



INSTITUTE OF LIVER & BILIARY SCIENCES
(An Autonomous Society under Govt. of NCT of Delhi)

D-1, VASANT KUNJ, NEW DELHI-110 070

ILBS/NIT/ ECG Machine/2008

30.10.2008

To,
M/s.....
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Last Date of Tender Submission : 10.11.2008 UPTO 2:30 PM
Technical Bid Opening : 10.11.2008. at 3:00 PM

SUB: Supply, installation & commissioning of ECG Machine.

Sir,

Please quote your minimum rate for supply of **ECG Machine** as mentioned below including safe delivery, installation & commissioning of the same up to ILBS Vasant Kunj, New Delhi.

<u>Sno</u>	<u>Description</u>	<u>Qty</u>
1.	ECG Machine	1 No.

(Technical details as per the ANNEXURE-C attached)

TERMS & CONDITIONS: _

- Prices quoted should be upto FOR ILBS Vasant kunj, New Delhi basis. (i.e. including freight upto ILBS Vasant kunj, New Delhi but excluding Taxes & Duties, if any, which will be paid as per actual.
- Payment : 80% Payment for Indian/indigenous items will be released against after satisfactory receipt and acceptance of all ordered items in good condition at ILBS Vasant Kunj, New Delhi along with invoice and all the necessary test certificates/inspection certificates (where applicable) and balance 20% within 30 days on due certification by the indenter of the successful completion of



installation & commissioning of the equipment for which the machine's/equipment's/ performance would have to be demonstrated by the supplier or his agent, after commissioning at the consignee's premises.

3. **Offers should be submitted in two bid system** i.e. One Envelope containing **TECHNICAL BID** in sealed condition and other envelope containing only **PRICE BID** in another sealed envelope. Both sealed envelopes to be kept in a bigger envelope and in sealed condition super scribing the tender reference on top of the envelope.
4. Your offer should mention clearly regarding Validity of offer, VAT, Earliest delivery period etc. clearly in Technical Bid as well as in Price Bid. The offer should be valid for our acceptance for 120 days from the date of technical bid opening.
5. The warranty for the product should be for a minimum period of 1 year on site.
6. Liquidated damages @ 0.5% per fortnight will be applicable subject to a maximum of 5% value of the order for delayed supply.
7. Conditional offer will be liable for rejection.
8. All tenderer should forward a declaration in enclosed format, which should form a part of tender document. Tenders received without this declaration will not be considered.
9. Please also attach list of users in Delhi.
10. Installation & commissioning to be done free of cost at our end.

(P.K.SRIVASTAVA)
Deputy Manager (Purchase)

- Encl: 1. Declaration form ANNEXURE-A
2. Price Bid ANNEXURE-B
3. Technical Specifications ANNEXURE-C



ANNEXURE-A

DECLARATION

I declare that I will abide by all the conditions set forth in the Tender Notification No. **ILBS/LTE/ECG Machine/2008** dated 30.10.2008, issued by the Institute of Liver & Biliary Sciences, New Delhi calling for tenders for supply of with all the essential accessories/spares.

TENDERER'S SIGNATURE



ANNEXURE-B

ILBS/NIT/ ECG Machine/2008

PRICE BID

(To be kept in a separate sealed envelope duly superscribed 'PRICE BID')

<u>Sl No</u>	<u>Description</u>	<u>Unit Rate (Rs.)</u>	<u>Qty</u>	<u>Amount(Rs.)</u>
1	ECG Machine		11 Nos.	

1. Taxes
2. Duties
3. Freight upto ILBS, Vasant Kunj, New Delhi

Tenderer Signature

ANNEXURE-C

TECHNICAL BID

(To be kept in a separate sealed envelope duly superscribed 'TECHNICAL BID')

SPECIFICATION OF E.C.G MACHINES

TECHNICAL

1. The ECG machine should be able to acquire all 12 lead simultaneously and interpret them for both adult and pediatric patient.
2. Should have real time colour display of ECG waveform with signal quality indication for each lead.
3. Should have artifact, AC and low high pass frequency filters.
4. Should have a storage memory of at least 50 ECG with easy transfer by optional modem and data card.
5. Should have full screen preview of ECG report for quality assessment prior to print.
6. Should have interpretation facility of ECG waveform.
7. Should have alphanumeric keyboard for patient data entry (virtual or hard keys).
8. Should have high resolution (200 dpi x 500 dpi on 25 mm/sec speed) digital array A4 size printer using thermal sensitive paper.
9. Should have report formats of 3 x 4; 6 x 2; Rhythm for upto 12 selected leads; 12 lead extended measurements, 1 minute of continuous waveform data for 1 selected lead.
10. Should be able to be connected to HIS / LAN / Wireless LAN (Optional)
11. Should have battery capacity of at least 30 ECGs or 30 minutes of continuous rhythm recording on single charge.
12. Should display ECG on LCD / TFT Display of 640 x 480 pixels resolution.
13. USB support (Optional) for storage on external portable memories.
14. Multimode of ECG storage capability on Floppy (min 2), 150 ECG on internal flash memory.

SYSTEM CONFIGURATION:

1. ECG machine 12 leads with interpretation- 01
2. Patient cable – 02
3. Chest Electrode Adult- (Set of six) - 02 sets.
4. Chest Electrode Pediatrics –(Set of six) – 02 sets.
5. Limb Electrodes (Set of 4) – 02 sets.
6. Thermal paper A4 size for 500 patients.

ENVIRONMENTAL FACTORS:

1. The unit shall be capable of operating continuously in ambient temperature of 10-40°C and relative humidity of 15-90%.



2. The unit shall be capable of being stored continuously in ambient temperature of 0-50°C and relative humidity of 15-90%.
3. Shall meet IEC –60601-1-12:2001 (or Equivalent BIS) General Requirements of safety for Electromagnetic Compatibility.
4. Power input to be 220-240 VAC, 50 Hz fitted with Indian Plug.

STANDARDS AND SAFETY

1. Should be FDA or CE approved product.
2. Electrical safety conforms to standards for electrical safety IEC-60601-1. General requirements and IEC-60601-2-125 safety of Electrocardiograms(or Equivalent BIS standard).

DOCUMENTATION

1. User manual in English.
2. Service manual in English.
3. List of important spare parts and accessories with their part number and costing.
4. Certificate of calibration and inspection from factory.
5. Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
6. List of equipments available for providing calibration and routine. Preventive maintenance support as per manufacturer documentation in service / technical manual.