

## **Tenders for supply of Laboratory Instruments/Equipment**

**Last date for issue of Tender Schedules** : 14.08.2008 up to 1.00 P.M.

**Place at which Tender Schedules can be obtained** : EPTRI  
91/4, Gachibowli,  
Hyderabad -500032.  
Ph.No. +91-040-23000489  
23001241, 23001242,  
23001707  
Fax No. +40-23000361

**Cost of each Tender Schedule and Mode of Payment** : Rs. 500/-Non refundable  
to be paid in cash or  
through DD taken from  
any scheduled Bank in  
favour of EPTRI,  
Hyderabad

Tender Schedule can be downloaded from the Website: [www.eptri.com](http://www.eptri.com)

---

**Officer to be contacted for further details**

**Dr. J.Sesha Srinivas**

**Senior Scientist**

**Cell No. 9346675891**

**ENVIRONEMENT PROTECTION TRAINING & RESEARCH  
INSTITUTE (EPTRI)  
91/4, Gachibowli, Hyderabad- 500 032 (AP)  
Phone No. 23001241/42**

**Tender Notification No. EPTRI/LAB/EQUIP/TENDER No.1, Dt:02.08.2008.**

**INVITATION FOR TENDERS FOR SUPPLY OF LAB  
INSTRUMENTS/ EQUIPMENT**

---

Issued to:

**Sub: Invitation for tenders for supply of Instruments/Equipment  
to EPTRI.**

I 1) Sealed tenders are invited from the manufacturers/authorized agents of the manufacturers for supply, installation, commissioning and trial operations of the following instruments/equipment at EPTRI, Hyderabad. The installation of the equipment should include imparting of training to the personnel of EPTRI in operation and maintenance of the instruments/equipment.

The instruments/equipment required by EPTRI are :

<b>S.No.</b>	<b>Item</b>	<b>Quantity (In nos)</b>
1	Melting Point Apparatus	1
2	Digital Polarimeter	1
3	Dissolution Test Apparatus	1
4	Disintegration Test Apparatus	1
5	TLC Kit	1
6	UV Chamber	1
7	Friability Test Apparatus	1
8	Hardness Test Apparatus	1


  
**B. Rama Murthy**  
Director (Programmes)

Signature of  
Tenderer

- 2) **The required technical specifications of instrument/equipment are enclosed (item wise) as Anneuxre-I.**

**II. Terms & conditions:**

1. The tender/s shall be submitted separately for each item clearly superscribing on the envelop the name of the instrument/equipment. The tender/s shall be submitted in **Annexure II A (technical specifications) and II B (price bid)** in separate sealed covers duly superscribing on the covers as '**Technical Specifications**' or '**Price Bid**' as the case may be. Both these covers are to be sealed individually and put in another cover and sealed and submitted.
2. The tender/s will be received up to 2.00 P.M. on 14-08-2008 at EPTRI at the address as mentioned at page No.1 and tenders will be opened at 3.00 P.M. on 14-08-2008 in the conference hall of EPTRI, Gachibowli, Hyderabad in the presence of the tenderers or their authorized representatives.
3. The tenderer must be either sole manufacturer of the instruments/equipment or the authorized agent/representative of the manufacturer. In the case of agent/representative, certified copy of the agency/authorization issued by the manufacturer should be enclosed to the tender.
4. The equipment should have USP/IP/ International/ National validation certificates.

  
**B. Rama Murthy**  
**Director (Programmes)**

Signature of Tenderer

5. Specifications for each equipment /instrument supplied should be clearly spelt out in the tender in the format (Annexure II A).

6. Part supplies will not be entertained.

7. The tender (Annexure II B) should include apart from the price of the instrument/equipment -

- a) Warranty period details
- b) The cost of recommended essential spares.
- c) List and cost of consumables/standards etc., required from time to time with all necessary details.
- d) AMC after warranty period (to be shown separately).

8. The rates/prices should be quoted in the currency of the country where the instruments/equipment is manufactured from where it is supplied.

9. Delivery should be at EPTRI, Gachiblowli, Hyderabad. The price shall be inclusive of all taxes, transportation cost up to EPTRI and cost towards installation/commissioning, trial operation, comprehensive training and also clearing charges. Necessary documents for clearing the consignment through customs authorities will be provided by EPTRI. The price, however, shall be exclusive of customs and central excise duty since EPTRI is granted permission by the concerned Govt. of India authorities for payment of concessional customs and central excise duty. Therefore, EPTRI will pay the customs and central excise duty. Once again, it is repeated that only clearing charges, shall be borne by the supplier.

Signature of Tenderer

  
**B. Rama Murthy**  
Diretor (Programmes)

10. The successful tenderer should supply the instruments/ equipment within a period of 4-6 weeks from the date of purchase order by EPTRI.


11. The Cost of the tender documents for each instrument /equipment is Rs. 500/ and it shall be paid in cash or through cheque /DD drawn in favour of EPTRI, Hyderabad. In case the tender documents are down loaded from the Web Site, the cost shall be paid at the time of submission of the tender in cash or through cheque /DD.

12. The tenderer shall furnish EMD at 2% of quoted price along with tender in the shape of DD/banker's cheque taken from any scheduled Bank in favour of EPTRI payable at Hyderabad. Failure to comply with this condition will result in summary rejection of the tender/s.

13. The EMD of the successful tenderer will be refunded one month after completion of the supply of the equipment to the satisfaction of EPTRI.

14. The EMD of the unsuccessful tenderers will be returned to the concerned immediately after finalization of the tenders.

15. Documents such as instrument operation, calibration, maintenance, drawing, descriptive literature etc., if any, along with the manual should be supplied by the successful tenderer with the equipment.

  
**B. Rama Murthy**  
Diretor (Programmes)

Signature of Tenderer


16. Instruments/equipment should be unpacked in the presence of the Scientists of EPTRI. The consignment will be accepted only after inspection by the technical staff of EPTRI.

17. Inspection certificates of the instruments/equipment inspected by the qualified engineer of the manufacturer and packed in accordance with the terms and conditions of this order must be enclosed.

18. A guarantee certificate against all the manufacturing defects covering a period of minimum one year from the date of supply shall be given at the time of supply of the equipment. Any additional period towards guarantee will be given weightage in evaluation of the bids.

19. During the guarantee period whenever the firm is called upon to attend to the rectification of the defects/faults in the consignments, the firm shall attend to the repair work at the earliest and in any case within a period of a week. They should render timely back up service whenever called upon. A certificate to the effect should be attached to the tender.

20. A certificate to the effect that instruments/equipment supplied is fully operational and no additional accessory or spare is required to make the instruments/ equipment run should be issued along with the delivery challan /invoice. EPTRI reserves the right to refuse payment in the event of not furnishing this certificate at the time of supply.

  
**B. Rama Murthy**  
Diretor (Programmes)

Signature of Tenderer

21. The Tenderer shall submit the satisfactory working certificates from recent/past (preferably local) users of the Instruments/equipment.

22. The Tenderer shall submit the latest Income Tax clearance certificate.

23. EPTRI reserves the right to accept/reject any tender without assigning any reason thereof. The tenders are liable to be rejected if –

- a. specifications are not matching
- b. the satisfactory working certificates from recent/past (preferably local) users are not enclosed

24. Once the rate is approved by EPTRI and supply order is placed on the successful tenderer and in the event of failure on the part of the tenderer for supply of the equipment/instrument on any account, EPTRI reserves the right to forfeit the EMD. Further, EPTRI may procure such instruments/equipment from open market and in the event of EPTRI having to pay any higher price, such differential amount shall have to be borne by the tenderer.

25. All disputes are subject to Hyderabad jurisdiction.

  
**B. Rama Murthy**  
**Director (Programmes)**

## ANNEXURE – I

(to Tender Notification No.EPTRI/LAB/EQUIP/TENDER No.1  
Dt: 02.08.2008 of EPTRI)

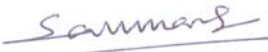
### REQUIRED TECHNICAL SPECIFICATIONS:

#### 1. MELTING POINT / RANGE APPARATUS:

##### Specifications:

- Microprocessor controlled MELTING POINT / RANGE APPARATUS which shall precisely detects melting point / range of samples which become completely transparent after melting.
- Melting point Range : 25°C Ambient to 350°C Range
- Resolution : 0.1°C
- Accuracy : ± 0.1%
- CPU / In built software : Latest Processor.
- Memory to store Melting Range : 1) Initial Melting Temperature with LED indication.  
2) Final Melting Temperature with LED indication.
- Heater Controls : 1) Adjustable Set Temperature for fast heating.  
2) Adjustable slow heating from 0°C/Min. to 5°C /Min.  
3) Auto cutoff after storing final melting temperature.
- Power : 220 V AC, 50 Hz
- Instruction Manual & Operators manual : Required
- System shall complies to : GLP & USP/IP/EP

Signature of Tenderer

  
**B. Rama Murthy**  
Diretor (Programmes)

## 2. DIGITAL POLARIMETER:

Automatic DIGITAL POLARIMETER shall meet all the current pharmacopoeial requirements as per USP / EP / IP; having following Specifications:

- Light Source : Na (Sodium Lamp) and or Halogen Lamp
- Modulator+ : Faraday cell
- Measurement wavelength : 589 nm / 546nm
- Measurement Angular Range :  $\pm 90^\circ$
- Measuring Scale : Degree Arc Optical Rotation
- Response Speed :  $6^\circ / \text{sec}$
- Measurement Accuracy :  $\pm 0.002^\circ$  (up to  $1^\circ$ )  
 $\pm 0.2^\circ$  (above  $1^\circ$ )
- Measurement Repeatability :  $0.002^\circ$
- Resolution :  $0.0001^\circ$  Arc Optical rotation
- Integration Time : 1 – 100 sec
- Measuring modes : Optical rotation, optical specific rotation, Concentration sugar scale (Z), Brix purity, optical purity.

  
**B. Rama Murthy**  
Diretor (Programmes)

Signature of Tenderer

- Temperature measurement Range : 0-40°C (minimum display temp: 0.1°C)
- Calibration : Automatic calibration
- Power requirement : AC100-240V ± 10%, 50 or 60 Hz,  
80 – 300 W
- Display : On PC Monitor
- **Operators Manual** : Required


**OPTIONAL:**

- Peltier Temperature control cell

**3. DISSOLUTION TEST APPARATUS:**

Microprocessor Controlled DISSOLUTION TEST APPARATUS shall meet all the current pharmacopoeial requirements as per USP / EP / IP etc. having following Specifications:

- 8 Nos. S.S. Paddles [6 std +2 Mini]
- 6 No Baskets [USP Apparatus-1] with Mono Shaft
- 8 Nos. of Polycarbonate bowls
- 25 mm Depth Balls (1 Set= 6 Nos)
- Special Tablet Dispensing Attachment For Simultaneous Dropping of Tablets / Capsules / Pellets.
- Water bath : Acrylic water bath with 17 litre capacity with built in water level
- Temperature Range : 30°C To 40°C
- Resolution : 0.1°C
- Shaft speed for paddle/basket : 20-250 rpm


  
**B. Rama Murthy**  
 Director (Programmes)

Signature of Tenderer

- Dissolution vessel : Poly carbonate bowls as per USP Requirement
- Dissolution process time : 1 min to above 700 hrs.
- Method Storage : Minimum of 15 programmes
- Sampling time selection : Fixed and programmable interval with on time & split time intervals with maximum of 30 intervals.
- Tablet Dispensing : All the tablets shall be dispensed at a single instance/time
- Automatic vessel centering : Shall be possible
- Evaporation loss : Shall be prevented during long run.
- In built software : Shall have evaluation parameters, report and dissolution profile with graphical representation
- The instrument to operate on : 230V, 50Hz power supply.
- Shall Complies to : GLP & USP/IP/EP
- **Operators Manual** : Required

**Additional Attachments required:**

- Stationery basket for special tablets.
- Intrinsic dissolution
- Auto sampler with pump with facilities such as rinsing, replenishing, sampling & cleaning.


  
**B. Rama Murthy**  
 Director (Programmes)

Signature of Tenderer

#### **4. TABLET DISINTEGRATION TEST APPARATUS**

Automatic micro processor controlled DISINTEGRATION APPARATUS shall meet all the current pharmacopoeial requirements as per USP / EP / IP, etc. having following specifications:.

- Dip Speed :  $30 \pm 1$ DPM
- Stroke Length :  $5.5 \pm 0.1$ cm
- Water bath temperature  
Range : Ambient to  $50^{\circ}\text{C}$
- Temperature accuracy :  $\pm 0.2^{\circ}\text{C}$
- Water bath : Moulded acrylic  
water bath with illumination for  
better visibility
- Test mode : User Programmable temperature and  
Time
- Display : Back lighted LCD display
- Keyboard : With water proof  
Polyester soft keys.
- Output Printer : Parallel port  
RS 232C : PC connectivity for data downloading
- Power requirements : 230. V, 50 Hz
- System shall complies to : GLP & USP/IP/EP
- **Operators Manual** : Required

  
**B. Rama Murthy**  
Diretor (Programmes)


Signature of Tenderer

**Should have the following facilities:**

- Baskets are to be automatically lifted at the end of the test.
- Should be capable for dual buffer disintegration test.
- Should have External temperature sensors available for individual beaker.
- Using the single keypad, the user should control every function from the length of the test to the water bath temperature.
- 2 Baskets of 6 tubes each should be provided
- Fluted discs : 12 nos. should be provided
- Temperature sensors : 2 nos.
- Audible beep with display indication should be possible
- The bath desired temperature should reach with in minutes.

**5. THIN LAYER CHROMATOGRAPHY (TLC) KIT:**

- The unit shall have a movable applicator with inbuilt thickness adjustment arrangement between 0 to 2 mm.(Minimum 0.25mm)
  - (a) Spreader (Applicator) made of electroplated brass.
  - (b) Perspex base size 114 x 23 cm, to support 5 glass plates of size 20 x 20 cm or 10 of 20 x 10 cm. and to two plates of 20 x 5 cm.
  - (c) Drying plate rack anodized aluminium for ten 20 x 20 cm. plates.
  - (d) Spotting Template Perspex.
  - (e) Developing tank with lid.
  - (f) Five Glass Plates 20 x 20 cm. and two end plates 20 x 5 cm. or ten 20 x 10 cm. and two 20 x 5 cm. plates.
  - (g) Micro pipette corning glass.
  - (h) Scriber.
  - (i) Glass Sprayer with rubber below.
  - (j) Instruction Manual.

  
**B. Rama Murthy**  
Director (Programmes)

Signature of Tenderer

### **Optional Accessories for T.L.C:-**

- Draining rack for holding washed plates in angular position so that water can drop off over corner of wet plates before coating.
- Plate rack made of stainless steel to hold vertically two plates of 20 x 20 cm. in developing tank
- Drying plate racks made of anodized aluminium for plates of 20 x 20 cm.
- T.L.C. Plate Storage Teakwood Cabinet for transport and storage of coated plates, sealed against air humidity. Size: 38 x 23 x 20 cm.
- Dessicator Cabinet, this is used for storing plates in thin Layer Chromatography and for general laboratory work. Made of thick aluminium sheet with stout glass door with rubber gasket. A tray for silica gel dessicant and two perforated shelves are provided.

### **Replacement and Additional parts for T.L.C:**

- Spare T.L.C. Applicator Electroplated Brass. Inbuilt thickness adjustment from 0-2 mm. (Minimum div 0.25 mm)
- Spare perspex base (white Acrylic) size 114 x 23 cm. to support glass plates.
- Spotting Template Perspex
- Glass plate all sides ground 20 x 20 cm.
- Glass plate all sides ground 20 x 10 cm.
- Glass plate all sides ground 20 x 5 cm.
- Chromatography tank with cover for 20 x 20 cm plates.
- Chromatography tank with cover for 20 x 10 cm plates.
- Chromatography tank with cover for 20 x 5 cm plates.
- Glass sprayer with rubber bellow.
- T.L.C. Micro Pipette.

Signature of Tenderer

  
**B. Rama Murthy**  
Diretor (Programmes)

## 6. UV CHAMBER:

- Fabricated with UV resistant transparent front panel
- UV Source-8W-15W x 2 germicidal.
- Fitted with short (254nm) , Long (365nm) (Dual wavelength)
- Overhead white fluorescent light
- Timer control for UV irradiation.
- Power required: 220 V AC.
- 1 Set UV Source shall be offered extra.

## 7. TABLET FRIABILITY TEST APPARATUS:

Automatic micro processor controlled Friability Apparatus shall meet all current pharmacopoeial requirements as per USP / EP / IP having following Specifications:

- Operating Modes : Count or time should be user selectable
- Test Mode : Programmable count 1 to 9999  
Or Programmable Time up to 99.59
- Display : LCD display
- Rotation Speed : 25 rpm
- Count Mode Accuracy :  $\pm 1$  RPM
- Drums : 2 drums with Acrylic material
- Keyboard : Alphanumeric splash water proof  
Polyester soft keys.
- Output - Printer : Parallel port  
RS 232 C : PC Connectivity for data  
Downloading
- **Operators Manual** : Required

Signature of Tenderer

  
**B. Rama Murthy**  
Diretor (Programmes)

**Should have the following facilities:**

- Automatic discharge of sample into individual sample tray after completion of each cycle.
- 10° tilting of drums as per USP recommendation.
- Front loading facility.
- Should support USP drum.
- Calculation of friability – percentage weight-loss.
- Balance interface for sample weight transfer should be possible.

**8. TABLET HARDNESS TESTER**

Micro processor controlled Hardness Apparatus with built in printer meeting with all pharmacopoeial requirements as per USP/EP/IP etc. with following specifications:

- Measurement Range : 1 – 200 N
- Diameter Range : 1- 40 mm
- Jaw Speed : 0.8 mm/sec
- Test Accuracy :  $\pm 0.5N$
- Display : Seven Segment LED

**Additional Features shall be:**

- Easy access for tablet placement
- Load cell provides accurate results.
- Single or multi tablet grout test.
- Calibration facility.
- Built in Printer for report printing with statistics
- Should be possible to accommodate any shape of tablet

Signature of Tenderer

  
**B. Rama Murthy**  
Diretor (Programmes)

## Annexure II- A

(to Tender Notification No. EPTRI/LAB/EQUIP/TENDER No.1

Dt: 02.08.2008 of EPTRI, Hyderabad)

(To be filled by the Tenderer)

### TECHNICAL SPECIFICATIONS

NAME OF THE INSTRUMENT/EQUIPMENT: \_\_\_\_\_

1. Name and full address of tenderer/Bidder including telegraphic address/telex No. & Fax No.
2. Name and Designation of the Head of the Firm/Manufacturer with telephone No.
3. In case the Head office of the supplier is located outside Hyderabad , contact address/Authorized Distributors or Agents address in Hyderabad, if any. (agency/distribution ship certificates shall be enclosed)
4. Name, Designation, address Telephone Number of the authorized person who may be contacted during the process of the purchase concerned under this document (applicable to all the suppliers)
5. a) Are the equipment's specifications matching with required specifications as in the tender document. Yes/No  
b) If No, please give the deviations from specification given in the tender document.

Saurman

**B. Rama Murthy**  
Diretor (Programmes)

Signature of Tenderer

6. Detailed technical specifications offered by bidder along with all technical notes, catalogues, satisfactory certificates and others as enclosures (mention all details of Base Unit, recommended spares and the optional/recommended accessories for the tendered items(s) (If necessary, a separate sheet may be enclosed)

7. Make-country of origin

8. Validity period of the tender

9. Delivery schedule

10. Are the tender conditions accepted in full, if 'no' details of deviation (if necessary, a separate sheet may be enclosed) Yes/No

11. EMD Details (DD/Banker Cheque No., Date and Bank )


12. Whether latest income tax clearance certificate attached Yes/No

Place

Date

With Stamp

Legally binding Signature

  
**B. Rama Murthy**  
Diretor (Programmes)

## Annexure II- B

(to Tender Notification No. EPTRI/LAB/EQUIP/TENDER No.1  
Dt:02.08.2008 of EPTRI, Hyderabad)  
(To be filled by the bidder)


### PRICE BID

#### 1. Basic Unit cost.

Sl No	Name of the equipment/instrument	Make	Cost (In Rs.) (inclusive of taxes, if any, and transportation-exclusive of customs duty)	
			In figures	In words

A) . AMC after warranty period:  
(Cost along with terms to be quoted)

- i) Manner of service
- ii) Periodicity of checking
- iii) Any other documents
  - a) Service with components/parts
  - b) Service without components/parts

  
**B. Rama Murthy**  
Diretor (Programmes)

Signature of Tenderer

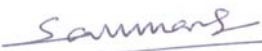
**2. Essential spares for 2 years.**

Sl.No	Spares (Specify)	Make	Rate per Unit	No. of Units	Cost (in Rs.) (inclusive of taxes, if any, and transportation- exclusive of customs duty)	
					In figures	In words

A) . AMC after warranty period:  
(Cost along with terms to be quoted)

- i) Manner of service
- ii) Periodicity of checking
- iii) Any other documents
  - a) Service with components/parts
  - b) Service without components/parts

Signature of Tenderer

  
**B. Rama Murthy**  
Diretor (Programmes)

**3. Consumables & Standards :**


Sl.No.	<u>Consumables &amp; Standards</u> (Specify)	Make	Rate per Unit	No. of Units	<b>Cost (in Rs.)</b> (inclusive of taxes if any and transportation-exclusive of customs duty)	
					In figures	In words

**4. Total cost ( 1+2+3)**

In figures:

In words :

Signature of Tenderer

  
**B. Rama Murthy**  
Diretor (Programmes)

I agree to the terms and conditions as mentioned in the tender schedule.

Signature of the bidder  
Name

Full address

Telephone No.  
Cell No.

Date:

(Stamp)

**Note: Wherever the space provided is not sufficient, additional sheet may be used to furnish complete information and such additional sheets must be signed and stamped.**

  
**B. Rama Murthy**  
**Director (Programmes)**