

निविदा/कोटेशन के लिए आमंत्रण

**INVITATION FOR TENDER / QUOTATION**

दूरध्वनी

Telephone No : (020) 24304239 /  
(020) 24304235

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उन्नत प्रौद्योगिकी रक्षा संस्थान

(सम-विश्व विद्यालय) गिरीनगर, पुणे - 411025

**Defence Institute of Advanced Technology**

(Deemed University) Girinagar, Pune – 411 025.

आय एस ओ 9001 प्रमाणित संस्थान

ISO 9001 Certified Institute

(रक्षा अनुसंधान एवं विकास संगठन से पूर्णवित्तिय पोषित)

स्वायत्त संस्थान, रक्षा मंत्रालय)

(An Autonomous Organisation fully funded by Department of Defence Research &amp; Development, Ministry of Defence)

**TWO BID**

Tender Ref No. DIAT/MMG/CHEM/2010-11/144/D1

Date: 22/02/2011

Due date of Submission of Quotations: 24/03/2011 Time 1600 Hrs

Opening of Tender (Techno-Commercial Bid) Date: 25/03/2011 Time : 1100 Hrs

Opening of Price Bid: It will be intimated separately.

To \_\_\_\_\_  
\_\_\_\_\_

Dear Sirs,

1. The supplies/services noted at Schedule of Requirements in Techno-Commercial Bid (Part-IV) are required. Please find the following enclosed in this invitation:
 

(a)	Invitation for Tender (Part I)	- Page 1
(b)	Tender (Part II)	- Page 2
(c)	General Terms & Conditions (Part III)	- Page 3 – 5
(d)	Techno – Commercial Bid (Part IV)	- Page 6 – 7
(e)	Price Bid (Part V)	- Page 8 - 9
2. You are requested to return Part II, Part III and Part IV duly completed in one envelope, and marked as **Techno-Commercial Bid** and Part V duly completed and marked as **Price Bid** in another envelope. The two envelopes are to be addressed to **The Vice Chancellor, Defence Institute of Advanced Technology, Deemed University, Girinagar, Pune – 411 025** and marked with our *Tender Reference No., due date, and due time on each envelope with your stamp as sender along with date of dispatch.* The two envelopes may be put in one envelope and addressed to **The Vice Chancellor, Defence Institute of Advanced Technology, Deemed University, Girinagar, Pune – 411 025** indicating the **Tender Enquiry Number and due date on top of the envelope** at the above address without any indication that there is a quotation within. The combined envelope may be **put in tender box placed at DIAT(DU), Pune, Security Gate** before the due date and time. Non – compliance of the above may disqualify your offer for consideration.

Thanking you,

Yours faithfully,

**(Smt DV Kale)**Admin Officer  
For Vice Chancellor

## PART II

**Tender Ref No. DIAT/MMG/CHEM/2010-11/144/D1**

To

**The Vice Chancellor,  
Defence Institute of Advanced Technology.  
Deemed University, Girinagar,  
Pune – 411 025**

I/We agree to furnish required supplies /services as detailed in the Techno-Commercial Bid (Part IV) or such portions thereof as you may specify in the Acceptance of Tender/Supply Order at the Prices given in the Price Bid (Part V) in accordance with the General Terms and Conditions (Part III) governing the contract/supply order enclosed with the General Terms and Conditions (Part III) governing the contract/supply order enclosed hereto duly accepted on receipt of order for the same.

I/We agree to hold this offer open until \_\_\_\_\_ and shall be bound to supply/commission/erect the equipment and dispatch the same within the specified period.

I/We agree to supply and commission/erect the equipment and complete the whole of the work and hand over to the purchaser within the period of \_\_\_\_\_ weeks, from the date of receipt of intimation from you regarding acceptance of this tender/receipt of supply order.

Station :

Date :

\_\_\_\_\_  
( )  
Signature of Tenderer  
With Office Stamp  
Name & Address

Station :

Date :

\_\_\_\_\_  
( )  
Signature of Witness  
Name & Address

## **GENERAL TERMS & CONDITIONS FOR TENDER ENQUIRY**

### **PART III**

#### **1. Preparation of Tender:**

- (a) The complete tender form (Page 2-9) should be returned intact whether you are quoting for any item or not. Page should not be detached but when items are not being tendered for, the corresponding space should be defaced by mentioning 'not quoting'
- (b) In the event of space on the tender form being insufficient for the required purpose, additional pages may be added. Each such additional page must be numbered consecutively, should bear the tender reference number and be fully signed by you (the supplier). In such cases reference to the additional pages must be made in the tender form.
- (c) If any modification of the tender form is considered necessary, you (supplier) should communicate the same by means of a separate letter sent with the Tender.

#### **2. Signing of Tender:**

- (a) The tender is liable to be ignored if complete information is not given therein regarding the particulars, data, specifications asked for in the techno-commercial offer (Part IV) at Schedule of Requirements. Specific attention must be paid to the delivery dates, technical specifications, and also the general conditions of contract at part III and other conditions mentioned at Part IV and Part V.
- (b) Individual signing the tender or other documents connected with a contract must specify whether he signs as :
  - (i) A 'sole proprietor' of the firm or constituted attorney of such sole proprietor.
  - (ii) A partner of the firm if it be a partnership, in which case he must have authority to refer to arbitration disputes concerning the business of the partnership either by virtue of the partnership agreement or a power of attorney
  - (iii) Constituted attorney of the firm if it is a Company.

#### **NB:**

- a. In case of (ii) above a copy of the partnership agreement or a general power of attorney and in either case attested by a Notary Public, should be furnished to this office, or an affidavit on stamped paper of all the partners admitting execution of the partnership agreement or the general power of attorney, should be furnished.
- b. In case of partnership firms where no authority to refer disputes concerning the business of the partnership has been conferred on any partner, every partner of the firm must sign the tender and all other related documents.
- c. A person signing the tender form or any documents forming part of the contract on behalf of another shall be deemed to warranty that he has authority to bind such other and if, on inquiry, it appears that the persons so signing had no authority to do so, the purchases may, without prejudice to other civil and criminal remedies cancel the contract and hold the signatory liable for all costs and damages.
- d. The tenderer should sign each page of the tender form and annexures, if any.

3. **Delivery of Tender:** The original copy of the tender form (Pages 2-9) is to be enclosed in the envelope, containing Part II, Part III and Part IV and Part V marked. The envelope should be sealed and should bear address of this office, Tender Reference No., due date, and due time. The envelope should be addressed to this office without any indication, that there is a Tender within. Right is reserved to ignore any tender who fails to comply with the above instructions
4. **Latest Hour for Receipt of Tender:** Unless otherwise specified in the Invitation to Tender (Part I), your tender must reach this office not later than 1600 hours on the date of acceptance of the tender. Tenders sent by hand should be put in the Tender Box at this Office not later than 1600 hrs on the due date unless otherwise mentioned.
5. **Period for which the offer will remain open:**
  - (i) Firms tendering should note the period for which it is desired that their offers should remain open for acceptance. If the day up to which the offer is to remain open being declared closed holiday for Govt. offices, the offer shall remain open for acceptance till the next working day.
  - (ii) Quotations qualified by such vague and indefinite expressions such as 'Subject to immediate acceptance'; 'Subject to prior sale' will not be considered.
6. **Opening of Tenders:** The firm shall be at liberty to be present or authorize a representative to be present at the opening of the tender at the time and date as specified in the schedule. The name and address of the representative who would be attending the opening of the tender on behalf of the firm should be indicated in the tender. Please also state the name and address of firm's permanent representative, if any. Generally the techno-commercial offer will be opened on the date specified for opening.
7. **Right of Acceptance:** This office does not pledge itself and reserves to itself the right of accepting the whole or any part of the tender or portion of the quantity offered and the firm shall supply the same at the rate quoted. The firm shall be at liberty to tender for the whole or any portion or to state in the tender that the rate quoted shall apply only if the entire quantity is taken from the firm.
8. **Communication of Acceptance:** Acceptance of tender by the purchaser will be communicated by a telegram, express letter of acceptance/telex or a formal letter of 'Acceptance of Tender'. In cases where acceptance is communicated by telegram or Express letter, the formal acceptance of Tender will be forwarded to the firm as soon as possible but the instructions contained in the telegram/telex/FAX or Express letter should be acted upon immediately.
9. Items supplied are subject to inspection and acceptance and the supplier should collect/replace the rejected items at his cost and risk.
10. **Delayed supplies:** In case of delayed supplies, liquidated damages at the rate of ½% per week of delay with a maximum of 05% will be levied.
11. **Registration: Registration is mandatory.** If your firm is not registered with this Lab/Estt. Or any other DRDO Lab/Estt., they are required to seek registration. For details please write to **The Vice Chancellor, Defence Institute of Advanced Technology, Deemed University, Girinagar, Pune – 411 025** Vendor must complete registration formalities to become eligible for placing supply order and future enquiries.
12. Registration number allotted by this laboratory or any other DRDO Lab/Estt or proof of registration with another Govt. Dept., if any to be mentioned on the quotation.

13. No correspondence/discussion/visits whatsoever will be entertained on the subject unless specifically called by this office after opening the tenders for technical discussions/price negotiations. Any violation of this will render the quotations invalid and the firm is liable to be blacklisted.
14. The Vice Chancellor reserves the right to call for Techno-commercial/Price Negotiations. The company should depute competent representative for such discussions/negotiations whenever called for and he/she shall be competent to take on the spot decisions.
15. Drawings / specifications sent along with this letter should be returned along with your quotation or regret letter.
16. The Tenderer may give any of their commercial term, if required in their techno-commercial offer only, and price quotation should contain only price.
17. **SECURITY** : Any information/material/documents supplied in connection with this enquiry/likely order is classified. You are required not to disclose/copy it to jeopardize security.
18. Please inform The Vice Chancellor in writing whether the owner of the firm or any of their partners/employees have/has close relations working with any DRDO Lab/Estt. This is for record only.
19. The Vice Chancellor reserves the rights to place order for full quantity or part thereof as considered necessary.
20. **Earnest Money Deposit**: Please provide **Earnest Money Deposit Rs 1,10,000/-** alongwith sealed price Bid in the form of Demand Draft in favour of **Defence Institute of Advanced Technology. Deemed University, Girinagar, Pune – 411 025**. If the firm is registered under Small Scale Industries/DGS&D/NSIC/DIAT (DU) or any DRDO Establishment are exempted from paying Earnest Money Deposit for their products. A copy of valid registration certificate may be enclosed alongwith Technical Bid. Please indicate in the letter that EMD is enclosed alongwith Price Bids, if applicable.
21. It is intimated that this Institute is situated out side of Pune Municipal Corporation area, hence DIAT (DU) is exempted from paying any Octroi Duties and also cannot provide any Octroi Exemption Certificate. .
22. Office stamps of tenderer must be affixed below their signatures.

**(Smt DV Kale)**  
Admin Officer  
For Vice Chancellor

**Tender Ref No. DIAT/MMG/CHEM/2010-11/144/D1**

Full Address :  
Fax No. :  
Telephone No. :  
Signature of Tenderer :  
Name in Block Letters :  
Office Stamp :  
Station :  
Date :

**TECHNO-COMMERCIAL BIDS**  
**PART IV**

1. **Tender Ref No. DIAT/MMG/CHEM/2010-11/144/D1**
2. Name of Tenderer :
3. Due date of Submission of Quotations: 24/03/2011 Time 1600 Hrs
4. Opening of Tender (Techno-Commercial Bid) Date: 25/03/2011 Time : 1100 Hrs
5. The tender shall remain valid for acceptance for **120** days, from the date of tender opening.
6. Schedule of Requirement :

Sl No.	Description & Nature of Supplies/Services	Qty Required	Place & Dates on which delivery is to be made	Specifications (Attach additional sheets, drawings etc, if necessary)
1.	<b>TGA DSC Thermal Analyzer</b> (AS PER TECHNICAL SPECIFICATION)	<b>01 No</b>	<b>DEFENCE INSTITUTE OF ADVANCED TECHNOLOGY</b> [DEEMED UNIVERSITY] GIRINAGAR, <b><u>PUNE 411 025</u></b> [INDIA]	<b>As per technical specification sheet enclosed</b>

**CONDITIONS FOR TECHNO- COMMERCIAL BIDS**

**TECHNICAL**

1. Give brief description of item/equipment/material with accessories. Items offered should conform to BIS (ISI) specifications or as explicitly stated. In case specifications offered are different, separate comparative technical specifications sheet shall be attached with details such as Sl. No specifications offered, deviations if any, and remarks. Any product brief test certificates available may be enclosed.
2. List of spares, if applicable should be attached.
3. Any optional, if offered, be provided with there full technical details including their use and advantage.
4. (a) Samples : Samples are required / not required.  
(b) Drawings : Drawings supplied by this office are to be returned along with your tender.

**COMMERCIAL**

1. The normal payment terms are 90% within 30 days after receipt, acceptance and satisfactory installation of stores/equipment in good condition or the date of receipt of the bill whichever is later. The balance 10% payment will be released after Warranty / Guarantee period. This can also be released on furnishing an irrevocable bank guarantee in the prescribed format for equivalent amount valid for the duration of such warranty / guarantee, wherever applicable. **The payment to all suppliers / vendors, refunds of various nature, and other payments which the organizations routinely make shall be made through Electronic payment mechanism (i.e Electronic Clearing System and Electronic Fund Transfer) at all centers where**

**such facilities are available in the banks. The payment will be made only by EFTS (Electronic Funds Transfer System)/ECS. The necessary formalities for e-payment in the given format may please be furnished at the time of billing**

2. In case of Annual Maintenance Contract, the payment will be made on quarterly basis at the end of every quarter, subject to providing satisfactory services or 100% Advance Payment against Bank Guarantee.
3. Give details of installation and commissioning except price which will be only in price bid (if applicable)
4. Warranty / Guarantee required is for **Three** Year. Indicate Warranty/Guarantee duration offered. You may offer your price accordingly. .
5. Delivery desired is within 04 weeks / otherwise, Specify your delivery period. Inclusive of installation.
6. In case of delayed supplies, liquidated damages at the rate of 0.5% per week subject to a maximum of 05% will be levied.
7. This Organisation is exempted from payment of Customs Duty under Notification No. 39/96 dated 23<sup>rd</sup> Jul 1996 & Amended by 60/96 dt 22<sup>nd</sup> Aug 1996 and Excise Duty under Notification No. 10/97 Central Excise dated 01 Mar 1997. However, prices should be quoted indicating clearly customs/Excise Duties. If agreed, the necessary exemptions certificate may be provided. This exemption is for the final product only.
8. **Delivery** : Free Delivery at Defence Institute of Advanced Technology, (DU) Girinagar, PUNE – 411 025
9. Mode of Despatch : RAIL / ROAD / AIR / SEA / POST
10. In case equipment offered requires maintenance after the expiry of the Warranty, please indicate approximate cost of comprehensive and on call basis maintenance and also availability of local support or otherwise.
11. Please note clearly that faxed quotation is liable to be rejected.
12. The Contractor is liable to submit the Security Deposit of appropriate value, in the event of acceptance of his Tender if Applicable.
13. **Earnest Money Deposit:** Please provide Earnest Money Deposit Rs **1,10,000/-** alongwith sealed price Bid in the form of Demand Draft in favour of **Defence Institute of Advanced Technology (DU), Girinagar, Pune-411 025**. If the firm is registered under Small Scale Industries/DGS&D/NSIC/DIAT(DU) or any DRDO Establishment are exempted from paying Earnest Money Deposit for their products. A copy of valid registration certificate may be enclosed alongwith Technical Bid. Please indicate in the letter that EMD is enclosed alongwith Price Bids, if applicable.
14. **Sales Tax** – Sales Tax without Exemption Certificate

**(Smt DV Kale)**

Admin Officer  
For Vice Chancellor

**Tender Ref No. DIAT/MMG/CHEM/2010-11/144/D1**

Full Address :  
Fax No. :  
Telephone No. :  
Signature of Tenderer :  
Name in Block Letters :  
Office Stamp :  
Station :  
Date :

## PRICE BID PART V

1. **Tender Ref No. DIAT/MMG/CHEM/2010-11/144/D1**
2. Name of Tenderer :
3. Due date of Submission of Quotations: 24/03/2011 Time 1600 Hrs
4. Opening of Tender (Techno-Commercial Bid) Date: 25/03/2011 Time : 1100 Hrs
5. Amount of **EMD Rs.1,10,000/-** DD No. \_\_\_\_\_ dt \_\_\_\_\_  
(Applicable only for unregistered vendors. Please refer 11.12 in Part III)
6. The tender shall remain valid for acceptance for **120** days, from the date of tender opening.
7. Rates for items given in Techno-commercial offer at Schedule of Requirements are as follows.  
Adhering to the Format given below is a Pre-requisite for considering your quotations

S.No.	Description	A/U	Qty Offered	Unit Price	Total Price
1.	<b>TGA DSC Thermal Analyzer (As per specification)</b>	<b>01 No</b>			
	I. Basic Price without duties if any of Complete Equipment/item/material with all accessories				
	II. Customs Duty, if any (% details)				
	III. Excise Duty, if any (% details)				
	IV. Sales Tax Without Exemption Certificate				
	V. Installation and Commissioning Cost, if any				
	VI. Training cost, if any				
	VII. Total Cost (in figures & words)				
	VIII. For Octroi if applicable. <b>[OCTROI IS NOT APPLICABLE TO THIS INSTITUTE]</b>				
	IX. Any other				
	X. Our Institute is an Educational Institution. All Educational concessions are applicable to this Institute				

8. Separate list should be attached where required in the same format giving details of each item and cost. However, total cost mentioned at Srl No. 7 (vii) above.

### OTHER CONDITIONS FOR PRICE BIDS

1. No unilateral revision in price will be admissible.
2. Rates should be quoted in the accounting units (A/U) mentioned in this enquiry. Rates must be quoted clearly on free delivery basis at Defence Institute of Advanced Technology (DU), Girinagar, Pune – 411 025 and total value is also indicated in words.
3. In case any of the subheads are included in the total cost, the same should be specified. Any exemption of duties/taxes required should be indicated.
4. Any optional indicated in techno-commercial bids must be priced separately.



5. In case spares/accessories are applicable, their price should be clearly indicated separately.
6. Price :
  - (a) The prices quoted must be net per unit shown in the schedule and must include all packing and delivery charges. Refunds on account of returnable packages (if any) are to be separately specified. Prices and refunds must be clearly shown in figures and words in **Indian Currency**
  - (b) The price must be stated for each item separately. The percentage of reduction, in total price for the entire demand should also be quoted; should an order to that extent be placed with you.
  - (c) If excise duty or any other extra charges are applicable, the same must be specifically stated. In the absence of any such stipulation, it will be presumed that the prices include all such charges and no claim for the same will be entertained.
  - (d) The price quoted in the tenders should be exclusive of sales tax ( and should be clearly stated to be so) which will be paid by the purchaser, if legally leviable at the rate ruling on the date of supply as specified in the Acceptance of Tender.
7. **Packing:** Unless a method of packing is indicated in the specification or in the Schedule of packing which the contractor proposed to employ must be described in the Schedule of Tender form. Contractors are at liberty to quote for additional alternative sizes and description of packs and these must be described in the Schedule of Tender.
8. Any other

**(Smt DV Kale)**  
Admin Officer  
For Vice Chancellor

Tender Ref No. **DIAT/MMG/CHEM/2010-11/144/D1**

**Full Address** :

Fax No. :

Telephone No. :

Signature of Tenderer :

Name in Block Letters :

Office Stamp :

Station :

Date

Tender Ref No. DIAT/MMG/CHEM/2010-11/144/D1

## **Revised Specifications for TGA-DSC Thermal analyser**

Name: TGA - DSC (All in one)

Quantity: 01

**Combined TGA-DSC system with sensor based technology for weight loss or gain and high performance specific heat measurement.**

Simultaneous measurement of TGA as well as DSC curves for the sample from -100°C to + 800°C.

### **1. Specification of TGA Unit :**

#### **TGA Furnace Data**

Furnace size	Suitable size up to 1000mg sample
Temperature range	-100 °C to + 800°C (cooling Liquid Nitrogen accessory)
temperature accuracy	± 0.5 °C
temperature reproducibility	±0.5 °C
Heating rate (programmable )	0.01-100 °C/Min.
Cooling rate(1000-100°C)	14 min (Max.)

#### **TGA Balance Data**

Balance type	Vertical or horizontal design for loading the sample for ultra microbalance, Sample pan should be made of platinum with temperature above 800°C. Ten number of sample holder should be provided.
Measurement Range	Upto 1000 mg
Sensitivity	0.1 µg

Noise	$\leq 1.0 \mu\text{g}$
Calibration	4 curie point calibration standard based on alumel, nickel and nickel alloys for entire range. Software based system for both temp. and wt. calibration
Capacity	200 mg
Resolution	$0.1 \mu\text{g}$
Accuracy	0.02%
Sample Atmosphere	Static or dynamic, including inert or reactive gases. Analyses done at normal or reduced pressure

## 2. Specification of Thermal Differential Scanning Calorimeter (DSC) Unit: Advanced version

Standard furnace	alumina coated aluminum
Temperature Range	I. $-100^{\circ}\text{C}$ to $800^{\circ}\text{C}$
Cooling accessories	$-100^{\circ}\text{C}$ to $200^{\circ}\text{C}$ (Liquid Nitrogen Accessory and Intracooler both)
Heating Rate	$0.1$ to $50^{\circ}\text{C}/\text{min}$
Cooling Time	Minimum $5^{\circ}\text{C}/\text{min}$ controlled cooling to $-100^{\circ}\text{C}$ with liquid nitrogen accessory and from $700^{\circ}\text{C}$ to $100^{\circ}\text{C}$ in fewer than 9 minutes by air cooling.
Temperature Accuracy	$\pm 0.2^{\circ}\text{C}$
Temperature Precision	$\pm 0.05^{\circ}\text{C}$
Calorimetric Reproducibility	$\pm 0.1\%$
Calorimetric Sensitivity	$0.2 \mu\text{W}$
Signal Time Constant	$< 2 \text{ s}$

Crucibles capacity	120 $\mu$ l, 160 $\mu$ l, 320 $\mu$ l of alumina
No. of Crucible	100 no. for each capacity
Power requirement	100-240V, 50/60 Hz
Temperature sensors	Thermocouple of Chromel alloy
Atmosphere	Furnace chamber can be purged with a defined gas flow rate, including inert or reactive gases over full temperature range.
Modulated Mode	Instrument should be capable to operate in modulated mode , used to differentiate between heat capacity and kinetic events
Heat Capacity	Direct heat capacity data from the every data point should be possible
Mass flow controller	Digital Dual mass flow controller to control and measure the gas flow, signal of gas to be recorded in the raw data file
Sensitivity	0.1 mW or better

### **Accessories**

1. Sample pans & lids (aluminum, alumina, copper and platinum), reusable high pressure pans, sample encapsulation press, tools useful for sample preparation.
2. Power cord
3. Standard Sample Pan Crimper Press
4. Standard Aluminum Pans & Covers (~ 400/Pkg)
5. Pyris player, kinetics, Scanning Kinetics, Specific Heat and Isothermal Purity software packages.
6. It should be able to measure the DSC curve on both heating and cooling mode.

### **3. Software**

Compatible window based standard computer software for routine measurement /evaluations of glass transition temperature, peak area, peak temperature and mass loss steps, specific heat determination, degree

of Crystallinity, phase transformation, kinetics parameter calculation with various models, transition enthalpies, melting temperature, crystallization temperature etc. Software must be capable enough to analyse data and produce results for:

- i) TGA evaluation
- ii) TGA kinetics
- iii) Mathematical evaluation
- iv)  $T_g$ ,  $T_m$ ,  $T_c$
- v) Curve Overlay of DSC, TGA
- vi) Online evaluation
- vii) Export / import data from ASCII, DOS format.
- viii) Export data in PDF format.
- ix) On line purge gas signal display for Purge gas.

#### 4. Computer system:

Processor: Intel core i3

Ram: 2GB

Hard disk: 500 GB

CD Read and write and DVD drive

USB ports

17' TFT colour Monitor

HP printer all in one colour printer and suitable capacity

UPS with backup 3 hr should be supplied along with the system.

#### 5. Standard Supporting Accessories for the unit

- |    |  |       |
|----|--|-------|
| 1. | Filled Gas cylinder of capacity 7 NM <sup>3</sup> for N <sub>2</sub> , O <sub>2</sub> and Air<br>(2 Nos. each) (UHP grade gases) | 6 nos |
| 2. | Gas regulator for N <sub>2</sub> , O <sub>2</sub> and Air cylinders( 2 Nos. each)  | 6 nos |
| 3. | Standard Gas purification station  | 1nos  |

#### 6. Power supply:

One Single phase, 220 volt, 50 Hz, Power source will be made available to the vendor.  
Required power points for running the system will be made from the single source by the vendor.

**Quotation should include all necessary spares and accessories for smooth functioning of system for 3 years. Post warranty AMC for three years.**

**Service and operational manual along with training for service and operation should be provided.**

**All necessary items for installation of equipment should be provided.**

**Comprehensive warranty for three years.**

**Note: Appendix 'A' has to be attached along with technical bid completely filled with compliance and remarks, if any. The same has to be duly signed by authorized person along with company's stamp.**

**Entire System as mentioned above has to be supplied by single vendor.**