

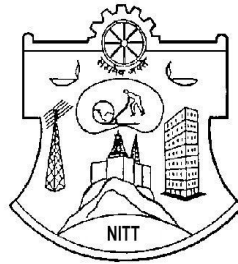
# NATIONAL INSTITUTE OF TECHNOLOGY

## TIRUCHIRAPPALLI – 15

### NITT HOSPITAL

Web: [www.nitt.edu](http://www.nitt.edu)

Phone: 0431 – 2503024



# TENDER DOCUMENT

Tender Notification No.: NITT/HOSPITAL-EQUIPMENT/INSTRUMENT  
FOR RECOVERY ROOM/ICU/2010-11

Dated: **25-06-2010**

Name of the component : **EQUIPMENT / INSTRUMENT FOR RECOVERY ROOM/ICU**

Quantity required : **ONE**

EMD Amount : **Rs.4000/-**

Delivery : Within 3 weeks from the date of purchase order

Last Date of submission of Tender : **23-07-2010 upto 3.00 p.m.**

Address for submission of Tender :  
**The Director**  
National Institute of Technology  
Tiruchirappalli – 620 015

Date of opening of technical bid : **23-07-2010 at 3:30 p.m.**



**NATIONAL INSTITUTE OF TECHNOLOGY  
TIRUCHIRAPPALLI – 15**

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**HOSPITAL**

**Tender Notification No.:06/2010-11**

**Dated: 25-06-2010**

**NOTICE INVITING TENDER**

The National Institute of Technology, Tiruchirappalli (NITT) is one among the Institution & National Importance coming under Act of Parliament viz., NITs Act 2007, imparting Technical Education and engaged in Research Activities. It is proposed to procure the following component for NITT Hospital.

Sealed Quotations under ***two cover system*** are invited for the following component subject to the following terms and conditions, from the reputed manufacturers or their authorized dealers so as to reach this office on or before scheduled date and time. The technical cover will be opened on the same day in the presence of bidders or their authorized agents who may choose to be present.

Name of the component : **EQUIPMENT / INSTRUMENT FOR RECOVERY ROOM/ICU**

Quantity required : ONE

EMD : Rs.4000/-

Time for completion of supply three weeks from the date of purchase order :

Last Date of submission of Tender : **23-07-2010 upto 3.00 p.m.**

Tender to be submitted at the following address:

**The Director**  
National Institute of Technology  
Tiruchirappalli – 620 015

***Place, Date and time of opening of technical bid:***

**Date: 23-07-2010 Time: 3:30 PM Venue : The Associate Dean (Administration) Office**

**Note :** The Institute shall not be responsible for any postal delay about non-receipt / non delivery of the bids or due to wrong address.

## SECTION : 1 INSTRUCTION TO BIDDER

1. The bidder should give details of their technical soundness and provide list of customers of previous supply of similar items to Universities/Institutes or Government Departments/Undertakings/public sectors with contact details. The details of the agency/profile should be furnished along with the copy of all related documents.

### 1.1 Bids are to be submitted under two cover system.

#### Cover 1:

#### Cover 1 should contain the following:

- a. **EMD by Demand Draft drawn on any scheduled bank in favour of "The Director, NIT, Trichy" payable at Trichy should be submitted. EMD shall bear no interest. Any bid not accompanying with EMD is liable to be treated as non-responsive and rejected.**
- b. **Technical pamphlets**
- c. **Detailed technical specification**
- d. **The agency should furnish copy of license certificate for manufacture/supply of the item.**
- e. **The agency should furnish Income Tax PAN number**
- f. **Warranty period offered for the tendered item to be specified. If the warranty period is not conforming with the schedule of requirements given in section 3 of the document, the bid is liable to be treated as non-responsive and rejected.**
- g. **Duly filled up technical questionnaire, if any**
- h. **Duly filled up deviation schedules to technical specification**
- i. **Copy of supply orders completed during the last three years ending 31-12-2010.**
- j. **If the prices are revealed in the cover 1, the offer will be summarily rejected**

- 1.2 **The cover 1 shall be superscribed as 'Technical cover' duly indicating the Tender reference No. and the due date of opening.**

#### 1.3 Cover 2:

#### Cover 2 should contain the following

**Cover 2 shall contain Price only and shall be superscribed as 'Price Cover' duly indicating the Tender Reference No. and the due date of opening.**

**Each Cover shall be sent in a double sealed cover. The inner covers (Cover 1 and Cover 2) should be sealed individually with the sellers's distinctive seal and superscribed with the tender reference no. and due date of opening. Both the inner covers shall be placed in a common outer cover which shall also be sealed with seller's distinctive seal and superscribed with the tender reference no. and due date of opening.**

**Mention "Kind Attention: Associate Dean (Administration), and submit at the address given in the Notice Inviting Tender.**

**Cover 1 will be opened on the scheduled date and time mentioned in the tender enquiry. Cover 2 of the technically and commercially suitable offers alone will be opened on a date which will be intimated to the qualified bidders.**

2. The agencies should submit their rate as per the format given in Section 4 of the Notice Inviting Tender in this cover. Rate should be quoted in Indian Rupee. The rate should be quoted both in

- words and figures. All the pages of the bid should be signed affixing the seal. All corrections and overwriting should be initialed. In the case of imported items quoted for CIF Chennai.
3. The tender will be acceptable only from the manufacturers or their authorized supplier.
  4. The bid shall be in the format of price schedule given in Section 4. The contract form as per format given in section 5 shall be submitted. Incomplete or conditional tender will be rejected.
  5. Details of quantity and the specifications are mentioned in Section 3 appended to this Notice Inviting Tender.
  6. The item to be supplied should be strictly according to the specification and subject to test by the Institute/concerned authorities. It must be delivered and installed in good working condition.
  7. The Institute reserves the right to cancel or reduce the quantity included in the schedule of requirements at any time after acceptance of the tender with a notice. The Contractor/Supplier shall have no claim to any payment of compensation or otherwise whatsoever, on account of any profit or advantage which he might have derived from the execution of the work/supply in full but he did not derive in consequence of the foreclosure of the whole or part of the works.
  8. Performance Security of 5% of the contract value in terms of Bank guarantee by Scheduled Banks/National Banks shall be given by the successful bidder for the total period of warranty.
  9. **Release of EMD:** The EMD shall be released after receipt of performance security from successful bidder.
  10. **Validity of bids:** The rate quote should be valid for a minimum of 90 days. No claim for escalation of rate will be considered after opening the Tender.
  11. **Imports:** In case, goods are to be imported, the Indian agent should furnish authorization certificate by the principals abroad for submission of the bid in response to this Notice Inviting Tender.
  12. **Clarification on Tender Document:** A prospective bidder requiring any clarification on Tender document may communicate with the contact person given in this notice inviting tender.
  13. **Amendment of tender document:** At any time prior to the last date of receipt of bids, Institute may for any reason, whether at its own initiative or in response to a clarification requested by prospective bidder, modify the Tender document by an amendment.
  14. ***The Institute may at its own discretion extend the last date for the receipt of bids.***
  15. The bids shall be written in English language and any information printed in other language shall be accompanied by an English translation, in which case for the purpose of interpretation of the bid, the English translation shall govern.
  16. The Institute reserves the right of accepting any bid other than the lowest or even rejecting all the bids without assigning any reasons therefor. The decision of the Institute Purchase Committee is final in all matters of tender and purchase.
  17. The bidder should give the following declaration while submitting the Tender.

**DECLARATION**

I/we have not tampered/modified the tender forms in any manner. In case, if the same is found to be tampered/modified, I/we understand that my/our tender will be summarily rejected and full Earnest Money Deposit (EMD) will be forfeited and I/we am/are liable to be banned from doing business with NIT, Trichy and /or prosecuted.

**Signature of the Bidder** : .....

**Name and Designation** : .....

**Business Address** : .....  
.....  
.....

**Place :**

**Date :**

**Seal of the Bidder's Firm**

18. Any other details required may be obtained from the contact person given in the notice inviting tender during the office hours.

## SECTION : 2 CONDITIONS OF CONTRACT

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1. The rates should be quoted in Indian Rupee FOR NIT, Trichy for supply within India.
2. In case of import both CIF, Chennai and / or FOB rate should be quoted. All components of expenditure to arrive at Chennai need to be explicitly specified.
3. The bidder shall indicate the excise duty exemption for the goods if applicable
4. The Institute is eligible for customs duty and excise duty exemption.
5. The rate quoted should be on unit basis. Taxes and other charges should be quoted separately, considering exemptions if any.
6. Rate quoted should be inclusive of Testing, commissioning and installation of equipment and training.
7. **Payment** : No advance payment will be made. Payment will be made only after the supply of the item in good and satisfactory condition and receipt of performance security by supplier. In case of imports, the payment will be made through LC after installation and performance security need to be submitted at the time of LC commitment.
8. Guarantee and Warrantee period should be specified for the complete period conforming to the section 3 of this tender document.
9. Period required for the supply and installation of item should be specified conforming to the section 3 of this tender document.
10. In case of dispute, the matter will be subject to Tiruchirappalli, Tamil Nadu Jurisdiction only.

## SECTION : 3 SCHEDULE OF REQUIREMENTS, SPECIFICATIONS AND ALLIED DETAILS

### TECHNICAL SPECIFICATIONS OF THE RECOVERY ROOM EQUIPMENT/INSTRUMENT

S. No	Item Required	Specifications	No. units required
1.	<b>Fowler Bed:</b>	<p>Dimensional Specifications: Overall Dimensions: 2272 mm x 1048 mm x 610mm (L xW x H) One manual operating function back rest, LDPE Head &amp; Foot Board fixed on the bed frame with an in built nylon sleeve LDPE is bacteriostatic with additives formulated to fulfill the requirement for bacterial protection against at least 2 commonly found bacteria in hospital environment (Gram Positive and Gram Negative) Two MS powder coated pull down side rails with push button mechanism for operation Two section lying surface made of mild steel of 3 mm thickness having bacteriostatic additives &amp; joined by corrosion resistant joineries Four impact cushioning buffers at the corners having 40-50 shore hardness Ergonomically designed plastic handles having outward locking mechanism in 90 deg position. Handle levers fold compactly upwards with snap fit when not in use. Handles are self locking with a brass insert and a chrome plated knob with a nylon grip. Powder coating is bacteriostatic and thermosetting epoxy polyester with additives formulated to fulfill the requirements for bacterial protection against at least 2 commonly found bacteria in hospital environment (Gram Positive and Gram Negative) Sleek base frame with ground clearance of 165 mm providing high degree of stability Back rest angular movement: 70 deg Knee rest angular movement: 24 deg Safe working Load: 230 kg Maximum patient Load: 135 kg Specified Mattress Height: 100 mm Plastic injection molded castors of 125 mm diameter with dual locking arrangement All edges in contact with patient to be rounded safely.</p>	2
2	<b>Oxygen Cylinder :</b>	<p><b>Gas Filled A Type</b> <b>Gas Filled B Type</b></p>	1
3	<b>Suction apparatus</b>	<p>Noise level of suction apparatus is 50 dB+/-3 dB Rotary vane type vacuum pump with -720+/- 10 mm Hg Free air displacement 30-35 lpm Electrical requirement 220 -230 V, 50 Hz, single phase Heavy duty HN-50 antistatic castors Electric motor: 180 W, 1440 rpm, 0.25 hp Non collapsible PVC tubing 2 x 1.5 Ltrs poly carbon jars with overflow safely All parts coming into contact with secretion are autoclave safe.</p>	1

**TECHNICAL SPECIFICATIONS OF THE ICU EQUIPMENT/INSTRUMENT**

S. No	Item Required	Specifications	No. units required
1.	ICU Bed	<p>Dimensional Specifications:  Overall Dimensions: 2272 mm x 1048 mm x 470-760 mm (L xW x H)  Four mechanical operating functions of Hi-Lo, Trend/reverse trend, back rest and knee rest  LDPE Head &amp; Foot Board fixed on the bed frame with an in built nylon sleeve  LDPE is bacteriostatic with additives formulated to fulfill the requirement for bacterial protection against at least 2 commonly found bacteria in hospital environment (Gram Positive and Gram Negative)  Two MS powder coated pull down side rails with push button mechanism for operation  Two section lying surface made of mild steel of 3 mm thickness having bacteriostatic additives &amp; joined by corrosion resistant joineries  Four impact cushioning buffers at the corners having 40-50 shore hardness  Ergonomically designed plastic handles having outward locking mechanism in 90 deg position. Handle levers fold compactly upwards with snap fit when not in use. Handles are self locking with a brass insert and a chrome plated knob with a nylon grip.  Means of indication for correct height to operate trendelenburg/reverse trendelenburg is provided  Synchronised linear roller mechanism simplifies the understructure and facilities hygiene operation. Also requires minimum effort to operate due to low torque levels  Powder coating is bacteriostatic and thermosetting epoxy polyester with additives formulated to fulfill the requirements for bacterial protection against at least at least 2 commonly found bacteria in hospital environment (Gram Positive and Gram Negative)  Sleek base frame with ground clearance of 165 mm providing high degree of stability  Minimum &amp; Maximum Height: 470 mm &amp; 760 mm  Observation Height: 610 -630 mm  Back rest angular movement: 70 deg  Knee rest angular movement: 10 deg  Trendlenburg : 10 deg  Reverse Trendlenburg : 08 deg  Safe working Load: 230 kg  Maximum patient Load: 135 kg  Specified Mattress Height: 100 mm  Plastic injection molded castors of 125 mm diameter with dual locking arrangement  All edges in contact with patient tobe rounded safely</p>	2
2	<b>Instrument Trolley:</b>	Overall approx. size: 760 mm (L) x 510 mm (W) x 900 mm (H) (Shelf Size: 750 mm (L) x 500 mm (W)). SS Tabular frame mounted on four castors, Two SS Shelves with protective railing on all four sides, supported in kdc	1
3	<b>Theatre Drug trolley:</b>	Overall approx. size: 760 mm (L) x 510 mm (W) x 900 mm (H) (Shelf Size: 750 mm (L) x 500 mm (W)). SS Tabular frame mounted on four castors 4'' Swivel castor, Epoxy powder coated, Two SS Shelves with protective railing on all four sides, supported in kdc , Laminated Shelves: 2 Nos, PVC Bins 35 Nos,	1
4	<b>Resuscicator</b>	<p><b>GENERAL SPECIFICATI ONS</b>  Patient connector : 22 /15 mm  Expiration connector (for PEEP valve attachment) : 30 mm male  Leaks (both ways) : Non-measurable  Bag reservoir volume : 1500 ml</p> <p><b>SPECIFICATIONS ADULT</b>  Application : Pulmonary resuscitation of adults and children with a body weight of</p>	1



more than approx. 30 kg

Maximum stroke volume	:	1500 ml
Maximum bag volume	:	2000 ml
Length x diameter (including patient valve)	:	305 x 135 mm

Weight of the resuscitator (with patient valve, without oxygen reservoir and mask) : 375 g

Maximum frequency of ventilation :

Depends on the tidal volume used. The rate of expansion of the bag is sufficiently fast for all frequencies recommended for practical use.

Dead space	:	< 5 ml
Inspiratory resistance at 50 l/min	:	-0,38 kPa (-3,8 cmH <sub>2</sub> O)

Expiratory resistance : - at 50 l/min 0,24 kPa (2,4 cmH<sub>2</sub>O)

Maximum attainable delivery pressure with compliance of 0,2 l/kPa : Approx. 11,5 kPa (115 cmH<sub>2</sub>O)

Pressure-limiting system : None

Inspiratory resistance of the oxygen reservoir bag (without supply of oxygen) at 50 l/min : -0,16 kPa (-1,6 cmH<sub>2</sub>O)

Application temperature : -18°C to 50°C

Storage temperature : -40°C to 70°C

**SPECIFICATIONS (infant/child)**

Application: Pulmonary resuscitation of neonates, infants and children with a body weight of up to approx. 30 kg (approx. 9 years)

Maximum stroke volume	:	450 ml
Maximum bag volume	:	700 ml
Length x diameter (including patient valve)	:	240 x 90 mm

Weight of the resuscitator (with patient valve, without oxygen reservoir and mask) : 240 g

Maximum frequency of ventilation :

Depends on the tidal volume used. The rate of expansion of the bag is sufficiently fast for all frequencies recommended for practical use.

Dead space	:	< 5 ml
Inspiratory resistance at 50 l/min	:	-0,38 kPa (-3,8 cmH <sub>2</sub> O)
Expiratory resistance at 50 l/min	:	0,24 kPa (2,4 cmH <sub>2</sub> O)

Maximum attainable delivery pressure with compliance of 0,2 l/kPa : Approx. 9,0 kPa (90 cmH<sub>2</sub>O)

Pressure-limiting system : Pressure-limiting valve opening pressure Approx. 4 kPa (40 cmH<sub>2</sub>O)

Inspiratory resistance of the oxygen reservoir bag (without supply of oxygen) at 50 l/min : -0,16 kPa (-1,6 cmH<sub>2</sub>O)

Application temperature : -18°C to 50°C

Storage temperature : -40°C to 70°C

**SPECIFICATIONS neonate**

Application : Pulmonary resuscitation of neonates and infants with a body weight of up to approx. 10 kg

Maximum stroke volume	:	150 ml
Maximum bag volume	:	220 ml
Length x diameter (including patient valve)	:	295 x 70 mm

Weight of the resuscitator (with patient valve, without oxygen reservoir tube and mask) : 129 g

Maximum frequency of ventilation :

Depends on the tidal volume used. The rate of expansion of the bag is sufficiently fast for all frequencies recommended for practical use.

Dead space	:	< 6 ml
Inspiratory resistance at 5 l/min	:	-0,10 kPa (-1,0 cmH <sub>2</sub> O)
Expiratory resistance at 5 l/min	:	0,10 kPa (1,0 cmH <sub>2</sub> O)

Maximum attainable delivery pressure with compliance of 0,01 l/kPa : Approx. 11,5 kPa (115 cmH<sub>2</sub>O)

Pressure-limiting system : Pressure-limiting valve opening pressure Approx. 4 kPa (40 cmH<sub>2</sub>O)

		Tube reservoir volume : 100 ml Inspiratory resistance of the oxygen reservoir bag (without supply of oxygen) at 5 l/min : -0,10 kPa (-1,0 cmH <sub>2</sub> O) Application temperature : -18°C to 50°C Storage temperature : -40°C to 60°C	
5	<b>Pulse Oxymeter:</b>	Reusable adult finger sensor , Extension cable Power cord, Operator's manual	1

**SECTION : 4 PRICE SCHEDULE**

[To be used by the bidder for submission of the bid]

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- 1. Component Name :
  
- 2. Specifications (confirming to Section 3 of Tender document-enclose additional sheets if necessary) :
  
- 3. Currency and Unit Price (in case of Imported item value for CIF Chennai) :
  
- 4. Quantity :
  
- 5. Item cost (Sl.No.3 & Sl.No.4) (in Indian Rupee) :
  
- 6. Taxes and other charges :
  - (i) Specify the type of taxes and duties in percentages and also in figures
  - (ii) Specify other charges in figures :
  
- 7. Warranty period (conforming to the Section 3 of Tender document. This should be mentioned in Technical bid also in order to get qualified for Financial bid) :
  
- 8. Delivery Schedule (conforming to the Section 3 of Tender document) :
  
- 9. Name and address of the firm for placing purchase order :
  
  
- 10. Name and address of Indian authorized agent (in case of imports only) :

**Signature of the Bidder** : .....

**Name and Designation** : .....

**Business Address** : .....  
.....  
.....

**Place** :

**Date** :

**Seal of the Bidder's Firm**

**SECTION : 5 CONTRACT FORM**

[ To be provided by the bidder in the business letter head ]

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1. {Name of the Supplier's Firm) hereby abide to deliver the .....by the delivery schedule mentioned in the Section 3 tender document for supply of the items if the purchase order is awarded.
2. The item will be supplied conforming to the specifications stated in the tender document without any defect and deviations.
3. Warranty will be given for the period mentioned in the tender document and service will be rendered to the satisfaction of NIT, Trichy during this period.

**Signature of the Bidder** : .....

**Name and Designation** : .....

**Business Address** : .....  
.....  
.....

**Place :**

**Date :**

**Seal of the Bidder's Firm**