Sealed and superscribed item wise tenders in Single bid and Double bid system are invited from manufacturers/authorized dealers/distributors for the supply of quality Equipments/Instruments for the departments of General Surgery, ICU&ICCU, ENT, Orthopaedics, Biochemistry, Pathology, Paediatrics, Ophthalmology, Dentistry, Physiotherapy and Casualty of ESIC Hospital, K.K.Nagar, Chennai - 78.

Detailed information regarding the items, application/tender forms, EMD, specifications, terms & conditions can be downloaded from the websites: www.esipgimsrchennai.org/ www.esic.nic.in/ www.esichennai.org.

The EMD amount & application fee should be enclosed in a separate cover along with the tender documents.

Date and Time for submission of Tender:

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>GROUP</th>
<th>LAST DATE FOR RECEIPT OF TENDER</th>
<th>DATE AND TIME FOR OPENING OF TENDER</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>A</td>
<td>03.02.2015 - 11.00 A.M.</td>
<td>03.02.2015- 11.30 A.M.</td>
</tr>
<tr>
<td>2</td>
<td>B</td>
<td>04.02.2015 - 11.00 A.M.</td>
<td>04.02.2015 - 11.30 A.M.</td>
</tr>
</tbody>
</table>

Pre-bid conference for Group-A Equipments: 28.01.2015 - 11.00 A.M. in DMS Chamber

If the date of opening of tender happens to be a holiday, the tender will be opened on the next working day. Tender documents duly completed should be dropped on or before the date and time mentioned above in the tender box kept at the First floor of ESIC Hospital, K.K.Nagar, Chennai -78.

The undersigned reserves the right to accept or reject any or all the bids without assigning any reason at any stage.

MEDICAL SUPERINTENDENT
Sealed tenders are invited by Medical Superintendent ESIC Hospital K.K.Nagar, Chennai - 78 for the supply of following items.

<table>
<thead>
<tr>
<th>Sl.No</th>
<th>Name of the Item</th>
<th>Qty</th>
<th>EMD (in Rs.)</th>
<th>Cost of Application (in Rs.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>GROUP- A (DOUBLE BID SYSTEM)</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>DEPARTMENT OF PAEDIATRICS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>1</td>
<td>Defibrillator with CPR Capability &amp; Monitoring with Pacing</td>
<td>1</td>
<td>14400</td>
<td>250</td>
</tr>
<tr>
<td>2</td>
<td>Bubble CPAP</td>
<td>1</td>
<td>10500</td>
<td>250</td>
</tr>
<tr>
<td>3</td>
<td>Multi-Parameter vital sign Monitor</td>
<td>7</td>
<td>91500</td>
<td>250</td>
</tr>
<tr>
<td><strong>DEPARTMENT OF ORTHOPAEDICS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>Pneumatic Tourniquet</td>
<td>2</td>
<td>6000</td>
<td>250</td>
</tr>
<tr>
<td>5</td>
<td>Battery Operated Drill System</td>
<td>1</td>
<td>21000</td>
<td>250</td>
</tr>
<tr>
<td>6</td>
<td>Pneumatic Drill System</td>
<td>1</td>
<td>18000</td>
<td>250</td>
</tr>
<tr>
<td><strong>DEPARTMENT OF BIOCHEMISTRY</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>Glycosylated Haemoglobin (A1C) Analyser</td>
<td>1</td>
<td>42000</td>
<td>250</td>
</tr>
<tr>
<td>8</td>
<td>Centrifuge</td>
<td>1</td>
<td>6600</td>
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<tr>
<td><strong>DEPARTMENT OF PATHOLOGY</strong></td>
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</tr>
<tr>
<td>9</td>
<td>Cytocentrifuge (Cytospin)</td>
<td>1</td>
<td>12000</td>
<td>250</td>
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<tr>
<td><strong>DEPARTMENT OF GENERAL SURGERY</strong></td>
<td></td>
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<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>Endoscopic Stabler set</td>
<td>1</td>
<td>3750</td>
<td>250</td>
</tr>
<tr>
<td><strong>DEPARTMENT OF OPHTHALMOLOGY</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>Slit Lamp</td>
<td>1</td>
<td>15000</td>
<td>250</td>
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<tr>
<td>12</td>
<td>Operating Microscope (with TV unit-Preferable)</td>
<td>1</td>
<td>45000</td>
<td>250</td>
</tr>
<tr>
<td>13</td>
<td>Operating table with Foot control</td>
<td>1</td>
<td>3000</td>
<td>250</td>
</tr>
<tr>
<td>14</td>
<td>ENT</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Nasal Endoscope 4mm 70degree</td>
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<td>4740</td>
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<tr>
<td>SL.No</td>
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<td>Qty</td>
<td>EMD (in Rs.)</td>
<td>Cost of Application (in Rs.)</td>
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<tr>
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<td>----------------------------</td>
</tr>
<tr>
<td>15</td>
<td>Double Sided CFL Phototherapy Unit</td>
<td>2</td>
<td>4500</td>
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</tr>
<tr>
<td>16</td>
<td>Digital baby weighing machine</td>
<td>1</td>
<td>990</td>
<td>250</td>
</tr>
<tr>
<td>17</td>
<td>Pulse oximeter</td>
<td>5</td>
<td>9300</td>
<td>250</td>
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<tr>
<td>18</td>
<td>Dental Lathe</td>
<td>3</td>
<td>750</td>
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<tr>
<td>19</td>
<td>Dental Autoclave with all accessories</td>
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<td>1800</td>
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<tr>
<td>20</td>
<td>Brushless Lab Micromotor</td>
<td>2</td>
<td>4500</td>
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<tr>
<td>21</td>
<td>Micro Surveyor</td>
<td>1</td>
<td>550</td>
<td>250</td>
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<tr>
<td>22</td>
<td>Dental Assistance stool with Back rest</td>
<td>4</td>
<td>1200</td>
<td>250</td>
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<tr>
<td>23</td>
<td>NO FLAME PLUS</td>
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<tr>
<td>24</td>
<td>Palatal Trimmer</td>
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<td>450</td>
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<td>25</td>
<td>Wax Carver (Electric)</td>
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<td>500</td>
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<td>26</td>
<td>Semi Adjustable Articulators</td>
<td>2</td>
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<tr>
<td>27</td>
<td>Hydraulic Bench Press</td>
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<tr>
<td>28</td>
<td>Vibrator Big square with Rubber Cap</td>
<td>2</td>
<td>360</td>
<td>250</td>
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<tr>
<td>29</td>
<td>Polymerisation Unit (Palko Bath)</td>
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<td>2400</td>
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<td>30</td>
<td>Fumigation machine</td>
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<td>600</td>
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<td>31</td>
<td>Cryo Unit</td>
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<tr>
<td>32</td>
<td>Ophthalmoscope (Direct)</td>
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<td>33</td>
<td><strong>UROLOGY</strong> Lithoclast Machine</td>
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<tr>
<td>34</td>
<td><strong>General Surgery</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>2.5Xloupe for optical magnification with 420mm (or) 450mm working distance</td>
<td>1</td>
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<tr>
<td>35</td>
<td>Syringe pumps</td>
<td>8</td>
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<tr>
<td>36</td>
<td>Infusion pumps</td>
<td>8</td>
<td>18600</td>
<td>250</td>
</tr>
<tr>
<td>37</td>
<td>Crash cart</td>
<td>1</td>
<td>1500</td>
<td>250</td>
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<td>38</td>
<td>Intensive care patient Trolley</td>
<td>1</td>
<td>3000</td>
<td>250</td>
</tr>
<tr>
<td>39</td>
<td>Nebulizer</td>
<td>1</td>
<td>1200</td>
<td>250</td>
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<tr>
<td>40</td>
<td><strong>Physiotherapy</strong></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>Continuous passive motion (CPM Machine)</td>
<td>1</td>
<td>1500</td>
<td>250</td>
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<td>41</td>
<td><strong>ENT</strong></td>
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<tr>
<td></td>
<td>Otoscope</td>
<td>2</td>
<td>900</td>
<td>250</td>
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</tbody>
</table>
Annexure- II

TERMS AND CONDITIONS FOR THE SUPPLY OF HOSPITAL EQUIPMENTS/INSTRUMENTS
TO THE MEDICAL SUPERINTENDENT, K.K.NAGAR, CHENNAI-78.

1. The sealed envelope containing the completed tender superscribed as “TENDER FOR THE SUPPLY OF ……………………” (name of the equipment) should be addressed to The Medical Superintendent, ESIC Hospital, K.K.Nagar, Chennai-78, will be received upto the date and time stipulated.

2. FOR SINGLE BID SYSTEM:
The sealed envelope containing the completed tender superscribed as "SINGLE BID TENDER FOR THE SUPPLY OF EQUIPMENTS / INSTRUMENTS GROUP____(Group name) ______________(Name of the Equipment) for the Department of ______________________(Name of the department) Due on __________(Last date of submission)" should be addressed to The Medical Superintendent, ESIC Hospital, K.K.Nagar, Chennai - 78.

3. FOR DOUBLE BID SYSTEM:
The sealed envelope containing the completed tender superscribed as "TECHNICAL BID FOR THE SUPPLY OF EQUIPMENTS /INSTRUMENTS GROUP____(Group name) ______________(Name of the Equipment) for the Department of ______________________(Name of the department) Due on __________(Last date of submission) on the first envelope and " PRICE BID FOR THE SUPPLY OF EQUIPMENTS/INSTRUMENTS GROUP _____(Group name) ______________(Name of the Equipment) for the Department of ______________________(Name of the department) Due on __________(Last date of submission)" on the second envelope.
Both the envelopes are again to be sealed and put in a single envelope superscribing "TENDER FOR GROUP ____ (Group name) __________(Name of the Equipment) Due on __________(Last date of submission) should be addressed to The Medical Superintendent, ESIC Hospital, K.K.Nagar, Chennai -78.

4. Postal delays if any will not be condoned.

5. Tenders will be opened at Auditorium- Third Floor, ESIC Hospital, K.K.Nagar, Chennai-78. on the stipulated date & time in the presence of the tenderers / representatives who choose to be present.

6. The two part bids i.e. Techno-commercial(Unpriced Bid) and Price bid prepared by the Bidder shall comprise the following:

   (A). Techno-commercial Bid (Unpriced Bid): This should include the following:
   - Bid Security (EMD) and Cost of tender document should be furnished in accordance with instructions.
   - Detailed technical specification of items quoted along with catalogue/literature, make and model of the equipments offered without indicating price.
   - Statements of Deviations from tendered commercial conditions, if any.
   - Statement of deviations parameter wise from tendered specifications, if any.
   - Authority letter from manufacturer, in case bid is submitted by agents.
   - Bidders have to indicate the name and address of the bankers.
   - Documentary evidence that the goods and ancillary to be supplied by the bidder are eligible goods and services and conform to the bidding documents.
(B) Price Bid:

- The information given at Techno commercial bid should be reproduced in price bid with prices indicated. Any deviation in this regard will render the bid liable for rejection.
- Rates should be typed in words as well as in figures, free from erasing, cutting and overwriting.
- Price quoted should match with the items quoted in technical bid.
- Each and every page of the quotation should be separately numbered and duly signed.
- In case the price quoted cannot be matched with the items/quoted in technical bid, the bid shall be liable to be rejected.
- **The quoted price should be all inclusive lump sum price offered for each item including cost of the equipment, freight, Insurance, transit insurance, packing forwarding etc., and including charges for installation and commissioning with all men and material required for the same and including charges for the quoted warranty period. Rates and Sales Tax/VAT must be quoted separately.**
- **The rates quoted should be F.O.R ESIC Hospital, K.K.Nagar, Chennai - 78. No other charges in addition will be payable on any account over and above the lump sum price quoted in the price bid. The rates quoted in ambiguous terms such as "Freight on actual basis" or "Taxes as applicable extra" or "Packing forwarding extra" will render the bid liable for rejection.**
- In the two-bid system, only Techno-commercial bid (un-priced bid) will be opened first on the date mentioned in the presence of bidders who choose to be present. The price bid of the firm whose equipment is technically viable fulfilling the specifications and all other conditions alone will be considered for evaluation.
- A certificate that the quoted items have not been supplied to any other organization/institution at a rate, lower than quoted here should be enclosed.
- For imported goods, the price quoted shall not be higher than the lowest price charges by the tenderer for the goods of the same nature, class or description to a purchaser, domestic or foreign or to any organisation or department of Govt. of India.
- If it is found at any stage that the goods as stated have been supplied at a lower price, then that price, with due allowance for elapsed time will be applicable to the present case and the difference in cost would be refunded by the supplier to the purchaser, if the contract has already been concluded.

7. **Tender currencies:**
   - The tenderer supplying indigenous goods shall quote only in Indian Rupees.

8. **Bid Security (EMD)**
   Each tender must be accompanied by a EMD as mentioned against the equipment in the form of Demand Draft only drawn in favour of **The Medical Superintendent, ESIC Hospital, K.K.Nagar, Chennai-78, payable at Chennai.** The tenders not accompanied by EMD is liable for rejection. For EMD exemption, if any, necessary documents for exemption should be submitted, otherwise tender will be liable for rejection. Advance Stamp Receipt for the refund of EMD should be enclosed with the tender document.

9. The quotation should be type written and every correction in the tender should invariably be attested by full signature by the tenderer with date before submission of the tenders to the authorities concerned failing which the tender is liable for rejection.
10. Either the authorized Indian agent on behalf of the principal/OEM or principal/OEM himself can bid but both cannot bid simultaneously for the same item/product in the same tender.

11. If an agent submits bid on behalf of the principal/OEM, the same agent shall not submit a bid on behalf of another principal/OEM in the same tender for same item/product.

12. Copies of Purchase Order for having supplied the quoted equipment to Government Hospitals/ reputed institutions should be enclosed. The rates quoted in the purchase order should not be deleted or made illegible. A certificate duly authenticated from any other users of the equipment about satisfactory performance should also be enclosed.

13. Firms should also give a certificate that spares/ consumables/ reagents of the equipment quoted will be freely available at least for five years after warranty period.

14. The rates quoted should be valid for one year from the date of approval of the Tender and quantity mentioned is on the basis of present requirement which are to be supplied within the stipulated period mentioned in the tender. During the currency of Tender orders are to be executed by the successful Tenderer at the tender rate as per future requirements, therefore the quantity in the tender is indicative only and likely to increase.

15. Only the item/s of manufacturers or their authorized distributor/stockist would be considered.

16. Successful bidder shall not be entitled to any rate revision of price for any reason except that allowed by Government of India.

17. For the equipment where reagents, cartridge, other consumables, etc. are required the price bid must include: A) The rate list indicating the prices of the consumables prevalent on date of tendering. B) List should indicate the cost and life of consumables C) The rate for reagents, consumables etc. should remain constant for five years.

18. The equipments should be Guaranteed/ Warranted (Comprehensive) for a minimum period of three years from the date of satisfactory installation and inspection.

19. Tenderer should be able to demonstrate the product quoted by him to the Technical Evaluation Committee in Chennai within one week from the date of opening of tender.

20. The company will get only one chance for demo. In case the company fails to arrange the demo, the tender shall be liable for cancellation.

21. The date for demonstration shall be fixed with mutual consent on telephone/e-mail and the same shall be confirmed in writing or by fax. In any case not more than two weeks time shall be given to arrange for demo.

22. The successful bidder should furnish Performance Security Deposit @ 10% of the value of the contract.

23. Photocopy of latest ITR/ PAN No. should be enclosed with the completed tender.

24. Firm should undertake to enter into Annual Maintenance Contract (AMC/CAMC) for equipment as well as for accessories attached for minimum period of five years after completion of warranty period and accordingly quote the rates of AMC/CAMC for five years. The rates for AMC (Labour) should not exceed 3% and for CAMC(Comprehensive) should not exceed 10% per annum of the unit cost of the equipment. Firm should undertake to keep the equipment in running order throughout the year and in case of equipment going out of order during warranty/AMC/CAMC the fault will be attended within 24 hours and rectified within 7 days of lodging the complaint.

25. If the equipment needs calibration, the firm shall be responsible for calibration as part of AMC/CAMC.

26. The Medical Superintendent, ESIC Hospital, K.K. Nagar, Chennai-78, will be at liberty to terminate the tender proceedings without assigning any reasons thereof. The bidder will not be entitled for any compensation whatsoever in respect of such termination.

27. One copy containing terms and conditions, schedule of this tender and specification of the quoted equipment should be signed by the tenderer at the bottom of each page with the office seal duly affixed and returned along with the tender.
28. Declaration form and Company profile formats enclosed must be filled in and signed by the tenderers and enclosed along with the tender. Tenders received without the Declaration form shall not be considered.

29. No articles shall be supplied to the College except on requisition in writing signed by the Medical Superintendent or by an officer authorized by him/her in writing to do so.

30. The contract should not be sublet without the prior written permission of the Medical Superintendent.

31. For imported items, Customs duty exemption certificate, wherever applicable, will be issued by the Medical College & PGIMSR and the price has to be quoted accordingly. The tenderer will assist in opening of Letter of credit for an amount of 90% of the cost of the instruments and undertake all the activities related to release of equipments from customs in the presence of an official of ESI CORPORATION and deliver the same at central stores on the same day of release from the customs. Any demurrages on account of delayed clearance from the customs will be borne by the tenderer. The Medical College & PGIMSR will provide all the documents necessary for clearance from the customs and the same should be indicated by the tenderer.

32. BIDDERS ARE FREE TO QUOTE FOR ONE OR MORE EQUIPMENTS BUT SEPARATE ENVELOPE FOR EACH EQUIPMENT SHOULD BE USED AND SEPARATE DEMAND DRAFT TOWARDS EMD FOR EACH EQUIPMENT SHOULD BE ENCLOSED, FAILING WHICH THE QUOTATION FOR THAT EQUIPMENT WILL BE TREATED AS UNRESPONSIVE AND SUMMARILY REJECTED. QUOTATIONS FOR SEPARATE EQUIPMENT BY THE SAME BIDDER SHOULD BE SUBMITTED IN SEPARATE ENVELOPE AND SHOULD NOT BE PUT IN A COMMON COVER.

33. TENDER DOCUMENTS THAT ARE BEING SUBMITTED IN PERSON ARE TO BE DROPPED IN THE TENDER BOX KEPT IN THE FIRST FLOOR OF ESIC HOSPITAL.

34. Bidders in their own interest shall ascertain the eligibility of whatsoever concessions and exemptions are eligible and applicable to the ESIC Hospital, K.K.Nagar,Chennai and shall advise the purchaser and quote accordingly.

FOR IMPORTED ITEMS CUSTOMS DUTY EXEMPTION CERTIFICATE WILL BE ISSUED BY THE HOSPITAL AND PRICE TO BE QUOTED ACCORDINGLY. TENDERER WILL ASSIST IN OPENING OF LETTER OF CREDIT FOR AN AMOUNT OF 90% OF THE COST OF THE EQUIPMENT AND UNDERTAKE ALL THE ACTIVITIES RELATED TO RELEASE OF EQUIPMENT FROM CUSTOMS IN THE PRESENCE OF AN OFFICIAL OF ESI CORPORATION AND DELIVER THE SAME AT CENTRAL STORES ON THE SAME DAY OF RELEASE FROM CUSTOMS. ANY DEMURRAGES ON ACCOUNT OF DELAYED CLEARANCE FROM THE CUSTOMS WILL BE BORNE BY THE TENDERER. THE HOSPITAL WILL PROVIDE ALL THE DOCUMENTS NECESSARY FOR CLEARANCE FROM THE CUSTOMS AND THE SAME SHOULD BE INDICATED BY THE TENDERER.

35. **Delivery Schedule.**

Within 60 days after placement of supply order. The delivery should be at the place shown by the receiving officer within the premises of the Medical College at the cost of the supplier. For imported items an enhanced delivery period, if required can be agreed and the same should be indicated clearly. If the successful tenderer fails to execute the supply within the stipulated period, penalty of 2 % of the value of the order will be levied for a delay of one week or part of the week subject to a maximum of up to 10%. Failure to execute the supply will lead to cancellation of supply order and the Performance security will stand forfeited.

36. The payment towards the supply is subject to receipt of inspection note/performance certificate to the effect that the items supplied are conforming to the supply order placed.

MEDICAL SUPERINTENDENT
SPECIFICATIONS FOR GROUP – A EQUIPMENTS (DOUBLE BID SYSTEM)

(1) DEFIBRILLATOR WITH CPR CAPABILITY & MONITORING WITH PACING

1. The defibrillator should be lightweight, small size with bright colored display with facility to show 3 waveforms at a time.
2. The defibrillator should be Rectilinear Biphasic waveform.
3. Should have AED-Mode.
4. It should have monitor display of both selected and energy display.
5. It should have ability to provide verification of the defibrillator charging and discharging without removing paddles from storage wells.
6. It should have energy selection and de-selection on paddles as well as on front panel.
7. In manual mode the unit should provide energy selection at (1-10, 15, 20, 30, 50,70,85,100,150,200) joules.
8. It should have real time CPR feedback to measure chest compression rate and depth in real time and both visual and audible feedback is provided.
9. The unit should have facility of non-invasive external pacing with 40 milli-second pulse width.
10. It should have ability to sense the type of electrode (adult or pediatric) and able to detect missing or dried out electrodes.
11. The defibrillator should do self test daily and generate report for the same by giving print out.
12. It should come with lithium iron battery and battery should have indicator on it to show level of charge left.
13. Optional Upgradation facility to measure SPO2 having Masimo Technology, ETCO2 having Respironics & NIBP with Sun-tech Technology.
14. It should have facility of external as well as internal defibrillation.
15. It should have ability to filter out CPR artifacts and allowing person to see organized rhythms without interrupting chest compression.
16. The defibrillator should be strictly US FDA approved.

The Unit should be provided with following accessories:

1. External paddles (Adult & Pediatric) ------- 1 pair
2. Li-Ion battery : 1 No.
3. Multifunction disposable electrodes to do monitoring , defibrillation & pacing with in-built CPR sensor to get real time CPR feedback on monitor ------- 10Nos.
4. Printing paper rolls -----10Nos.
5. 3Lead ECG cables-------1No.

***************
(2) SPECIFICATION FOR BUBBLE CPAP

- Should deliver CPAR with pressure oscillations.
- The Cpap pressure should be adjustable with autolevel and overflow mechanism.
- There should be safety pressure relief mechanism, with additional ports for pressure monitoring.
- Humidification System: Dual or Single temperature servo controlled system that regulates the temperature of the gas delivered to the patient and the gas at the outlet of humidifying chamber.
  - Display of Temperature and Relative Humidity
  - Built in audio/video alarms for high/low temperature, high/low chamber
- Outlet temperature, probe disconnection, heater wire fault connection.
- Prevention of overheating condition for safe operations and heater
- base turns off automatically if an alarm condition does not disappear in next 10 minutes.
- System should work on both manual and servo control.
- Oxygen concentration delivered should be regulated between 21% to 100%
- Medical Grade air compressor should be a part of the equipment.
- All components to be mounted on a heavy duty stand and pole assembly.
- Should be supplied with necessary accessories for immediate usage.

***************
(3) SPECIFICATIONS FOR MULTI-PARAMETER VITAL SIGN MONITOR

The above item should be a compact design & should have:

- Eight channel high-resolution colour TFT display with 12" screen size and auto spacing
- Should be able to monitor ECG, ST segment analysis, Respiration, NIBP, SpO2, Temperature, EtCo2 & 2 IBP. Future Upgradable CO and AGM.
  1. **ECG monitoring** - 3 Lead or 5 lead with cascade waveform facility, Monitoring, Diagnostic & OT modes of monitoring ECG, selectable Arrhythmia detection. Multi-lead ECG monitoring (simultaneous monitoring of 7 ECG leads), 12 Lead monitoring option.
  2. **Pulse Oximetry (SpO2)** - Branded Nellcor technology. Display of plethysmograph with perfusion level indicator & SpO2 values. SpO2 Range - 1-100%
  3. **Non invasive Blood Pressure (NIBP)** - Branded CAS or Suntech technology. Measurement and display of systolic, diastolic and mean pressure values of NIBP measurement through Oscillometric method for adult, child & neonate. User selectable alarm settings, Mode: Manual, STAT (continuous 5 minute operation) and automatic (selectable time interval 2-90 minutes).
  4. **Dual Temperature** - with two units (°C and °F) selectable. Temp. Range - 0-50 deg. C. Option for differential temperature should be provided.
  5. **Respiration** - RR range: 1-150bpm, Sourced through ECG cable or CO2. Priority to CO2. Apnea alarms should be provided.
  6. **IBP** - facility for monitoring for 4 invasive BP with waveform simultaneously. IBP Range: -40 to 300 mmHG. Overlapping facility.
  7. It should be latest **Microstream Capnography** with Capnogram display and digital display for EtCO2, FiCO2 & RR.

- ST segment analysis should be possible for simultaneous three leads.
- Drug dose calculation
- 72 Hrs. non volatile graphical / tabular trends with zoom facility and separate dedicated trend for storing min 200 NIBP readings.
- Should have multiple patient data storage facility (min 50 patients)
• Should have Graded & Colour coded visual / audio alarms.

• Should have Alarm recall facility to view & store last min. 10 critical alarms (patient related)

• Auto setting of alarm limits depending on present patient condition for all the parameters

• Automatic, Default and manual alarm storage

• Defibrillator and Cautery protection should be provided.

• Should have IR remote facility.

• HR/PR source selection facility from Automatic, Spo2, IBP and NIBP

• Demo mode for training the staff

• Simultaneous use of invasive BP channels and temperature should be possible.

• Optional inbuilt dual channel thermal array recorder

• Record on Alarm facility

• Future upgradable Anaesthesia Gas monitoring (AGM)

• Suitable for Adult / paediatric / neonatal applications.

• User selectable screen formats & user-friendly menu driven functions through optical encoder

• Should work on Mains as well as battery (backup - 3hrs (typically))

• Analog & RS 232 connectivity should be possible.

• Facility to interface to external Slave monitor.

• Sync output and USB port for software upgrades

• Future upgrade for Cardiac output - thermo - dilution method as well as Non-invasive bio-impedance method continuous CO

• Networking facility with central nursing station should be possible

• Confirming to International standards - IEC 601-1, CE certification, US FDA

**Should be supplied with:**

One 3 lead ECG cable, Reusable SpO2 Adult sensor-1 No, NIBP cuffs (each one for Adult, Child & Neonatal applications), 2 Nos IBP Reusable Interface Cable & 10 Nos Disposable Transducer Kit, EtCo2 standard Accessories.
(4). **PNEUMATIC TOURNIQUET**

- Intelligence maintenance of set pressure for the set time
- Maximum Inflatable pressure upto 400mm
- Cuff should be made up of non-irritant material and smooth to skin.

**ACCESSORIES:**

i) Paediatric cuff - 4  
ii) 4 inch inflatable cuff - 4  
iii) 6 inch inflatable cuff - 4

****************************

(5) **BATTERY OPERATED DRILL SYSTEM**

- Light weight  
- Washable  
- Autoclavable  
- Surgeon friendly  
- For Replacement surgeries.

Each set has

i) JACOB DRILL ATTACHMENT  
ii) SAW ATTACHMENT  
iii) ATTACHMENT FOR FLEXIBLE REAMERS  
iv) ATTACHEMENT FOR ACETABULAR ADAPTORS  
v) OIL AND BRUSH FOR CLEANING AND MAINTENANCE  
vi) K-WIRE AND DRILL BIT ATTACHMENT WITH KEYS  
vii) 2 - BATTERIES WITH BATTERY CHARGER

*******************************
(6) PNEUMATIC DRILL SYSTEM

- Light weight, easily usable, Surgeon's friendly
- Easy cleanable and Maintainable
- Autoclavable

**Each set has:**

i) JACOB DRILL ATTACHEMENT  
ii) SAW ATTACHEMENT  
iii) ATTACHEMENT FOR FLEXIBLE REAMERS  
iv) ATTACHEMENT FOR ACETABULAR ADAPTORS  
v) RUBBER HOST LONGEST  
vi) OIL AND BRUSH FOR CLEANING AND MAINTENANCE  
vii) K-WIRE AND DRILL BIT ATTACHEMENT WITH KEYS

************************
(7) GLYCOSYLATED HEMOGLOBIN (A1C) ANALYSER

1. Sample Volume: Minimal, primary sample tube capability
2. Method NGSP certified, DCCT traceable
3. Equipment: CE/FDA approval certificate
4. No pre analytical workup
5. Service breakdown TAT to be mentioned.
6. Long term user certificate of monthly CV
7. Interferences ~ limitations list
8. On board LJ chart ~ data memory
9. Cost of equipment including bidirectional interface with HIS
10. Calibration frequency
11. Time taken from startup
12. Cost of test for 50+/month, 100+/month, 200+/month
13. Test menu available
14. Software upgradation for next 5 years without additional charge.

Accessories:
- UPS

**************

(8) SPECIFICATION FOR CENTRIFUGE(Slow Speed)

- Stabilizer to be included in installation.
- Capacity: More than 100ml 15ml tubes
- Display: Digital with certified termostat
- Speed control: Minimum: ≤ 1600 rpm
  (Rotor speed with 5-15ml tubes) Maximum: > 4000 rpm
  Minimum G: 200 g
  Maximum G: <4000
- Motor: Brushless
- Calibration certificate every 6 months till warranty FOC.

*************
(9) CYTOCENTRIFUGE (CYSTOSPIN)

1. Single and double cell funnels (0.5ml/funnel)
   (a) Removable cell clip rotor- Standard or closed with swing out rotor facility
2. 6000 rpm in 100 rpm increments.
3. 208-240 V/ 50-60 Hz
4. 115 V/ 60 Hz
5. Control system - Keypad type of control system for easy and precise entry of parameters
6. Time control in minutes with a maximum time limit of 99 minutes
7. Pulse button facility for short procedures
8. Ergonomic operation and information systems
9. Easy rotor replacement and changes
10. Power lid lock
11. Metal housing and metal lid with bolt
12. Centrifugation chamber made of stainless steel
13. Viewing port in the lid
14. Unbalance switch of function
15. Emergency release and safety alarm for to protect users and specimens
16. Motor overheat control systems
17. Cooling system availability (-20deg C to +40deg C)

************

(10) ENDOSCOPIC STAPLER SET

Endoscopic Stapler set should consists of

1. Laparoscopic linear stapler with cutter with appropriate reloads for various thickness tissue stapling.
2. Curved linear cutter for low anterior resection with appropriate reloads.
3. Trocas -12mm (Compatible to the stapler)
4. Appropriate reloads for above staplers.

********************
(11) TECHNICAL SPECIFICATION FOR SLIT LAMP WITH IMAGING SYSTEM
(BASIC WITH ACCESSORIES)

Type: Galilean-type converging binocular Microscope
Magnification Changer: Three position rotating drum
Eye pieces: 16 x
Total Magnifications: 10x 16x 25x
Real Fields of View: 23mm 14mm 8.7mm 5.6mm dia
Interpupillary adjustment: 52mm~82mm

Slit Lamp
Slit Width: 0~14mm, continuously variable
Slit Length: 1~14mm, continuously variable
Aperture diaphragms: 14mm 8mm 5mm 3mm 0.3mm dia
Filter: Heat absorbing, UV, red-free and cobalt blue
Lamp: 12V/30 W halogen lamp

CROSS SLIDE BASE
Longitudinal Movement: 90mm
Lateral Movement: 110mm
Vertical Movement: +/-15mm
Horizontal fine movement: +/-15mm

CHIN REST
Fixation Lamp: LED (Green)
Vertical movement: 78mm

Power
Input Voltage: AC100V, 120V, and 230V
Maximum power consumption: 40VA

DIMENSION AND WEIGHT
Base dimension: 359mm (W) x 328.5mm (D)
Weight: Approx. 11.6kgs

ACCESSORIES
1. Digital Camera Adaptor
2. Back Ground Illuminator 3. EOS series Digital Camera

************
(12) OPERATING MICROSCOPE (WITH TV UNIT-PREFERABLE)

**Microscope unit**
- Magnification Changes: Motorized zoom type (zoom ratio 1:5)
- Focal distance of objective: F= 175mm (apochromatic corrected optic)
- Lens
- Eye pieces: 12.5 x(high-eyepoint & wide field)
- Binocular unit: 45 degree inclined with converting optics F= 125mm
- Total magnifications: 4.28x to 21.4x
- Actual view fields: 52.5mm dia to 10.5mm
- Focusing stroke: 30mm

**X-Y Coupling Unit**
- X-Y Movement Stroke: +/-25mm in each direction (with centering function)

**Illumination Unit**
- System: Cold light coaxial illumination by fiber light guide
- Light Source: Halogen bulb 15V 150W
- Field of illumination: 55mm Dia
- Field of red reflex illumination: 0.15mm Dia
- Filters: Heat-absorbing, UV(Permanent feature built-in), Blue-Cut and Retinal Protection filters

**Arm, base**
- Mount: Floor stand
- Maximum Arm extension: 1,045mm
- Balance arm vertical stroke: 400mm
- Base size: 640mm x 640mm

**Others**
- Weight: 82 kgs
- Power consumption: 400 VA
- Power Supply: 120 VAC and 230 VAC, 50/60Hz

**Accessories:(Preferable)**
1. Beam Splitter
2. T.V Camera Adaptor
3. CCD Camera 4. T.V Monitor

************
**OPERATING TABLE WITH FOOT CONTROL**

Table Setting : Dimensions (height & Angular Settings)

(Forward & Reverse)

**Versatile operation table for Ophthalmic surgery and certain special procedures.**

Provides for smooth, easy and accurate positioning. Movement controlled by Electronics system operated by Foot switch to achieve smooth and efficient, without the slightest jerk at start and End. Unique, Spring control Leveling for tilting positions. The adjustable cushioned head rest comfort for operation and also adjustable wrist support provides comport and stability while operating.

**Dimensions**

- **Length** : 890 mm (35.03”)
- **Width** : 690 mm (27.16”)
- **Net weight** : 12kg

**Electronic Movements**

- **Up & Down** :
  - Minimum Height : 610 mm (24.1”)
  - Maximum Height : 890 mm (35.03”)
  - Stroke Length : 280 mm (11.02”)
  - Weight Capacity : 150kg

**Tilting (Forward & Reverse)**

- Back Rest section 30
- Leg section 20

**Accessories:**

i) Headrest with side trays
ii) Patients Drape stand.
iii) Surgical instrument tray

***************

18
(14) SPECIFICATIONS FOR NASAL ENDOSCOPE 4mm 70 DEGREE

- Wide Angled Telescope
- Diameter 4mm
- 70 Degree Angulation
- Adjustable to Different Cameras & Light Sources.

**********
SPECIFICATIONS FOR GROUP – B EQUIPMENTS (SINGLE BID SYSTEM)

(15) DOUBLE SIDED CFL PHOTOTHERAPY UNIT

The unit should comprise of CFL top and bottom phototherapy having the under mentioned specification.

The specification for bottom unit should confirm to the following.

Irradiance : 30µ W/cm²/nm at 230V (430-480nm-new Lamps)Single side
Lamp Type : Energy saving CFL lamp (Blue) - 4 numbers.
Electric supply : 190-240V, 50 Hz, 2 A
Power rating : Maximum - 120 W
Time totaliser : Digital, Compact and noise free
Size of unit : Maximum of 930 L x 650 W x 1050 H in mm
Weight of lamp unit : Maximum of 7kg
Bassinet : Transparent acrylic bassinet
Coating : Epoxy/powder coated body for scratch and rust presentation

1. Should conform to IEC-60601 safety standards
2. Should have the lamp unit made with FRP.
3. Should have concealed wiring.
4. Should occupy only very little bedside space for convenience in observation and procedures.
5. Should have trendlenburg positioning.
6. The unit should be mobile with 4 swivel castors (2 No with brake and 2 No without brake)

The specification for top unit should confirm to the following.

The specification should confirm to the following specification.

Irradiance : At least 20µW/cm²/nm at 45cm from the lamp at 230V(430-480nm-new lamps)
Lamp Type : Energy saving CFL lamp (Blue) - 6 numbers.
Height adjustable : Should have at least a range of 1190=/-20mm to 1680+/-20mm
Tilt Adjustment: Should be possible to tilt and position the unit to a maximum of 90 degree on either side.

Time totaliser: Digital, Compact and noise free

Electric supply: 190-240 V, 50 Hz, 2A

Power rating: Maximum -120W

Weight: Maximum -20kg

Coating: Epoxy/powder coated body for scratch and rust prevention and PU(Poly Uratane) coating for plastic

- Should conform to IEC-60601-1 electrical safety standards
- Should have the lamp unit made with FRP with metallic ventilation cover for efficient heat dissipation.
- Should occupy only very little bedside space for convenience in observation and procedures.
- Should have louver under the Lamp unit to prevent stray radiation in carregiver space.
- The unit should be mobile with 3 swivel castors. The base of the unit should be T-Shaped and should go beneath an Incubator/bed/trolley with minimum of 8-cm floor clearance.
- Should have the ballasts (chokes) located at the base, to decrease the heat generated at the lamp unit and to increase stability.
- The system should have an international FDA approval.
- The system should have an international CE & IEC approval.

************
DIGITAL BABY WEIGHING SCALE

Should match with the following specification:

- Should have the capacity to weigh and display from 10 g to 15 kg
- The Accuracy should be 5gm
- The Resolution should be 1gm
- Should have LCD display with back light for easy visibility
- Should have Transparent acrylic pan with provision for measuring the length of the baby
- Baby pan size should not be less than 500mm * 300mm.
- The baby pan should be removable and washable
- Should show the accurate weight irrespective of the position of the baby over the pan.
- Should have the Facility to hold the reading to note the weight easily
- Should have auto Zero Facility
- Should have battery backup facility for at least 1 hour
- Should have Battery and power indicator
- Should have Facility to initialise the readings to zero before the infant is kept over the pan for taking weight
- Should work in Electric supply in 230 V, 50Hz
- Should conform to IEC - 60601 - 1 Electrical Safety Standards.
- The system should have international approval such as FDA

************
(17) SPECIFICATIONS FOR PULSE OXIMETER

☑ Should have facility to Monitor from Neonate to Adult
☑ Should have Oximax Technology to track SpO2 even during low perfusion condition
☑ Should provide Satseconds Alarm management technology which should avoid unnecessary alarm & distraction during monitoring of severe motion patients
☑ Should be capable of displaying plethysmographic waveforms and pulse amplitude
☑ Should have on-screen display of SpO2 and pulse rate alarm limits
☑ Should have on-screen help message to assist the user in the use of the monitor
☑ Should have 96 hours trend memory captured every 4 seconds
☑ Should have multicolor display screen with a black background which provides ideal contrast
☑ Should be easy-to-use jog dial for simple navigation and control of the display and monitoring system functions
☑ Should be Compact & light weight for easy transport.
☑ Should have Individual Alarm settings for SpO2 & Pulse rate
☑ Should have Battery backup 5 hours
☑ Should have optional facility to store patient trend data on a PC for archive and analysis
☑ Should be provided with Sensor and Extension Cable
☑ Should have Trolley with Wheels

***************
(18) SPECIFICATIONS FOR DENTAL LATHE

- HP - 0.25
- RPM - 2850

*********************************

(19) DENTAL AUTOCLAVE WITH ALL ACCESSORIES

- Table top front loading Autoclave
- Fully Automatic Micro-Processor based control
- Temperature select 121°C and 134°C Wet and Dry cycle
- Chamber size: 225mm (Dia) X 430 mm depth
- Outer Dimension: W580mm X H430mm X D600mm
- Coil: 1.5KW/230V AC

**********

(20) BRUSHLESS LAB MICROMOTOR

- Brushless Heavy Duty Lab Micro motor
- 50000 RPM

Accessories:
1. Complete set of Burs
2. Complete set of Trimmers.

**********
(21) MICRO SURVEYOR OR PARALLELOGRAMETER
WITH DETACHABLE TABLE

- Basic device with model table
- Collect chuck 2.35mm
- Collect chuck 3mm
- Set of tools with NEY System measurement set
- Height: 315mm
- Width: 195mm
- Depth: 195mm
- Weight: 3.25kg

Accessories:
1. System measurement set
2. Graphite refills. (1 Pack - 10 pcs)

************

(22) DENTAL ASSISTANCE STOOL WITH
BACK REST

- Optional rotating abdominal support
- Five Lg cast Aluminium base
- Twin wheel casters for carpeted surface
- Three way Adjustable Lumbar support
- Left/Right Conver table
- Adjustable Height Foot Ring

************
(23) NO FLAME PLUS

- With power cable and protective covers
- Dimension: 195 X 85 X 83
- Weight: 600g
- Main Supply: 230V/ 50Hz/130W

Accessories:
1. Protective caps / 10 pcs

**********

(24) PALATAL TRIMMER

- Direct Extraction of fine plaster dust
- Bur Height Adjustment for difficult Dental Arch and high or already pinned dental arches
- 230V
- 100% Clean
- Time and Cost saving 65%

**********
(25) WAX CARVER (ELECTRIC)

- Control unit with mains Adaptor, Hand piece with cord, Cotton roll holder.
- Dimension 130X150X50
- Cable length of Hand piece 18m
- Electrical Specification of Main Adaptor 110-230V, 50/60Hz
- Output: 6V, Power : 12W

Accessories:

1. Probe small with Handle
2. Probe large with handle
3. Needle with handle
4. Beaver tail with handle
5. Knife with handle
6. Spoon with handle
7. Dental roots 10pcs

***********

(26) SEMI ADJUSTABLE ARTICULATORS

- A7 Plus with Professional face
- Bow (B10 Art)

***********

(27) DENTAL HYDRAULIC BENCH PRESS

- Maximum capacity - 3 Flasks
- Distance between 2 Plates - Around 24cm, Usable Space- Around 13-14cm
- Full cast metal with pressure guage.

***********
(28) VIBRATOR BIG SQUARE WITH RUBBER CAP

- VIBRAX, 230V
- DIA. 275 X 138 X 205mm
- WEIGHT 6.5kg

**Accessories:**

1. Vibrating ball

(29) POLYMERISATION UNIT (PALCKO BATH)

- Outside and Inside body made of stainless steel
- Temperature controlled by hydraulic thermostat (from 5deg.C to 100deg.C)
- Mechanical / Digital timer
- Inner size - 300 x 250 x 350 mm

(30) Specifications for Fumigation Machine

- Non-magnetic Stainless Steel.
- 1.5 to 2 ltrs Capacity
- Less power consumption.
(31) SPECIFICATIONS FOR CRYO UNIT

SPECIAL FEATURES

• Completely Non-electric, Portable
• Works with carbon-dioxide gas or nitrous oxide gas
• Foot controlled
• Quick Freezing
• Instant defrosting by reversible flow of gas system-cleans the probes for every cycle automatically
• Light weight probe tips have high conductivity silver
• Useful for cataract, Retinal Detachment, Glaucoma and Intravitreal surgery
• Two years unconditional guarantee

CRYO PROBES TECHNICAL DETAILS

<table>
<thead>
<tr>
<th>Probe</th>
<th>Tip size mm</th>
<th>Tip Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cataract</td>
<td>1.4</td>
<td>-40° C</td>
</tr>
<tr>
<td>Retinal</td>
<td>2.5</td>
<td>-80° C</td>
</tr>
<tr>
<td>Glaucoma</td>
<td>3.5</td>
<td>-80° C</td>
</tr>
<tr>
<td>Intravitreal</td>
<td>1.00</td>
<td>-20° C</td>
</tr>
</tbody>
</table>

Net weight : 5Kgs.

**********
(32) OPHTHALMOSCOPE (DIRECT)

Ophthalmoscope Optic Head

Heine Optimizes the Gullstrand principle with aspherical Optics (separation of illumination and observation beam) Corneal and iris reflexes are eliminated A full View is guaranteed even with small pupils

XHL Xenon Halogen Technology
Bright, White Light

Recessed, multi coated viewing window
Avoids stray light

Dustproof housing:
Maintenance free

Optics mounted on precision metal chassis:
Durable, precise

Ergonomic shape:
Instrument fits the orbita comfortably in any position

Soft orbital support:
Protects the users glasses and steadies the instrument

7 aperture with separate red free filter, Suitable for large or small pupils
Incorporates slit aperture, fixation star, cobalt blue filter and red free filter for Improved contrast

Lens range:
Perfect focus even with high refractive errors

+ in 1 D steps 1-10,15,20,40 D

- in 1 D steps 1-10,15,20,25,35 D

Large Battery Handle:
Dimensions 165x37mm dia, Weight: 212gms without batteries Handly for 2 dry cells type D, Rheostat for regulating the brightness

Accessories:
i) Rechargable batteries - 4
ii) Charger for batteries - 1

***********
(33) SPECIFICATIONS FOR LITHOCLAST MACHINE (INTRA CORPORAL LITHOTRIPTOR)

- Control unit should be compact and mobile.
- Should have single pulse and continuous pulse mode.
- Digital display with pressure setting.
- Should come with two numbers hand piece and two numbers foot switch.
- Have minimum seven probes.
- Should come with suction unit, accessories.

***************

(34) SPECIFICATIONS FOR 2.5XLOUPE (MAGNIFICATION)

- 2.5X loupe with 420 mm (or) 450 mm working distance

**********
**SPECIFICATION FOR SYRINGE PUMP**

* Operation Modes include: flow rate mode, time mode and body weight mode.

* Popular Syringe brands pre-configuration before operating.

* Flow rate changeable without stopping the infusion.

* Manual bolus and automatic bolus.

* Anti-bolus system to reduce significantly bolus after occlusion sudden release.

* Drug library to choose medication conveniently

<table>
<thead>
<tr>
<th>Syringe Type</th>
<th>Holds one Syringe only, 50,10,20,30,50 ml</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating Mode</td>
<td>1) Flow rate mode, rate range: 0.1-1500ml/h (Increment 0.1 ml/h), maximum rate value depends on different syringes, preset volume range: 0.0 - 999.9ml</td>
</tr>
<tr>
<td></td>
<td>2) Time mode, time range: 1 - 200 min, preset volume range 0.1 - 999.9ml</td>
</tr>
<tr>
<td></td>
<td>3) Body Weight mode, weight range: 0.1-300.0kg, drug limit: 0.1 - 999.9mg, drug unit: mg/g, dose limit: 0.1-1500.0, dose unit: mcg/kg/min or mg/kg/h, preset volume range: 0.1-999.9ml</td>
</tr>
<tr>
<td>Accumulated Injection Volume</td>
<td>0.1 - 999.9ml</td>
</tr>
<tr>
<td>Accuracy</td>
<td>± 3%</td>
</tr>
<tr>
<td>Flow Rate Range</td>
<td>5 ml syringe: 0.1 ml/h - 100ml/h</td>
</tr>
<tr>
<td></td>
<td>10 ml syringe: 0.1 ml/h - 200ml/h</td>
</tr>
<tr>
<td></td>
<td>20 ml syringe: 0.1 ml/h - 400ml/h</td>
</tr>
<tr>
<td></td>
<td>30 ml syringe: 0.1 ml/h - 600ml/h</td>
</tr>
<tr>
<td></td>
<td>50 ml syringe: 0.1 ml/h - 1500ml/h</td>
</tr>
<tr>
<td>Increment</td>
<td>0.1 ml/h</td>
</tr>
<tr>
<td>Keep Vien Open Rate</td>
<td>0.1 - 5.0ml/h adjustable</td>
</tr>
<tr>
<td>Bolus Rate</td>
<td>5 ml syringe: 100ml/h</td>
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<tr>
<td></td>
<td>10 ml syringe: 200ml/h</td>
</tr>
<tr>
<td></td>
<td>20ml syringe: 400ml/h</td>
</tr>
<tr>
<td></td>
<td>30ml syringe: 400 - 600ml/h</td>
</tr>
<tr>
<td></td>
<td>50ml syringe: 600 - 1500ml/h</td>
</tr>
</tbody>
</table>

32
<table>
<thead>
<tr>
<th>DISPLAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>Screen</td>
</tr>
<tr>
<td>Information</td>
</tr>
<tr>
<td>Alarm Type</td>
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<tr>
<td>BATTERY</td>
</tr>
<tr>
<td>Type</td>
</tr>
<tr>
<td>Operation Time</td>
</tr>
<tr>
<td></td>
</tr>
<tr>
<td>ENVIRONMENT</td>
</tr>
<tr>
<td>Temperature</td>
</tr>
<tr>
<td>Air pressure</td>
</tr>
<tr>
<td>Humidity</td>
</tr>
<tr>
<td>OTHERS</td>
</tr>
<tr>
<td>Dimension</td>
</tr>
<tr>
<td>Weight</td>
</tr>
<tr>
<td>Power Supply</td>
</tr>
<tr>
<td>Waterproof Level</td>
</tr>
</tbody>
</table>

- CE Certified
- 3 Years warranty

************
(36) SPECIFICATIONS OF INUSION PUMP

1) The display and the door section of the pump have to be independent

2) The pumping mechanism should be Peristaltic Transit Finger type with full press system with a flow rate of 0.1 to 1200ml/hr and a total volume of 0.1 to 9999ml

3) It should be compatible with open and close IV Sets with a maximum accuracy of 5%

4) It should have a KVO rate of 1 to 9 ml/hr with purge/bolus facility

5) It should have an event history of 1000 events.

6) It should work on battery for more than 4 hours and should be provided with Ni-MH

7) It should be provided with double door lock, key lock, detection of abnormal fluid drop, nurse call facility.

8) It should weigh less than 2 kgs.

9) It should have a 7 segment display.

10) It should have the following alarms:
    a) Continuous beep for completion
    b) Continuous beep for 30 seconds for AC power fall alarm
    c) Air bubble warning alarm
    d) Occlusion warning alarm
    e) Door open warning alarm
    f) Start reminder warning alarm (Pause set time elapsed)
    g) Door opening warning alarm

11) It should be provided with micro setting facility
12) It should have an optional facility to connect Drop Sensor.

**************
**SPECIFICATION FOR CRASH CART**

1) Overall size shall be more than 900mm L x 500mm W x 1500mm H.

2) The crash care should made of Stainless Steel tubular frame work, complete with corner buffers.

3) Shall have Epoxy/Anti-Microbial powder paint inside and out.

4) Should have dual push handles on either side.

5) Should have S.S. Shelves, six colored removable bins & two polystyrene lockable storage units with three drawers each.

6) Facility to carry ECG Monitors, Defibrillators etc on open areas at top centre and bottom shelves.

7) Should have Stainless Steel saline rod fixed with.

8) Two accessory mounting brackets to mount accessories anywhere without the need of pre-threaded holes.

9) Crash cart should be mounted on 12.5cms dia non-rusting swiveling castor wheels. Two having locking arrangement.

10) Oxygen Cylinder stand epoxy powder coated, on one side, with provision to open and close cylinder stand for easy and quick loading.

11) Cardiac Massage Board.

12) Halogen Lamp.

***************
(38) SPECIFICATION OF INTENSIVE CARE PATIENT TROLLEY
(HYDRAULIC ADJUSTABLE HOSPITAL PATIENT TROLLEY)

1. Overall Size: 1900 * 680 * 570/860mm
2. Bed Surface: 1900 * 600mm

**Patient Trolley Material:**

The care is made of imported PE Material. Imported hydraulic system.

**Instructions**

It is a type of hydraulic hospital stretcher. Multi-positions can be reached by food pedal easily.

Central-control brake wheel and direction castor help the user easy control the cart direction. Best rest is controlled by imported gas spring.

**Multiposition:**

Backrest max upward angle: 75deg.

Height adjustable: 660 - 940mm

Trendelenburg: 12deg.

Anti-trendelenburg: 12deg.

**Patient Trolley Standard Accessories:**

- IV pole, bed cushion
- CE Certified
- 3 years warranty
- Provision for oxygen cylinder transport should be available as a part of the trolley.

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(39) SPECIFICATION FOR ULTRASONIC NEBULISER

- Power Source: 230 VAC, 50 Hz
- Power Consumption: Approx. 80 VA
- Fuse: T2A L250V
- Ultrasonic Frequency: Approx. 1.7 MHz
- Particle size: *MMAD 4.4 um (MMAD = Mass Median Aerodynamic Diameter)
- Nebulisation rate: ** Approx. 0 to 3 ml adjustable
- Sound: ** Less than 45 dB
- Air Volume: Maximum 17 l/min
- Amount of cooling water: Approx. 375 ml
- Capacity of medication cup: Approx. 150 ml (min. 5 ml)
- External dimensions: Approx. 276 (W) x 243 (H) x 226 (D) mm
- Weight of the main unit: Approx. 4.0 kg
- Protection class: Class I
- Operating condition: Continuous
- Operating temperature: 5 Degree Celsius to 40 Degree Celsius (41 Degree F to 104 Degree F) / 30 to 85% RH Humidity
- Storage temperature: -20 Degree Celsius to 60 Degree Celsius (-4 Degree F to 140 Degree F) / 10 to 95% RH / 700 to 1060 hPa humidity/air pressure.
- Accessories included: Inhalation hose M (with a cuff, 70 cm), Mouthpiece set, 2 Medication cups, power cord, instruction manual (with warranty card)
- CE Certified
- 3 year warranty

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(40) Specifications for Continuous passive motion (CPM Machine)

- Fully programmable with LCD display, Lower limb flexion mobilization unit.
- Fitted with noiseless high torque gear motor with seat conveyor for flexion angle sitting. Should have a provision for treatment time, setting of flexion angle and extension provision, hold on flexion and hold on extension cyclic time.
- Fully programmable with LCD Display and key pad.
- Jerk free and noiseless high torque gear motor with speed control. Patient remote to switch off the machine is absence of doctor or technician.

Technical Specifications:
(a) Input voltage - 220 VAC/50Hz
(b) Treatment time - 0-99min.
(c) Power consumption - 35W Max.
(d) Flexion time (hold) - 0 to 9 sec.
(e) Extension hold time - 0 to 9 sec.
(f) Flexion angle - 10deg. to 120deg.
(g) Dimension - 1050 x 270 x 300 mm (L x W x H)
(h) weight - 16.5 kg.

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(41) SPECIFICATION FOR OTOSCOPE
- Two cell - large Cell

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From
__________________
__________________
__________________
__________________

To
The Medical Superintendent,
ESIC Hospital, K.K.Nagar,
Chennai - 600 078.

Sub: Request for refund of EMD Amount – reg.

*********

With reference to your advertisement dated__________________, we have submitted tender for ____________.

In case we are not successful bidder, we request you to kindly refund the EMD amount of Rs._____________________________. The Cheque may be kindly be drawn in favour of ___________________

Beneficiary’s Name : 
Account No. : 
A/C Savings Current : 
IFSC Code No. : 
Bank Name : 
Branch Name & Address :

Yours faithfully,

(SIGNATURE &SEAL)

PRE-RECEIPT
Received on amount of Rs…………………………… vide cheque
No………………………….. dated……………….. from ESI Corporation towards refund of EMD amount.

(SIGNATURE &SEAL)