offer by the above firm.

Yours faithfully,

Authorized Signatories
(Name & Designation)
Date:

For and on behalf of M/s_____
(Name of manufactures)

(Note: **This letter of authority should be on the** Letter-Head **of the manufacturing concern and should be signed by a competent person of the manufacturer)**

Annexure IV

Company Profile

Details filled in this form must be accompanied by sufficient documentary evidence, in order to verify the correctness of the information.

S. No	Item	Details
1	Name of Company	
2	Mailing Address	
3	Telephone and Fax numbers	
4	Date of registration of the Company	
5	Year of commencement of Business	
6	Name and designation of the person authorized to make commitments to the University	
7	Contact details of the person authorized to make commitments to the University	
8	Turn over of the company 2005-2006 2006-2007 2007-2008 2008-2009 2009-2010	
9	Profit of the company 2005-2006 2006-2007 2007-2008 2008-2009 2009-2010	
10	Sales Tax Number	
11	Income Tax Number	
12	Whether direct manufacturer or authorized dealers	

Signature (Name & Designation)
Date:

(Note: **This letter of authority should be on the** Letter-Head **of the manufacturing concern and should be signed by a competent person of the manufacturer)**

Annexure IV A

CERTIFICATE FROM THE VENDOR STATING THAT THE COMPANY HAS NOT BEEN BLACKLISTED BY ANY GOVERNMENT ORGANISATION

The Registrar
University of Delhi
Delhi

Dear Sir,

This is to certify that M/s_____
has not been blacklisted by any Government Organization before submission of the tender document.

Yours faithfully,

Authorized Signatories
(Name & Designation)
Date:

For and on behalf of M/s_____

(Note: **This letter of authority should be on the** Letter-Head **of the manufacturing concern and should be signed by a competent person of the manufacturer.)**

Annexure V

To
The Registrar
University of Delhi
Delhi-110007

Dear Sir,

We hereby certify that we have executed the following 3 projects to completion on the similar items (……..) as offered in the present tender to other Government organizations/Educational Institutions/Universities/Govt. Research Organizations.

Note: Please quote only those projects which are of substantial value.

Name of the Vendor _____

S. No.	Name of the Client	Equipment	Clients Contact Details (Including Name, E-mail, Phone and Fax No. and Proper Address	Remarks

Signature (Name & Designation)
Date:

(Note: **This letter of authority should be on the** Letter-Head **of the manufacturing Concern and should be signed by a competent person of the manufacturer.)**

Annexure VI

To
The Registrar
University of Delhi
Delhi-110007

Details of Support and Service Centers

Name of the Vendor _____

S. No.	Place	Own Office/Franchise	Postal Address	Contact Person & Contact Details	Number of engineers	Service Facilities available **(Describe in detail)**

Signature (Name & Designation)
Date:

(Note: **This letter of authority should be on the** Letter-Head **of the manufacturing concern and should be signed by a competent person of the manufacturer.)**

Annexure VII

Warranty Compliance Statement

The Registrar
University of Delhi
Delhi-110007

Dear Sir,

Subject: **Supply & Installation of *Modulated Differential Scanning Calorimeter (MDSC)***

This bears reference to our quotation Ref_____ Dated _____.

We warrant that everything to be supplied by us shall be brand new, free from all defects and faults in material, workmanship and manufacture and shall be of the highest grade, quality and consistent with the established standards for materials specification, drawings or samples, if any, and shall operate properly. We shall be fully responsible for its efficient operation.

We also confirm that all service related complaints for the UPS units will be attended within a period of 3 hours after the complaint is lodged on working days, and within a period of 12 hours on holidays.

During the warranty period in case of failing to repair the machine, we will provide a stand-by arrangement till the equipment is repaired.

Yours faithfully
Signature (Name & Designation)
Date:

Annexure VIII

Modulated Differential Scanning Calorimeter (MDSC) Specifications

Modulated differential scanning calorimetry (MDSC) system for the measurement of heat capacity, reversing and non-reversing component heat flow and phase transitions with very high resolution in the range of -170 ^{o}C to 600 ^{o}C.

Overview:

Thermal analysis of polymer materials by measuring the following:

- Glass transitions
- Heat capacity and melting points.
- Crystallization temperature.
- Degree of cure/ rate of cure.
- Heat of fusion of reaction.
- Reaction kinetics & etc.
- Reversing and non-reversing component of heat flow

General Specification:

The system should consist of single furnace with **Heat Flux measurement principle** as well as stable baseline & should be equipped with the modulated system. Separation of the glass transition from kinetic effects: curing, crystallization and volatilization. Model should be a Bench Top should be controlled through suitable data communication devise based on Desktop Computer

Technical Specifications:

DSC Type with	: Heat flux Differential scanning calorimeter dual mass flow digital Controller
DSC Cell	: Fixed position
Auto sampler up gradation positions	: 20 position auto sampler up gradation in
Temperature Range	: -170 ^{o}C to 600 ^{o}C or better
Temperature Calibration	: Up to 5 pts
Temperature Repeatability	: 0.1K, based on metal standards
Thermocouples	: Platinum/Platinum-Rhodium
The sensor time constant	: 0.8 S
Heating /cooling rates	: 0.001K/min to 500 K/min or better
Temperature resolution/precision	: 0.05K/min or better
MDSC sensitivity (resolution)	: 0.25µW or better

Enthalpy Accuracy	: ± 1%
Enthalpy Precision	: ± 0.2%
Calorimetric Accuracy	: 2% (based on metal standards)
Calorimetric Precision	: 2% (based on metal standards)
Specific heat range	: 0…..5J/g
Specific heat accuracy	: ± 3%
Data collection rate	: 10 point/sec
Mode of operation	: The system must have auto evaluation smart measurement
Base line curvature	: ≤ 0.4 mW
Base line reproducibility	: 0.150 mW
Signal Noise (max. peak to peak)	: < 1µW
Calorimetric Measuring range	: ± 700 mW
Reproducibility onset-temperature	: ± 0.2 K (Indium melting peak)
Reproducibility of peak areas	: ± 1% (Indium melting peak)
Indium peak height to width ratio	: >>100 mW/K
Dynamic Range	: ± 600 mW
Power requirements	: 100-240 Volt 50/60 Hz
Warranty Period	: One year from the date of installation

Atmospheres:

- The system should be able to work under nitrogen, oxygen, argon and CO_2 atmosphere for avoiding condensation effects must be included.

- Accurate controlling and recording of the flow for two purge gases and the protective gas
  (± 1 ml/min) via software must be possible

Calibration:

- The system must be delivered with traceable standards to allow calibration for temperature and enthalpy by the DSC user or better.

- Accurate sensitivity calibration should be also possible with sapphire (C_p-method).

- Must have up to six points for temperature calibration.

- Calibration kit for C_p measurement should be quoted

Crucibles:

- 01 pc each of Al, Al_2O_3, Cu, Pt & ceramic crucible of standard size must be supplied with equipment.
- Minimum 500 number of Aluminium crucibles should be quoted by vendor. Sealing press device for aluminium crucible should be provided along with die.
- There should be supply of crucible carrier box for putting crucibles.
- In addition, copper crucible for OIT measurements.
- Beside standard Al crucibles, further crucibles made of other metals Ag, steel, glass, etc. in various sizes must be available.

- Medium-pressure crucibles up to 20 bar made of stainless steel and a suitable sealing press have to be supplied for liquids and solvents in future if needed.

- Special high-pressure crucibles up to 100 bar made of stainless steel or titanium must be available if needed.

Digital mass flow controller:

Digital mass flow controller (controller flow rate 0 – 180 ml/min or better) for N_2, O_2, Air, Argon etc. along with integrated gas switching capability must be supplied with equipment or should be a part of system. The system should have Integrated Mass Flow Controller (MFC) for two purge gases and one protective gas. Flow rate must be programmable within operating software, and deliverable as a saved signal in the data file. Mass flow controllers must also allow for automated gas switching during an experiment. Additionally, the vender should able to supply oxygen, nitrogen and argon cylinder with regulators.

Weighing Balance:

Suitable weighing balance for weighing the samples max 200gm with 5 digit accuracy or better.

Software:

- Software should allow to program different segments of measurements and flattening the graph.

- Data files contain measured sample temperature, not calculated temperature. This allows the user to know what temperature the sample is actually at during different heating rate experiments and makes for accurate and precise transition temperatures.

- The software should include calibration routines and offer the possibility for automatic baseline correction of the DSC signal (curvature) as well as base line subtraction.

- The software should have the capability **of OIT detection** to shorten measurement time.

- The software should include **crystallinity determination**

- The software should include **C_p evaluation**

- The temperature **modulated DSC software** should be compatible with the system and available when needed for generating sinusoidal temperature program to separate total heat flow, reversing heat flow, non-reversing heat flow of the samples and specific heat (C_p) complex, specific heat (C_p) in phase, specific heat (C_p) out phase.

- The operating software should also be capable of periodically and automatically checking for updates via an internet connection, and downloading/installing those updates if desired.

- Indigenously procured PC with suitable operating system (preferably Window 7 professional) & printer should be included with the machine as per the software requirements.

Basic Spare parts Kit

Installation and commissioning of the machine & training of 02 persons must be included free of cost.

Annexure IX

The Registrar
University of Delhi
Delhi-110007

Deviations from Technical Specifications, and Terms and Conditions of the Tender

S. No.	Tender Document Clause	Technical Specification or terms and conditions in the Tender document	Deviation offered	Reasons and whether deviation adds to the operational efficiency in case of the systems
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				

Note:

- Above information in detail should be furnished separately for each of the items offered
- Also in case of deviations from any of the terms and conditions of the tender.
- If any deviations from the technical specifications are warranted, reasons for such variations should be specified and
- Whether such variations add to improvement of the overall performance of the systems, if any, should be specifically mentioned and supported by relevant technical documentation as required above.

Signature **Date:**
(Name & Designation)

Annexure IX-A

Commercial Deviations

Bidders Name & Address:

To,
The Registrar
University Of Delhi
Delhi-110007

Sub: Supply & Installation of ……**For Delhi University**

The following are the Commercial Deviations and variations from and exceptions to the specifications and documents for the subject package. These deviations and variations are exhaustive. Except for these deviations, the entire work shall be performed as per your specifications & documents.

Clause	Ref./ Page No.	As specified in the specification	Commercial Deviation and variation to the specification	Withdrawal price in Rs.

Date: (Signature)……...

Place: (Printed Name) ……..
(Designation)……...
(Company Seal)……..