

**ALL INDIA INSTITUTE OF MEDICAL SCIENCES,  
STORE SECTION (DO), 1<sup>ST</sup> FLOOR, ANIMAL HOUSE,  
ANSARI NAGAR, NEW DELHI-110 029, INDIA**

# **TENDERENQUIRY DOCUMENT**

**(Two Bid System for Machinery & Equipments)**



**Advertised Tender Enquiry No.:** XX-150/SO(DO)/Paed.Surg./24-25/M&E

**Brief Description of Goods** : Purchase of ECMO - 01 No.

**SECTION-I**



**ALL INDIA INSTITUTE OF MEDICAL SCIENCES  
ANSARI NAGAR, NEW DELHI-110 029  
TENDERS ENQUIRY DOCUMENTS (TED)**

**Advertised Tender Enquiry No : XX-150/SO(DO)/Paed.Surg./2024-25/M&E**

**On behalf of Director, AIIMS, Ansari Nagar, New Delhi-110 029, online bids are invited in two bid system (Techno-Commercial Bid and Financial Bid) from reputed, eligible and qualified firms/manufacturer for supply of following Goods:**

S. No.	Brief Description of Goods	Quantity	Amount of Bid Security/EMD
1.	Purchase of ECMO	01 No.	INR Rs. 1,90,000/-

**CRITICAL DATE SHEET**

Published Date & Time	25-11-2024 at 06.00 pm
Bid Document Download/Sale Start Date	25-11-2024 at 06.00 pm
Seek Clarification Start Date	25-11-2024 at 06.00 pm
Seek Clarification End Date	29-11-2024 at 04.00 pm
Pre Bid Meeting	03-12-2024 at 02-30 pm
Pre Bid Meeting Place & Address	Room No. 761, Seminar Room, 7 <sup>th</sup> floor, Department of Paed. Surgery (MCH Block)
Bid Submission Start Date & Time	13-12-2024 at 04.00 pm
Bid Submission End Date & Time	30-12-2024 (Monday) at 03.00 pm
Bid Opening Date & Time	31-12-2024 (Tuesday) at 03.00 pm

## Section – VII

### TECHNICAL SPECIFICATION AND GENERAL POINTS

#### Specifications of E-CMO (extracorporeal membrane oxygenation)

Quantity: 1

Specifications

1. Console, which is small, compact, light in weight, movable with big lockable castor wheels. Console should have a 10 inch or more touchscreen for display and control.

2. Machine with:

- A. Console
- B. Centrifugal drive integrated with Oxygenator holder
- C. Arterial flow bubble sensor.
- D. Venous bubble sensor.
- E. Emergency drive.
- F. Heater Unit
- G. Air Oxygen blender

3. Detailed specification for each component:

- Compact, lightweight, have single holder for drive and oxygenator to enable easy in hospital transport.
- Adjustable Fixation point assembly and Compact holder assembly for flexible fixing of the drive and oxygenator.
- Make available of separate centrifugal cone, compatible with centrifugal drive unit minimum for 10years.
- Locking mechanism to lock the pump disposable.
- Interactive touch screen interface.
- Back up emergency mode for touch screen failure.
- Automatic touch screen lock.
- Ability to unlock touch screen through button and on screen.
- RPM speed 0-5000 rpm.
- Flow Rate 0-9.99 liters per minute.
- Option to adjust RPM both through knob and on the touch screen.
- Flow rate sensor that fits into tubings of all size (1/2, 3/8, 1/4)
- Arterial flow bubble and venous bubble sensor.
- Options to independently activate and deactivate sensors.

- User set alarm limits for flow rate displayed on the LPM indicator for easy identification.
- LPM Zero calibration of flow sensor should be displayed on screen.
- Ability to sense back flow and instruct to prevent back flow when sensor is at.
- Estimate the time on battery capacity and calibration status.
- Battery backup for minimum 1.5 hours or more and display approximate fuel up time left.
- Built in user guideline for stepwise set up, priming and functional test.
- In case of any error message, an acoustic alarm sound along with display on the touch screen.
- Inbuilt alarm help function.
- Emergency drive.

#### Heater Unit:

- Temperature setting range of water temperature between 35 to 39 degree Centigrade.
- Digital display for set & outlet temperature & capable of showing alarm indications.
- Water reservoir capacity less than 2 liter.

#### Oxygenator

- Pumphead should be suitable for neonate, infant and child
- Should allow for easy de-airing of membrane

#### Miscellaneous:

- Advanced case design maximizing safety and convenience to move the complete unit anywhere.
- Standard I.V. pole.
- Convenient oxygen cylinder storage facility.
- Mechanical Gas Blender.
- CE certified.

#### HOQ of all items to be provided

- List all consumables with price and life (number of uses or number of days)
- 5 set of consumables to be supplied in a staggered manner as per the date of expiry.
- Cannulation kit to be added in the set.
- Additional elements with all necessary connections ensure the proper operation of the devices.

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