



TAMILNADU MEDICAL SERVICES CORPORATION LIMITED

417 Pantheon Road, Egmore, Chennai - 8

Website : <http://tnmsc.tn.nic.in> www.tnmsc.com

E-mail: enquiry @ tnmsc.com

BID REFERENCE:15063/TNMSC/ENGG/2010,DT.18.02.2010

**TENDER FOR SUPPLY AND INSTALLATION OF
VARIOUS EQUIPMENT TO GOVT. STANLEY MEDICAL
COLLEGE HOSPITAL, CHENNAI**

LAST DATE OF RECEIPT OF BID: 31.03.2010 upto 03.00 P.M.

NOT TRANSFERABLE

ABSTRACT

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**TAMILNADU MEDICAL SERVICES CORP. LTD.,
417, PANTHEON ROAD,
EGMORE, CHENNAI 600 008.**

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**TENDER FOR SUPPLY AND INSTALLATION OF VARIOUS EQUIPMENT TO GOVT.
STANLEY MEDICAL COLLEGE HOSPITAL, CHENNAI**

BID REFERENCE : 15063/TNMSC/ENGG/2010, Dt.18.02.2010

DATE OF COMMENCEMENT
OF SALE OF BIDDING DOCUMENT : 01.03.2010

LAST DATE FOR SALE OF BIDDING
DOCUMENT : 30.03.2010

LAST DATE AND TIME FOR
RECEIPT OF BIDS : 31.03.2010 UP TO 03.00 P.M.

TIME AND DATE OF OPENING
OF BIDS : 31.03.2010 AT 04.00 PM

PLACE OF OPENING OF BIDS : Tamilnadu Medical Services Corp. Ltd.,
417, pantheon Road,
Egmore,
Chennai 600 008.

ADDRESS FOR COMMUNICATION : Tamilnadu Medical Services Corp. Ltd
417, pantheon road,
Egmore,
Chennai 600 008.

Pre-bid meeting : 15.03.2010 at 11.00 AM

SECTION I : INVITATION FOR BIDS (IFB)

SECTION I : INVITATION FOR BIDS (IFB)

Sealed Tenders in duplicate will be received till **03.00 PM on 31.03.2010** by the Managing Director, Tamilnadu Medical Services Corp. Ltd., Chennai for Supply and installation of Various Equipment to Chengulpet Medical College Hospital, Chengulpet.

1. Interested eligible Bidders may obtain further information from the office of the Tamilnadu Medical Services Corp. Ltd, 417, Pantheon Road, Egmore, Chennai-600 008. Tamilnadu. India.

A complete set of bidding documents may be purchased by any interested eligible bidder on submission of a written application to the above office and upon payment of a non-refundable fee as indicated below in the form of a Demand Draft in favour of **Tamilnadu Medical Services Corp. Ltd., payable at Chennai**. Alternatively, the tender document can be downloaded at free of cost from websites, www.tenders.tn.gov.in and www.tnmsc.com. "The bidders, who have downloaded the bid documents, shall be solely responsible for checking these websites for any addendum/amendment issued subsequently to the bid document and take into consideration the same while preparing and submitting the bids".

2. The bidding document may be obtained from the office of **Tamilnadu Medical Services Corp. Ltd., 417, Pantheon Road, Egmore, Chennai - 600 008**, during office hours namely, from **10.00 hours to 17.00 hours** on all working days either in person or by post.

- | | | | |
|----|---|---|--|
| a) | Price of bidding document
(Non-refundable) | : | Rs.5625/-
(Inclusive of all taxes)
(Alternatively, the tender
document can be downloaded from
www.tenders.tn.gov.in and
TNMSC website
www.tnmsc.com at free of cost) |
| b) | Postal charges, inland | : | Rs.200/- (extra) |
| c) | Date of commencement of
Sale of bidding document | : | 01.03.2009 |
| d) | Pre-bid meeting | : | 15.03.2010 at 11.00 AM |
| e) | Last date for sale of Bidding
Document | : | 30.03.2010 |
| • | Last date and time for Receipt
of bids | : | 31.03.2010 up to 03.00 P.M. |
| • | Time and date of Opening
of Technical bids | : | 31.03.2010 at 4.00 PM |

- h) Place of opening of bids : Tamilnadu Medical Services Corp. Ltd.,
417, Pantheon Road,
Egmore, Chennai 600 008.
- i) Address for communication : Tamilnadu Medical Services Corp. Ltd.,
417, Pantheon Road,
Egmore,
Chennai 600 008.

3. All bids must be accompanied by a bid security as specified in the bid document and must be delivered to the above office at the date and time indicated above.

4. Bids will be opened in the presence of Bidders' representative who choose to attend on the specified date and time.

SECTION II : INSTRUCTION TO BIDDERS

SECTION II: INSTRUCTIONS TO BIDDERS

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A. INTRODUCTION

1. Eligible Bidders

1.1 Manufacturers or their authorised representatives / direct importers are eligible to participate in this tender.

1.2 Bidders should not be associated, or have been associated in the past, directly or indirectly, with a firm or any of its affiliates which have been engaged by the Purchaser to provide consulting services for the preparation of the design, specifications, and other documents to be used for the procurement of the goods to be purchased under this Invitation of Bids.

1.3 Government-owned enterprises may participate only if they are legally and financially autonomous, if they operate under commercial law, and if they are not a dependent agency of the **Purchaser**.

2. Cost of Bidding

2.1 The Bidder shall bear all costs associated with the preparation and submission of its bid and **Tamilnadu Medical Services Corp. Ltd., Chennai**, hereinafter referred to as "**the Purchaser**", will in no case be responsible or liable for these costs, regardless of the conduct or outcome of the bidding process.

B. THE BIDDING DOCUMENTS

3. Contents of Bidding Documents

3.1 The goods required, bidding procedures and contract terms are prescribed in the Bidding documents. In addition to the Invitation for Bids, the Bidding Documents include:

- a. Instruction to Bidders (ITB);
- b. General Conditions of Contract (GCC);
- c. Special Conditions of Contract (SCC);
- d. Schedule of Requirements;
- e. Technical Specifications / Qualification criteria;
- f. Bid Form and Price Schedules;
- g. Bid Security form
- h. Contract Form;
- i. Performance Security Form;
- j. Performance statement
- k. Manufacturer's Authorisation Form and
- l. Bank Guarantee for Advance Payment Form

3.2 The Bidder is expected to examine all instructions, forms, terms and specifications in the Bidding Documents. Failure to furnish all information required by the Bidding Documents or submission of a bid not substantially responsive to the Bidding Documents in every respect will be at the Bidder's risk and may result in rejection of its bid.

4. Clarification of Bidding Documents

4.1 A prospective Bidder requiring any clarification of the Bidding Documents may notify the **Purchaser** in writing or by telex or cable at the **Purchaser's** mailing address indicated in the Invitation for Bids. The **Purchaser** will respond in writing to any request for clarification of the Bidding Documents which it receives not later than 7 days prior to the deadline for submission of bids prescribed by the **Purchaser**. Written copies of the **Purchaser's** response (including an explanation of the query but without identifying the source of inquiry) will be sent to all prospective Bidders which have received the bidding documents.

4.2 Pre-Bid Meeting:

a. The bidder or his official representative is invited to attend a pre-bid meeting which will take place at the office of *Tamilnadu Medical Service Corporation Limited, 417, Pantheon Road, Chennai -8, India.* on **15.03.2010 at 11.00 AM.**

b. The purpose of the meeting will be to clarify issues and to answer questions on any matter that may be raised at that stage.

c. The Bidder is requested to submit any questions in writing or by cable to reach the **Purchaser** not later than **3 days before the meeting.**

d. Minutes of the meeting, including the text of the questions raised (without identifying the source of enquiry) and the responses given will be transmitted without delay to all purchasers of the bidding documents.

e. Non-attendance at the pre-bid meeting will not be a cause for disqualification of a bidder.

5. Amendment of Bidding Documents

5.1 At any time prior to the deadline for submission of bids, the **Purchaser** may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by an amendment.

5.2 All prospective bidders who have received the Bidding Documents will be notified of the amendment in writing or by cable and will be binding on them.

5.3 In order to allow prospective bidders reasonable time in which to take the amendment into account in preparing their bid, the **Purchaser** may, at its discretion, extend the deadline for the submission of bids.

C. PREPARATION OF BIDS

6. Language of Bid

6.1 The Bid prepared by the bidder and all correspondence and documents relating to the bid exchanged by the Bidder and the **Purchaser**, shall be written in the English language. Supporting documents and printed literature furnished by the Bidder may be written in another language provided they are accompanied by an accurate translation of the relevant

passages in the English language in which case, for purposes of interpretation of the Bid, the English translation shall govern.

7. Documents Comprising the Bid

7.1 The bid prepared by the Bidder shall comprise the following components:

- (a) a Bid Form and Price Schedule completed in accordance with ITB Clauses 8, 9 and 10;
- (b) documentary evidence established in accordance with ITB Clause 11 that the Bidder is eligible to bid and is qualified to perform the contract if its bid is accepted;
- (c) documentary evidence established in accordance with ITB Clause 12 that the goods and ancillary services to be supplied by the Bidder shall conform to the Bidding Documents; and
- (d) Bid Security furnished in accordance with ITB Clause 13.

8. Bid Form

8.1 The Bidder shall complete the Bid Form and the appropriate Price Schedule furnished in the bidding documents, indicating for the goods to be supplied, a brief description of the goods, their country of origin, quantity and prices.

9. Bid Prices

9.1 The Bidder shall indicate on the Price Schedule the unit prices and total Bid prices of the goods it proposes to supply under the Contract.

9.2 Prices indicated on the Price Schedule shall be entered separately in the following manner:

- (i) The price of the goods, quoted ex-factory, ex-show-room, ex-warehouse, or off-the-shelf, or delivered, as applicable, including all duties and sales and other taxes already paid or payable:
 - a. on components and raw material use in the manufacture or assembly of the goods quoted ex-factory; or
 - b. on the previously imported goods of foreign origin quoted ex-showroom, ex-warehouse or off-the-shelf.
- (ii) any purchaser-country sales and other taxes which will be payable on the goods if this contract is awarded;
- (iii) charges for inland transportation, insurance and other local costs incidental to delivery of the goods to their final destination; and
- (iv) the cost of incidental services listed in Clause 7 of the Special Conditions of Contract.

9.3 The Bidders separation of the price components in accordance with ITB Clause 9.2 above will be solely for the purpose of facilitating the comparison of bids by the **Purchaser** and will not in any way limit the **Purchaser's** right to contract on any of the terms offered.

9.4 Fixed price: Prices quoted by the Bidder shall be fixed during the Bidder's performance of the contract and not subject to variation on any account. A bid submitted with an adjustable price quotation will be treated as non-responsive and rejected, pursuant to ITB Clause 22.

9.5 The **Purchaser** will arrange to get the Customs Duty on the Supplies to be made, be exempted from Government Authorities and certificate to the effect will be provided to the bidder on award of contract. Hence bidder should indicate separately the Customs Duty payable on the goods to be supplied by the Bidder. The bidder shall indicate the value of imported items on which the customs duty is payable. Any other duties / levies should be borne by the Bidder / Supplier.

10. Bid Currencies

10.1 Prices shall be quoted in Indian Rupees.

11. Documents establishing bidder's eligibility and qualifications

11.1 Pursuant to ITB Clause 7, the bidder shall furnish, as part of its bid, documents establishing the bidder's eligibility to bid and its qualifications to perform the Contract if its bid is accepted.

11.2 The documentary evidence of the Bidder's qualifications to perform the Contract if its bid is accepted, shall establish to the **Purchaser's** satisfactions.

(a) that, in the case of a Bidder offering to supply goods under the contract which the Bidder did not manufacture or otherwise produce, the Bidder has been duly authorised (as per authorisation form in Section XII) by the goods manufacturer or produce to supply the goods in India.

(b) that the bidder has the financial, technical and production capability necessary to perform the Contract and meets the criteria outlined in the qualification requirements specified in Section VI-A. To this end, all bids submitted shall include the following information:

(i) The legal status, place of registration and principle place of business of the company or firm or partnership, etc;

(ii) Details of experience and past performance of the bidder on equipment offered and on those of similar nature within the past five years and details of current contracts in hand and other commitments (suggested proforma given in Section XI)

12. Documents establishing goods conformity to bidding documents

12.1 Pursuant to ITB Clause 7, the Bidder shall furnish, as part of its bid, documents establishing the conformity to the bidding documents of all goods and services which the bidder proposes to supply under the contract.

12.2 The documentary evidence of conformity of the goods and services to the bidding documents may be in the form of literature, drawings and data and shall consist of:

- (a) a detailed description of the essential technical and performance characteristics of the goods;
- (b) a list giving full particulars, including available sources and current prices, of all spare parts, special tools, etc., necessary for the proper and continued functioning of the goods for a period of three years, following commencement of the goods used by the **Purchaser**; and
- (c) an item-by-item commentary on the **Purchaser's** Technical Specifications demonstrating substantial responsiveness of the goods and services to those specifications or a statement of deviations and exceptions to the provisions of the Technical Specifications.

12.3 For the purpose of the commentary to be furnished pursuant to ITB Clause 12.2 (c) above, the Bidder shall note that standards for workmanship, material and equipments and references to brand names or catalogue numbers designated by the **Purchaser** in its Technical Specifications are intended to be descriptive only and not restrictive. The Bidder may substitute alternative standards, brand names and/or catalogue numbers in its bid, provided that it demonstrates to the **Purchaser's** satisfaction that the substitutes are substantially equivalent or superior to those designated in the Technical Specifications.

13. Bid Security

13.1 Pursuant to ITB Clause 7, the Bidder shall furnish, as part of its bid, bid security for the amount as indicated in Section V schedule of requirements.

13.2 The bid security is required to protect the **Purchaser** against risk of Bidders conduct which would warrant the security's forfeiture, pursuant to ITB Clause 13.7.

13.3 The bid security shall be in Indian Rupees and shall be in one of the following forms :

- a. A Bank Guarantee or an irrevocable letter of credit issued by a nationalized / scheduled bank located in India or a bank located abroad, in the form provided in the bidding document or any other form acceptable to the purchaser and valid for 45 days beyond the validity of the bid; or
- b. A cashier's cheque, certified cheque or demand draft or letter of credit on any scheduled bank in favour of TamilNadu Medical Services Corporation Limited, payable at Chennai.

13.4 Any bid not secured in accordance with ITB Clauses 13.1 and 13.3 above will be rejected by the **Purchaser** as non-responsive, pursuant to ITB Clause 22.

13.5 Unsuccessful bidders bid security will be discharged/returned as promptly as possible but not later than 30 days after the expiration of the period of bid validity prescribed by the **Purchaser**, pursuant to ITB Clause 14.

13.6 The successful bidder's bid security will be discharged upon the bidders signing the contract, pursuant to ITB Clause 30, and furnishing the security, pursuant to ITB Clause 31.

13.7 The bid security may be forfeited:

(a) If a bidder withdraws its bid during the period of bid validity specified by the Bidder on the Bid form;

(or)

(b) In case of a successful bidder, if the bidder fails:

(i) to sign the contract in accordance with ITB Clause 30; or

(ii) to furnish performance security in accordance with ITB Clause 31.

14. Period of Validity of Bids

14.1 Bids shall remain valid for 90 days after the date of bid opening prescribed by the **Purchaser**, pursuant to ITB Clause 17. A bid valid for a shorter period may be rejected by the **Purchaser** as non-responsive.

14.2 In exceptional circumstances, the **Purchaser** may solicit the bidders consent to an extension of the period of validity. The request and the responses thereto shall be made in writing (or by cable or telex). The bid security provided under ITB Clause 13 shall be suitably extended. A bidder may refuse the request without forfeiting its bid security. A bidder granting the request is not required or permitted to modify its bid.

15. Format and Signing of Bid

15.1 The bidder shall prepare two copies of the bid clearly marking each "**Original Bid**" and "**Copy Bid**" as appropriate. In the event of any discrepancy between them, the original shall govern.

15.2 The original and all copies of the bid shall be typed or written in indelible ink and shall be signed by the Bidder or a person or persons duly authorised to bind the Bidder to the Contract. The letter of authorisation shall be indicated by written power-of-attorney accompanying the bid. All pages of the bid, except for unamended printed literature, shall be initialed by the person or persons signing the bid.

15.3 Any interlineations, erasures or overwriting shall be valid only if they are initialed by the person or persons signing the bid.

D. SUBMISSION OF BIDS

16. Sealing and Marking of Bids

16.1 The bidders shall seal the original and a copy of the bid in separate inner envelopes duly marking the envelopes as "**Original Bid**" and "**Copy Bid**". He shall then place these two inner envelope in an outer envelope.

16.2 The inner envelope and outer envelopes and the cover shall be:

(a) addressed to the **Purchaser** at the following address:

Tamilnadu Medical Services Corp. Ltd.,
417, Pantheon Road,
Egmore,
Chennai 600 008.

(b) bear the project name, the invitation for bids (IFB) number and the words **“Do not open before 4.00 P.M. on 31.03.2010.”**

16.3 The inner envelopes shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared “late”.

16.4 If the cover containing the outer envelope is not sealed and marked as required by ITB Clause 16.2, the **Purchaser** will assume no responsibility for the bid’s misplacement or premature opening.

16.5 Telex, cable or facsimile bids will be rejected.

17. Deadline for Submission of Bids

17.1 Bids must be received by the **Purchaser** at the address specified under ITB Clause 16.2 not later than the time and date specified in the Invitation of Bids (Section I). In the event of the specified date for the submission of bids being declared a holiday for the **Purchaser**, the bids will be received up to the appointed time on the next working day.

17.2 The **Purchaser** may, at its discretion, extend this deadline for submission of bids by amending the bid documents in accordance with ITB Clause 5, in which case all rights and obligations of the purchasers and bidders previously subject to the deadline will thereafter be subject to the deadline as extended.

18. Late Bids

18.1 Any bid received by the **Purchaser** after the deadline for submission of bids prescribed by the **Purchaser**, pursuant to ITB Clause 17, will be rejected and/or returned unopened to the Bidder.

19. Modification and Withdrawal of Bids

19.1 The bidder may modify or withdraw its bid after the bids submission, provided that written notice of the modification or withdrawal is received by the **Purchaser** prior to the deadline prescribed for submission of bids.

19.2 The bidders modification or withdrawal notice shall be prepared, sealed, marked and dispatched in accordance with the provisions of ITB Clause 16. A withdrawal notice may also be sent by telex or cable but followed by a signed confirmation copy, post marked not later than the deadline for submission of bids.

19.3 No bid may be modified subsequent to the deadline for submission of bids.

19.4 No bid may be withdrawn in the interval between the deadline for submission of bids and the expiration of the period of bid validity specified by the bidder on the bid form. Withdrawal of a bid during this interval may result in the bidders forfeiture of its bid security, pursuant to Clause 13.7

E. BID OPENING AND EVALUATION

20. Opening of Bids by Purchaser

20.1 The **Purchaser** will open only all bids, in the presence of bidder's representatives who choose to attend, **at 4.00 P.M. on 31.03.2010** at the following location:

**Tamilnadu Medical Services Corp. Ltd.,
417, Pantheon Road,
Egmore,
Chennai 600 008.**

The bidder's representatives who are present shall sign a register evidencing their attendance. In the event of the specified date of bid opening being declared a holiday for the **Purchaser**, the bids shall be opened at the appointed time and location on the next working day.

20.2 The bidders names, modifications, bid withdrawals and the presence or absence of the requisite bid security and such other details as the **Purchaser**, at its discretion, may consider appropriate will be announced at the opening. No bid shall be rejected at bid opening, except for late bids, which shall be returned unopened to the bidder pursuant to ITB Clause 18.

20.3 The **Purchaser** will prepare minutes of the bid opening.

20.4 The "**Price Bid**" (**Cover B**) will be opened after evaluation of "**Technical bids**" (**Cover A**) and the date and time will be intimated to bidders whose bids are responsive and who are selected by the **Purchaser**.

21. Clarification of Bids

21.1 During evaluation of bids, the **Purchaser** may, at its discretion, ask the bidder for clarification of its bid. The request for clarification and the response shall be in writing. Unless the purchaser asks for change in price due to the clarifications sought the bidder is not permitted to alter the price furnished in the "**Price bid**" "**Cover B**". The change in price shall be submitted in a separately sealed covers with marking in the cover "**supplemental price bid**" before opening of the "**original price bid**".

22. Preliminary Examination

22.1 The **Purchaser** will examine the bids to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed, and whether the bids are

generally in order. Bids from Representatives, without proper authorisation from the manufacturer as per Section XII, shall be treated as non-responsive.

22.2 Arithmetical errors will be rectified on the following basis. If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected. If the supplier does not accept the correction of errors, its bid will be rejected. If there is a discrepancy between words and figures, the amount in words will prevail.

22.3 The **Purchaser** may waive any minor informality or non-conformity or irregularity in a bid which does not constitute a material deviation, provided such a waiver does not prejudice or affect the relative ranking of any bidder.

22.4 Prior to the detailed evaluation, pursuant to Clause ITB 23, the **Purchaser** will determine the substantial responsiveness of each bid to the bidding documents. For purposes of these clauses a substantially responsive bid is one which conforms to all the terms and conditions of the bidding documents without material deviations. Deviations from or objections or reservations to critical provisions such as those concerning Performance Security (GCC Clause 6). Warranty (GCC Clause 14), Force Majeure (GCC Clause 24), Applicable law (GCC Clause 29) and Taxes and Duties (GCC Clause 31) will be deemed to be material deviation. The purchasers determination of a bids responsiveness is to be based on the contents of the bid itself without recourse to extrinsic evidence.

22.5 A bid determined as not substantially responsive will be rejected by the **Purchaser** and may not subsequently be made responsive by the bidder by correction of non-conformity.

23. Evaluation and Comparison of Bids

23.1 The **Purchaser** will evaluate and compare bids previously determined to be substantially responsive, pursuant to ITB Clause 22.

23.2 The purchasers evaluation of a bid will take into account, in addition to the bid price (ex-factory/ex-warehouse/off-the-shelf price of the goods offered from within India, such price to include all costs as well as duties and taxes paid or payable on components and raw material incorporated or to be incorporated in the goods, and excise duty on the finished goods, if payable) and price of incidental services, the following factors, in the manner and to the extent indicated in ITB Clause 23.3 and in the technical specifications:

- (a)
 - i) cost of inland transportation, insurance and other costs within India incidental to the delivery of goods to their final destination;
 - ii) The comprehensive annual maintenance charges for a period of 7 years will be added to the bid price at a discount rate of 8% per annum.
- (b) delivery schedule offered in the bid;
- (c) deviations in payment schedule from that specified in the special conditions of contract
- (d) the availability in India of spare parts and after-sales services for the equipment offered in the bid.

23.3 Pursuant to ITB Clause 23.2 the following evaluation methods will be applied:

- (a) Inland transportation, ex-factory/ from port-of-entry, insurance and incidentals.
 - (i) Inland transportation, insurance and other incidentals, for delivery of goods to the project site as stated in ITB Clause 9.2 (iii).

The above costs will also be added to the bid price.

- (b) Delivery schedule:

The **Purchaser** desires to have delivery of the goods covered under the invitation, at the time specified in the schedule of requirements. The estimated time of the arrival of the goods at the project site should be calculated for each bid after allowing for reasonable transportation time. Treating the bid offering the scheduled time of arrival as the base, a delivery “adjustment” will be calculated for other bids at 2% of the ex-factory price for each month of delay beyond the base and this will be added to the bid price for evaluation. No credit will be given to earlier deliveries and bids offering delivery beyond 2 months of stipulated delivery will be treated as unresponsive.
- (c) Deviation in Payment Schedule:

The special conditions of contract indicate the payment schedule offered by the **Purchaser**. If a bid deviates from the schedule and if such deviation is considered acceptable to the **Purchaser**, the bid will be evaluated by calculating interest earned for any earlier payments involved in the terms outlined in the bid as compared to those stipulated in this invitation at a rate of 12% per annum.
- (d) Spare parts and after sales service facilities in India:

The cost of the **Purchaser** of establishing the minimum service facilities and parts inventories, as outlined elsewhere in the bid invitation, if quoted separately, shall be added to the bid price.
- (e) Annual Maintenance Contract (AMC):
 - i. The Purchaser desires to have **separately comprehensive** maintenance charges for a period of 7 years after the expiry of free maintenance period, clearly indicating year wise comprehensive maintenance charges, which shall be added to the bid price at a discount rate of 8% per annum. **Bids without this charges will be considered as non responsive.**
 - ii. Any major repair pointed out by the **Purchaser** shall be rectified by the Supplier from the date of intimation within a period of 3 calendar days and commission the equipment to the satisfaction of the Purchaser.

24. Contacting the purchaser

24.1 Subject to ITB Clause 21, no bidder shall contact the **Purchaser** on any matter relating to its bid, from the time of bid opening to the time the contract is awarded.

24.2 Any effort by a bidder to influence the **Purchaser** in the **Purchaser's** bid evaluation, bid comparison or contract award decisions may result in rejection of the bidders bid.

F. AWARD OF CONTRACT

25. Post Qualification

25.1 In the absence of pre-qualification, the **Purchaser** will determine to its satisfaction whether the bidder that is selected as having submitted the lowest evaluated responsive bid meets the criteria specified in ITB Clause 11.2 (b) and is qualified to perform the contract satisfactorily.

25.2 The determination will take into account the bidders financial, technical and production capabilities. It will be based upon an examination of the documentary evidence of the bidders qualifications submitted by the bidder, pursuant to ITB Clause 11 as well as such other information as the **Purchaser** deems necessary and appropriate.

25.3 An affirmative determination will be a prerequisite for award of the contract to the bidder. A negative determination will result in rejection of the bidders bid, in which event the **Purchaser** will proceed to the next lowest evaluated bid to make a similar determination of that bidders capabilities to perform satisfactorily.

26. Award Criteria

26.1 Subject to ITB Clause 28, the **Purchaser** will award the contract to the successful bidder whose bid has been determined to be substantially responsive and has been determined as the lowest evaluated bid, provided further that the bidder is determined to be qualified to perform the contract satisfactorily.

27. Purchaser's right to vary quantities at time of award

27.1 The **Purchaser** reserves the right at the time of award of contract to increase or decrease the quantity of goods and services originally specified in the schedule of requirements without any change in unit price or other terms and conditions.

28. Purchaser's right to accept any bid and to reject any or all bids

28.1 The **Purchaser** reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for the purchasers action.

29. Notification of Award

29.1 Prior to the expiration of the period of bid validity, the **Purchaser** will notify the successful bidder in writing by registered letter or by cable or telex, to be confirmed, that its bid had been accepted.

29.2 The notification of award will constitute the formation of the contract.

29.3 Upon the successful bidders furnishing of performance security pursuant to ITB Clause 31, the **Purchaser** will promptly notify each unsuccessful bidder and will discharge its bid security, pursuant to ITB Clause 13.

30. Signing of Contract

30.1 At the same time as the **Purchaser** notifies the successful bidder that its bid has been accepted, the **Purchaser** will send the bidder the contract form provided in the bidding documents, incorporating all agreements between the parties.

30.2 Within 7 days of receipt of notification of award, the successful bidder shall sign and date the contract and return it to the **Purchaser**.

31. Performance Security

31.1 Within 7 days of the receipt of notification of award from the **Purchaser**, the successful bidder shall furnish the performance security in accordance with the conditions of contract, in the performance security form provided in the bidding documents or in another form acceptable to the **Purchaser**.

31.2 Failure of the successful bidder to comply with the requirement of ITB Clause 30 or ITB Clause 31 shall constitute sufficient grounds for the annulment of the award and forfeiture of the bid security, in which event the **Purchaser** may make the award to the next lowest evaluated bidder or call for new bids.

SECTION III : GENERAL CONDITIONS OF CONTRACT

**SECTION III: GENERAL CONDITIONS OF CONTRACT
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GENERAL CONDITIONS OF CONTRACT

1. Definitions

1.1 In this contract the following terms shall be interpreted as indicated:

- (a) "The Contract" means the agreement entered into between the **Purchaser** and the Supplier as recorded in the Contract Form signed by the parties, including all the attachments and appendices thereto and all documents incorporated by reference therein;
- (b) "The Contract Price" means the price payable to the Supplier under the Contract for the full and proper performance of its contractual obligations;
- (c) "The Goods" means all the equipment, machinery, and/or other materials which the Supplier is required to supply to the **Purchaser** under the Contract;
- (d) "Services" means services ancillary to the supply of the Goods, such as transportation and insurance, and other incidental services, such as installation, commissioning, provision of technical assistance, training and other obligations of the Supplier covered under the contract;
- (e) "GCC" means the General Conditions of Contract contained in this section.
- (f) "SCC" means the Special Conditions of Contract.
- (g) "The **Purchaser**" means the Organisation purchasing the Goods, as named in SCC;
- (h) "The Supplier" means the individual or firm supplying the Goods under this Contract;
- (i) "The Project Site", where applicable means the place or places named in SCC.
- (j) "Day" means calendar day.
- (k) "Delivery period" means the period applicable upto completion of supply, installation, testing and commissioning of the equipment by the supplier at the Project site and accepted by the Purchaser.

2. Application

2.1 These General Conditions shall apply to the extent that they are not superseded by provisions in other parts of the Contract.

3. Standards

3.1 The Goods supplied under this Contract shall conform to the standards mentioned in the Technical Specifications, and, when no applicable standard is mentioned, to the authoritative standard appropriate to the Goods country or origin and such standards shall be the latest issued by the concerned institution.

4. Use of Contract Documents and Information

4.1 The Supplier shall not, without the **Purchaser's** prior written consent, disclose the Contract, or any provision thereof, or any specification, plan, drawing, pattern, sample or information furnished by or on behalf of the **Purchaser** in connection therewith, to any person other than a person employed by the Supplier in performance of the Contract. Disclosure to any such employed person shall be made in confidence and shall extend only so far as may be necessary for purposes of such performance.

4.2 The Supplier shall not, without the **Purchaser's** prior written consent, make use of any document or information enumerated in GCC Clause 4.1 except for purposes of performing the Contract.

4.3 Any document, other than the Contract itself, enumerated in GCC clause 4.1 shall remain the property of the **Purchaser** and shall be returned (in all copies) to the **Purchaser** on completion of the supplier's performance under the Contract if so required by the **Purchaser**.

5. Patent Rights

5.1 The Supplier shall indemnify the **Purchaser** against all third-party claims of infringement of patent, trademark or industrial design rights arising from use of the Goods or any part thereof in India.

6 Performance Security

6.1 Within 7 days after the Supplier's receipt of notification of award of the Contract, the Supplier shall furnish performance security to the **Purchaser** in the amount specified in the Special Conditions of Contract.

6.2 The proceeds of the performance security shall be payable to the **Purchaser** as compensation for any loss resulting from the Supplier's failure to complete its obligations under the Contract.

6.3 The Performance Security shall be denominated in India Rupees and shall be in one of the following forms:

- (a) A Bank guarantee issued by a nationalized/ scheduled bank located in India and in the form provided in the bidding Documents or any other form acceptable to the **Purchaser**; or
- (b) A cashier's cheque, certified cheque, or demand draft.

6.4 The performance security will be discharged by the **Purchaser** and returned to the Supplier not later than 30 days following the date of completion of the Supplier's

performance obligations, including any warranty obligations, unless specified otherwise in SCC

7. Inspection and Tests

7.1 The **Purchaser** or its representative shall have the right to inspect and/or to test the Goods to confirm their conformity to the Contract at no extra cost of the **Purchaser**. The Special conditions of Contract and/or the Technical Specifications shall specify what inspections and tests the **Purchaser** requires and where they are to be conducted. The **Purchaser** shall notify the Supplier in writing of the identity of any representatives retained for these purposes.

7.2 The inspections and test may be conducted on the premises of the Supplier or its subcontractor(s), at point of delivery and/or at the Goods final destination. Where conducted on the premises of the Supplier or its subcontractor(s), all reasonable facilities and assistance including access to drawings and production data - shall be furnished to the inspectors at no charge to the **Purchaser**.

7.3 Should any inspected or tested Goods fail to conform to the specifications, the **Purchaser** may reject them and the Supplier shall either replace the rejected Goods or make all alternations necessary to meet specification requirements free of cost to the **Purchaser**.

7.4 The Purchasers right to inspect, test and, where necessary, reject the Goods' arrival in at site shall in no way be limited or waived by reason of the Goods having previously been inspected, tested and passed by the **Purchaser** or its representative prior to the Goods despatched.

7.5 Nothing in GCC Clause 7 shall in any way release the Supplier from any warranty or other obligations under this Contract.

8.0 Packing

8.1 The Supplier shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination as indicated in the Contract. The packing shall be sufficient to withstand, without limitation, rough handling during transit and exposure to extreme temperatures, salt and precipitation during transit and open storage. Packing case size and weights shall take into consideration, Where appropriate, the remoteness of the Goods final destination and the absence of heavy handling facilities at all points in transit.

8.2 The packing, marking and documentation within and outside the packages shall comply strictly with such special requirements as shall be provided for in the Contract including additional requirements, if any, specified in SCC and in any subsequent instructions ordered by the **Purchaser**.

9. Delivery and Documents

9.1 Delivery of the Goods shall be made by the Supplier in accordance with the terms specified by the **Purchaser** in the Notification of Award. The details of despatching and/or other documents to be furnished by the supplier are specified in SCC.

10. Insurance

10.1 The Goods Supplied under the Contract shall be fully insured in Indian Rupees against the loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the manner specified in the Special Conditions of Contract.

11. Transportation

11.1 Where the Supplier is required under the Contract to transport the Goods to a specified place of destination within the India defined as Project site, transport to such place of destination in India insurance, as shall be specified in the Contract, shall be arranged by the Supplier, and the related cost shall be included in the Contract Price.

12. Incidental Services

12.1 The supplier may be required to provide any or all of the following services, including additional services, if any, specified in SCC:

- (a) Performance or supervision of the on-site assembly and/or start-up of the supplied Goods;
- (b) furnishing of tools required for assembly and/or maintenance of the supplied Goods;
- (c) furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods.
- (d) performance or supervision or maintenance and/or repair of the supplied Goods, for a period of time agreed by the parties, provided that this service shall not relieve the Supplier of any warranty obligations under this Contract; and
- (e) training of the **Purchaser's** Personnel, at the Supplier's plant and/or on-site, in assembly, start-up, operation, maintenance and/or repair of the supplied Goods.

12.2 Prices charged by the Supplier for incidental services, if not included in the contract Price of the Goods, shall be agreed upon in advance by the parties and shall not exceed the prevailing rates charged to other parties by the Supplier for similar services.

13. Spare Parts

13.1 As specified in the Special Conditions of Contract, the Supplier may be required to provide any or all of the following materials and notifications and information pertaining to spare parts manufactured or distributed by the Supplier:

- (a) Such spare parts as the **Purchaser** may elect to purchase from the Supplier, providing that this election shall not relieve the Supplier of any warranty obligations under the Contract; and
- (b) In the event of termination of production of the spare parts:
 - (i) advance notification to the **Purchaser** of the pending termination, in sufficient time to permit the **Purchaser** to procure needed requirements; and
 - (ii) following such termination, furnishing at no cost to the **Purchaser**, the blueprints, drawings and specifications of the spare parts, if and when requested.

14. Warranty

14.1 The Supplier warrants that the Goods supplied under this Contract are new, unused, of the most recent or current models and incorporate all recent improvements in design and materials unless provided otherwise in the Contract. The supplier further warrants that the Goods supplied under this Contract shall have no defect arising from design, materials or workmanship (except when the design and/or material is required by the **Purchaser's** specifications) or from any act or omission of the Supplier, that may develop under normal use of the supplied Goods in conditions obtaining in the country of final destination.

14.2 This warranty shall remain valid for **three years** after the Goods or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the Contract.

14.3 The **Purchaser** shall promptly notify the supplier in writing of any claims arising under this warranty.

14.4 Upon receipt of such notice , the Supplier shall, within the period specified in SCC and with all reasonable speed, repair or replace the defective Goods or parts thereof, without cost to the **Purchaser**.

14.5 If the Supplier, having been notified, fails to remedy the defect(s) within the period specified in SCC within a reasonable period, the **Purchaser** may proceed to take such remedial action as may be necessary, at the Supplier's risk and expense and without prejudice to any other rights which the **Purchaser** may have against the Supplier under the contract.

15. Payment

- 15.1 The method and conditions of payment to be made to the Supplier under the Contract shall be specified in the Special Conditions of Contract.
- 15.2 The Suppliers request(s) for payment shall be made to the **Purchaser** in writing, accompanied by an invoice describing, as appropriate, the Goods delivered and the services performed, and by documents, submitted pursuant to GCC Clause 9, and upon fulfillment of other obligations stipulated in the contract.
- 15.3 Payment shall be made promptly by the **Purchaser** but in no case later than sixty (60) days after submission of the invoice/claim by the Supplier.
- 15.4 Payment shall be made in Indian Rupees

16. Prices

16.1 Prices charged by the Supplier for Goods delivered and Services performed under the Contract shall not vary from the prices quoted by the Supplier in its bid, with the exception of any prices adjustments authorized in the special Conditions of Contract or in the **Purchaser's** request for bid validity extensions, as the case may be.

17. Change Orders

17.1 The **Purchaser** may at any time by written order given to the Supplier pursuant to GCC Clause 30, make changes within the general scope of the Contract in any one or more of the following:

- (a) drawings, designs or specifications, where Goods to be furnished under the Contract are to be specifically manufactured for the **Purchaser**;
- (b) the method of shipping or packing
- (c) the place of delivery; or
- (d) the services to be provided by the Supplier.

17.2 If any such changes causes an increase or decrease in the cost of, or the time required for, the Supplier's performance of any provisions under the Contract, an equitable adjustment shall be made in the Contract Price or delivery schedule, or both, and the Contract shall accordingly be amended. Any claims by the Supplier for adjustment under this clause must be asserted within thirty (30) days from the date of the Supplier's receipt of the **Purchaser's** change order.

18. Contract Amendments

18.1 Subject to GCC Clause 17, no variation in or modification of the terms of the Contract shall be made except by written amendment signed by the parties.

19. Assignment

19.1 The Supplier shall not assign, in whole or in part, its obligations to perform under the contract, except with the **Purchaser's** prior written consent.

20. Subcontracts

20.1 The supplier shall notify the **Purchaser** in writing of all subcontracts awarded under the contract if not already specified in his bid. Such notification, in his original bid or later, shall not relieve the Supplier from any liability or obligation under the contract.

21. Delays in the Supplier's Performance

21.1 Delivery of the Goods and performance of the Services shall be made by the Supplier in accordance with the time schedule specified by the **Purchaser** in its Schedule of Requirements.

21.2 If at any time during the performance of the Contract, the Supplier or its subcontractor(s) should encounter conditions impeding timely delivery of the goods and performance of the Services, the Supplier shall promptly notify the **Purchaser** in writing of the fact of the delay, its likely duration and its cause(s). As soon as practicable after receipt of the Supplier's notice, the **Purchaser** shall evaluate the situation and may at its discretion extend the Supplier's time for performance with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Contract.

21.3 Except as provided under GCC Clause 24, a delay by the Supplier in the performance of its delivery obligation shall render the supplier liable to the imposition of liquidated damages pursuant to GCC Clause 22, unless any extension of time is agreed upon pursuant to GCC clause 21.2 without the application of liquidated damages.

22. Liquidated Damages

22.1 Subject to GCC Clause 24, if the Supplier fails to deliver any or all of the Goods or to perform the Services within the period(s) specified in the Contract, the **Purchaser** shall, without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to the percentage specified in SCC of the delivered price of the delayed Goods or unperformed Services for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in the SCC. Once the maximum is reached, the **Purchaser** may consider termination of the Contract pursuant to GCC Clause 23.

23. Termination by Default

- 23.1 The **Purchaser** may, without prejudice to any other remedy for breach of contract, by written notice of default sent to the supplier, terminate the Contract in whole or part;
- (a) if the Supplier fails to deliver any or all of the goods within the time period(s) specified in the Contract, or within any extension thereof granted by the **Purchaser** pursuant to clause 21; or
 - (b) if the Supplier fails to perform any other obligation(s) under the Contract.
- 23.2 In the event the **Purchaser** terminates the Contract in whole or in part, pursuant to GCC Clause 23.1, the **Purchaser** may procure, upon such terms and in such manner as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier shall be liable to the **Purchaser** for any excess costs for such similar Goods. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

24. Force Majeure

- 24.1 Notwithstanding the provisions of GCC Clauses 21,22,23, the Supplier shall not be liable for forfeiture of its performance security, liquidation damages or termination for default, if and to the extent that, its delay in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.
- 24.2 For purposes of this Clause “Force Majeure” means an event beyond the control of the Supplier and not involving the Supplier’s fault or negligence and not foreseeable. Such events may include, but are not limited to, acts of the **Purchaser** either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- 24.3 If a Force Majeure situation arises, the Supplier shall promptly notify the **Purchaser** in writing of such conditions and the cause thereof. Unless otherwise directed by the **Purchaser** in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the force majeure event.

25. Termination for Insolvency

- 25.1 The **Purchaser** may at any time terminate the Contract by giving written notice to the Supplier, if the Supplier becomes bankrupt or otherwise insolvent. In this event, termination will be without compensation to the Supplier, provided that such termination will not prejudice or affect any right of action or remedy which has accrued or will accrue thereafter to the **Purchaser**.

26. Termination for Convenience

- 26.1 The **Purchaser**, may by written notice sent to the Supplier, may terminate the Contract, in whole or in part, at any time for its convenience. The notice of termination

shall specify that termination is for the **Purchaser's** convenience, the extent to which performance of work under the Contract is terminated, and the date upon which such termination becomes effective.

26.2 The Goods that are complete and ready for shipment within 30days after the Supplier's receipt of notice of termination shall be purchased by the **Purchaser** at the Contract terms and prices. For the remaining Goods, the **Purchaser** may elect.

(a) to have any portion completed and delivered at the Contract terms and prices; and /or

(b) to cancel the remainder and pay to the Supplier an agreed amount for partially completed Goods and for materials and parts previously procured by the Supplier.

27. Resolution of Disputes

27.1 The **Purchaser** and the supplier shall make every effort to resolve amicably by direct informal negotiation any disagreement or dispute arising between them under or in connection with the Contract.

27.2 If, after thirty (30) days from the commencement of such informal negotiations, the **Purchaser** and the Supplier have been unable to resolve amicably a Contract dispute, either party may require that the dispute be referred for resolution to the formal mechanisms specified in the Special Conditions of Contract. These mechanisms may include, but or not limited to, conciliation mediated by a third Party, adjudication in an agreed national forum, and national arbitration.

28. Governing Language

28.1 The contract shall be written in English language. Subject to Clause 29, English language version of the Contract shall govern its interpretation. All correspondence and documents pertaining to the Contract which are exchanged by the parties shall be written in the same language.

29. Applicable Law

29.1 The Contract shall be interpreted in accordance with the laws of the Union of India.

30. Notices

30.1 Any notice given by one party to the other pursuant to this Contract shall be sent to other party in writing or by cable, telex or fascimile and confirmed in writing to the other Party's address specified in Special Conditions of Contract.

30.2 A notice shall be effective when delivered or on the notice's effective date, whichever is later.

31. Taxes and Duties

31.1 Suppliers shall be entirely responsible for all taxes, duties, license fees, octroi, road permits, etc., incurred until delivery of the contracted Goods to the **Purchaser**. However, Sales tax in respect of the transaction between the **Purchaser** and the Supplier shall be payable extra, if so stipulated in the Notification of Award.

SECTION IV: SPECIAL CONDITIONS OF CONTRACT

**SECTION IV: SPECIAL CONDITIONS OF CONTRACT
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SPECIAL CONDITIONS OF CONTRACT

The following Special Conditions of Contract shall supplement the General Conditions of Contract. Whenever there is a conflict, the provisions herein shall prevail over those in the General Conditions of contract. The Corresponding clause number of the General Conditions is indicated in parentheses.

1. Definitions(GCC Clause 1)

- (a) The **Purchaser** is **Tamilnadu Medical Services Corp. Ltd., Chennai.**
- (b) The Supplier is.....
- (c) Project site is the place(s) mentioned in the Schedule of Requirements

2. Performance Security (GCC Clause 6)

2.1 Substitute Clause 6.1 of GCC by the following:

Within 7 days after the Supplier’s receipt of Notification of Award, the Supplier shall furnish performance Security to the **Purchaser** for an amount of 5% of the contract value valid up to 60 days after the date of completion of Performance obligations including warranty obligations.

2.2 Substitute Clause 6.3 (b) of GCC by the following:

A cashier’s cheque or banker’s certified cheque or crossed demand draft or pay order drawn in favour of the **Purchaser**.

2.3 Substitute Clause 6.4 of the GCC by the following:

The Performance Security will be discharged by the **Purchaser** and returned to the Supplier not later than 60 days following the date of completion of the Supplier’s performance obligations, including the warranty obligations, under the Contract on submission of 4 quarterly maintenance certificates per year for 3yaers issued by the authorities.

2.4 Add Clause 6.5 to the GCC of the following:

In the event of any contract amendment, the supplier shall, within 7 days of receipt of such amendment, furnish the amendment to the Performance Security, rendering the same valid for the duration of the Contract, as amended for further period of 60 days thereafter.

3. **Inspection and Tests (GCC Clause 7)**

The following inspection procedures and tests are required by the **Purchaser**;

The supplier shall get each equipment inspected in manufacturer's works and submit a test certificate and also guarantee/warranty certificate that the equipment conforms to laid down specifications.

The **Purchaser** or its representative shall inspect and/or test any or all the equipment to confirm their conformity to the Contract specifications, prior to despatch from the manufacturer's premises. Such inspection and clearance will not prejudice the right of the consignee to inspect and test the equipment on receipt at destination.

If the equipment fails to meet the laid down specifications the supplier shall take immediate steps to remedy the deficiency or replace the defective equipment to the satisfaction of the **Purchaser**.

4. **Packing (GCC Clause 8)**

Add as Clause 8.3 of the GCC the following:

Packing Instruction: The Supplier will be required to mark separate packages for each consignee. Each package will be marked on three sides with proper paint/indelible ink, the following:

- i) Project
- ii) Contract No.
- iii) Supplier's Name
- iv) Packing list reference number

5. **Delivery and Documents (GCC Clause 9)**

Upon delivery of the Goods, the Supplier shall notify the **Purchaser** and the Insurance Company by cable or Telex or fax the full details of shipment including the Contract number, railway receipt number and date, description of Goods, quantity, names of the consignee etc.

The Supplier shall mail the following documents to the **Purchaser**, with a copy to the Insurance Company.

- (i) Three Copies of Supplier invoice showing Goods description, quantity, unit price, total amount;
- (ii) Railway receipt/acknowledgment of receipt of goods from the Consignee(s)
- (iii) Insurance Certificate;
- (iv) Manufacturer's/ Supplier's warranty and test Certificate;

- (v) Inspection Certificate issued by the nominated inspection agency, and the Supplier's factory inspection report;

The above documents shall be received by the **Purchaser** before arrival of Goods (except where the Goods have been delivered directly to the Consignee with all documents) and, if not received, the supplier will be responsible for any consequent expenses.

6. Insurance (GCC Clause 10)

For delivery of goods at site, the insurance shall be obtained by the Supplier in an amount equal to 110% of the value of the goods from "Warehouse to Warehouse" (Final destinations) on "All Risks" basis including War Risks and Strike.

7. Incidental Service (GCC Clause 12)

The following services covered under Clause 12 shall be furnished and the cost shall be included in the contract price:

- (a) Unloading, safe storage and handling of consignment of site.
- (b) On site assembly if any of the supplied goods, installation, testing and commissioning of the equipment.
- (c) Furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods;

8. Spare parts (GCC Clause 13)

Add as Clause 13.2 to the GCC the following:

Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the Goods. Other main spare parts and components shall be supplied as promptly as possible but in any case within one week of placement of order.

9. Warranty (GCC Clause 14)

9.1 Substitute GCC Clause 14.2 by the following:-

This warranty shall remain valid for 3 years after goods or any portion thereof as the case may be, have been delivered to and accepted at the final destination indicated in the contract. The supplier shall carryout the periodical maintenance once in 3 months during the 3 years warranty period. The report should be submitted to the purchaser.

9.2 The Supplier shall, in addition, comply with the performance and/ or consumption guarantees specified under the contract. If for reasons attributable to the Supplier, these guarantees are not attained in whole or in part, the Supplier shall at its discretion either:

- (a) make such changes, modifications, and/or additions to the Goods or any part thereof as may be necessary in order to attain the contractual guarantees specified in the Contract at its own cost and expense and to carry out further performance tests in accordance with SCC 3:

10. Payment (GCC Clause 15)

Payment for Goods and Services shall be made in Indian Rupees as follows:

(i) No advance payment is payable.

(ii) 100% payment will be made against supply and installation of the equipments at the respective sites against certification from the consignee.

11. Prices (GCC Clause 16)

Substitute Clause 16.1 of the GCC with the following:

Prices payable to the Supplier as stated in the Contract shall not be subject to adjustment during performance of the Contract.

12. Sub-Contract (Clause 20)

Add at the end of sub-clause 20.1 the following:

Sub-contract shall be only for bought-out items and sub-assemblies.

13. Liquidated Damages (GCC Clause 22)

13.1 For delays:

Substitute GCC Clause 22.1 by the following

Subject to Clause 24, if the Supplier fails to deliver any or all of the Goods or perform of services within the time period(s) specified in the Contract, the **Purchaser** shall without prejudice to its other remedies under the Contract, deduct from the Contract Price, as liquidated damages, a sum equivalent to 0.5 percent of the delivered price of the delayed Goods or unperformed Services for each week of delay or part thereof until actual delivery or performance, up to a maximum deduction of 10 percent of the delayed Goods or Services contract price. Once the maximum is reached, the **Purchaser** may consider termination of the Contract.

14. Resolution of Disputes (GCC Clause 27)

Add as GCC Clauses 27.3 and 27.4 the following:

27.3 The dispute resolution mechanism to be applied pursuant to GCC Clause 27 shall be as follows:

(a) In the case of a dispute or difference arising between the **Purchaser** and a Supplier relating to any matter arising out of or connected with this agreement, such dispute or difference shall be settled in accordance with the Arbitration and Conciliation Act 1996 the Arbitral Tribunal shall consist of 3 Arbitrator, one each to be nominated by the **Purchaser** and the supplier. The third Arbitrator shall be chosen by the two Arbitrators so appointed by the parties and shall act as Presiding Arbitrator. In case of failure of the two Arbitrator appointed by the parties to reach upon a consensus within a period of 30 days from the appointment of the Arbitrator appointed subsequently, the Presiding Arbitrator shall be appointed by the President of Institute of Engineers (India).

27.4 The venue of arbitration shall be the place from where the Contract is issued (ie.) Chennai.

15. Notices (clause 30)

For the purpose of all notices, the following shall be the address of the **Purchaser** and Supplier.

Purchaser: Tamilnadu Medical Services Corp. Ltd.,
417, Pantheon Road,
Egmore,
Chennai 600 008.

Supplier:

(To be filled in at the time of Contract signature)

16. Annual Maintenance Contract (AMC):

16.1 Any major repair pointed out by the **Purchaser** shall be rectified by the Supplier from the date of intimation within a period of 3 calendar days and commission the equipment to the satisfaction of the Purchaser. Failing which the Purchaser has a right to levy a penalty on the Supplier a sum of Rs.10,000/- per day or part thereof for each equipment until the equipments are repaired and commissioned to the satisfaction of the Purchaser.

16.2 The Supplier shall indicate clearly the free guarantee maintenance of the whole system supplied by the Supplier and the same should not be less than 2 years.

16.3 The Supplier shall also indicate separately post guarantee maintenance cost of the entire system for 7 years subsequent to free maintenance period and shall clearly indicate

year wise maintenance cost with probable cost of spares required for each year, in addition to comprehensive maintenance charges.

17. **Enclosures to Bid:**

17.1 Technical bid (Cover A):

Technical Bid shall include the duly filled up Tender documents along with

- a) Bid Security.
- b) Duly attested copy of License if any, approved by the concerned Licensing Authority.
- c) For Importers Photocopy of License renewed upto date.
- d) Documentary evidence of constitution of firm such as Memorandum of Articles, Partnership Deed, etc., with details of Name, Address, Tel. No., Fax No., E-mail Address of firm and the Managing Director / Partner / Proprietor.
- e) Authorisation of senior responsible officer of the Company to transact business.
- f) Annual turnover statement last for three years certified by the Auditor.
- g) Copies of Balance Sheet and Profit & Loss Account for three years certified by the Auditors.
- h) Sales Tax clearance Certificate as on 31.03.2009.
- i) Notarised statement of the Installed manufacturing capacity of the Items quoted.
- j) Qualification Criteria – Section VI-A
- k) Performance Statement - Section XI
- l) Manufacturer's Authorisation Form - Section XII
- a) Technical compliance statement, literature, data sheet and other documents in support of the goods / services.**
- a) Any deviations
- b) List of items quoted (without prices) with model Number, manufacturer and corresponding USFDA/CE/ISI/BIS certificate applicable as called for in the specification. This shall be placed at 1st sheet of the technical bid.**

17.2 Price Bid (Cover B): Separate cover should used for each of the item in the schedule of requirement.

Price bid shall include

- a) Duly filled in Price Schedule - Section VII
- b) Bid Form

Please note that the Bidder run the risk of his bid being rejected if the Price Schedule contains any conditions.

SECTION V : SCHEDULE OF REQUIREMENTS

SECTION - V
SCHEDULE OF REQUIREMENTS

Sl. No.	Item code	Name of the Item	Qty	CAMC Requirement	Specification
Bid security – R s.50,000/-					
1.	S001	Embalming machine for cadavers	2	Yes	S1
2.	S002	Computerized polyrite with CPU and monitor of animal studies	1	Yes	S2
3.	S003	5 Parts hematology analyzer with auto leader	1	Yes	S3
4.	S004	Fully automated multiparameter coagulation analyzer	1	Yes	S4
5.	S005	Automated culture system (anaerobes fungal and TB)	1	Yes	S5
6.	S006	Real time PCR System	1	Yes	S6
7.	S007	Kymography electric independent unit with organ batch	30	Yes	S7
8.	S008	Weighing machine for organs – Electric	1	Yes	S8
9.	S009	Ultra sound machine	1	Yes	S9
10.	S010	Diode laser equipment for hairremoval procedures	1	Yes	S10
11.	S011	ECT machine Preferably EEG machine monitoring	2	Yes	S11
12.	S012	Bubble CPAP	1	Yes	S12
13.	S013	Pulmonary function test (Spirometry, Lung volume and diffusion capacity)	1	Yes	S13
14.	S014	Ultrasonography equipment	3	Yes	S14
15.	S015	Trancranial Colour Doppler	1	Yes	S15
16.	S016	Semi auto analyzer	1	Yes	S16
17.	S017	Fully automated bio chemistry analyzer	1	Yes	S17
18.	S018	2 D Echocardiograph Colour Doppler System	1	Yes	S18
19.	S019	Deep freeze (-20°C)	1	Yes	S19
20.	S020	Fiberoptic laryngoscope / intubating	2	Yes	S20
21.	S021	C –arm (image intensifier)	1	Yes	S21
22.	S022	Craniotome with N2O cylinder	2	Yes	S22
23.	S023	Argon laser	1	Yes	S23
24.	S024	Stroboscopy	1	Yes	S24
25.	S025	(a) Side view scope	1	Yes	S25 (a)
		(b)ECG machine	1	Yes	S25 (b)
		(c) Ventilator	1	Yes	S25 (c)
26.	S026	Mobile C-arm X-ray image intensifier	1	Yes	S26
27.	S027	(a) Heart lung machine machine (imported)	1	Yes	S27 (a)
		(b) Hypothermia	1	Yes	S27 (b)

Sl. No.	Item code	Name of the Item	Qty	CAMC Requirement	Specification
28.	S028	Binocular Microscope with Monitor Requisite software with camera	1	Yes	S28
29.	S029	Portable ultrasound scanner	1	Yes	S29
30.	S030	C- arm image intensifier	1	Yes	S30
31.	S031	Binocular light microscope with camera and video monitor	1	Yes	S31

Delivery place :- The items are to be supplied and installed to Govt. Stanley Medical College Hospital, Chennai

Delivery Period : Within 30 days from the date of purchase order.

To be filled and furnished in the technical offer

Sl. No.	Item code	Name of the Item	Qty	Model quoted *	Make *	Manufacturer *	Documentation enclosed CE/FDA/ISI-BIS *	CAMC quoted / Not quoted *	Deviation / No deviation against the technical specification *
1.	S001	Embalming machine for cadavers	2					Yes	
2.	S002	Computerized polyrite with CPU and monitor of animal studies	1					Yes	
3.	S003	5 Parts hematology analyzer with auto leader	1					Yes	
4.	S004	Fully automated multiparameter coagulation analyzer	1					Yes	
5.	S005	Automated culture system (anaerobes fungal and TB)	1					Yes	
6.	S006	Real time PCR System	1					Yes	
7.	S007	Kymography electric independent unit with organ batch	30					Yes	
8.	S008	Weighing machine for organs – Electric	1					Yes	
9.	S009	Ultra sound machine	1					Yes	
10.	S010	Diode laser equipment for hairremoval procedures	1					Yes	
11.	S011	ECT machine	2					Yes	

Sl. No.	Item code	Name of the Item	Qty	Model quoted *	Make *	Manufacturer *	Documentation enclosed CE/FDA/ISI-BIS *	CAMC quoted / Not quoted *	Deviation / No deviation against the technical specification *
		Preferably EEG machine monitoring							
12.	S012	Bubble CPAP	1					Yes	
13.	S013	Pulmonary function test (Spirometry, Lung volume and diffusion capacity)	1					Yes	
14.	S014	Ultrasonography equipment	3					Yes	
15.	S015	Trancranial Colour Doppler	1					Yes	
16.	S016	Semi auto analyzer	1					Yes	
17.	S017	Fully automated bio chemistry analyzer	1					Yes	
18.	S018	2 D Echocardiograph Colour Doppler System	1					Yes	
19.	S019	Deep freeze (-20°C)	1					Yes	
20.	S020	Fiberoptic laryngoscope / intubating	2					Yes	
21.	S021	C -arm (image intensifier)	1					Yes	
22.	S022	Craniotome with N2O cylinder	2					Yes	
23.	S023	Argon laser	1					Yes	
24.	S024	Stroboscopy	1					Yes	
25.	S025	(a) Side view scope	1					Yes	
		(b) ECG machine	1					Yes	
		(c) Ventilator	1					Yes	
26.	S026	Mobile C-arm X-ray image intensifier	1					Yes	

Sl. No.	Item code	Name of the Item	Qty	Model quoted *	Make *	Manufacturer *	Documentation enclosed CE/FDA/ISI-BIS *	CAMC quoted / Not quoted *	Deviation / No deviation against the technical specification *
27.	S027	(a)Heart lung machine and	1					Yes	
28.		(b)Hypothermia machine (imported)						Yes	
29.	S028	Binocular Microscope with Monitor Requisite software with camera	1					Yes	
30.	S029	Portable ultrasound scanner	1					Yes	
31.	S030	C- arm image intensifier	1					Yes	
32.	S031	Binocular light microscope with camera and video monitor	1					Yes	

*** Mandatory Fields**

Note : Technical compliance Statement is mandatory for the item quoted.

Note :- The bidder shall submit the sample of the model quoted by them on 12.04.2010. Hence, the bidder shall make necessary arrangement to get the sample well in advance to enable submission of the samples on that day without fail.

SECTION VI : TECHNICAL SPECIFICATIONS

SECTION VI : TECHNICAL SPECIFICATIONS

1. EMBALMING MACHINE

S1

½ HP – electric motor with 10 litres storage capacity – working on 220V AC.

2. COMPUTERIZED POLYRITE WITH CPU AND MONITOR OF ANIMAL STUDIES S2

Frogs / rat /small neurophysiology study: electronic transducer / Electronic animal nerve stimulating electrode /Nerve chamber with cables / Shielded lead wires / muscle holder & manipulator with stand/ student stimulator / Isotonic lever / pulse transducer / bridge POD /force transducer / Software for animal studied computerized polyrite with CPU (1 GB RAM, 512 hard disk, intel Pentium processor 4, DVD writer, Key board, mouse with com ports) and monitor (17” FST monitor, 1024x768 resolution,/ compatible LAPTOP with 2 GB windows XP) of animal studies, printer (any A4 windows compatible, laser JET, colour printer.

3. 5 PARTS HEMATOLOGY ANALYZER WITH AUTO LEADER

S3

- The instrument should be fully automated fluorescence flow cytometry based 5 – part differential hematology analyzer offering automatic start-up, shut down and sample analysis.
- The instrument should have 24 PARAMETERS reported : WBC, RBC, HGB, HCT, MCV, MCH, RDW-SD, RDW-CV, PLT, NEUT%, LYMPH%, MONO%, EOS%, BASO%, NEUT#, LYMPH#, MONO#, EOS#, BASO#, PDW, MPV, PCT, P-LCR, SPECIAL RESERCH PARAMETERS-IG%IG#, THREE HISTOGRAMS – WBC, RBC, PLT AND ONE SCATTERGRAMS –DIFF.
- The instrument should have throughput of more than 75 samples per hour in both the discrete analysis modes.
- The sample volume for the complete differential blood count should not be more than 150 miroliter.
- The instrument should have the following analysis modes, Manual – open & closed cap piercing (CP) capability to aspirate from closed tubes, capillary mode and optional sampler mode.
- The instrument should have options for auto sampler & integrated barcode reader.

- The instrument should have minimum maintenance with semiconductor laser, has lower power consumption, higher stability, and longer life thus cutting down on maintenance cost.
- The instrument should have built in QC software.
- The instrument should have multilingual user interface.
- The system should operate on 230/110 VAC, 50/60 Hz, 350 VA.
- The company should have Chennai based engineer for better after sales service.

4. FULLY AUTOMATED COAGULATION ANALYZER

S4

- It should be fully Automated, Random Access, 6 channel blood coagulation analyser.
- It should perform at least 5 parameter for one sample.
- Should be based on principle of Scattered light detection and percentage end point detection method for clotting. Colorimetric for Chromogenic assay and latex enhanced turbidimetric method for Immunoassay.
- Should give derived Fibrinogen value for each PT sample at no extra cost.
- It should have continuous sample loading facility. Should use primary tube directly.
- It should have facility for automatic barcode reader for sample identification.
- It should have at least 4 positions for reagent cooling to avoid reagent deterioration.
- It should have touch screen LCD facility for easy operator intervention and understanding.
- It should have built in thermal graphic printer.
- It should have capacity of storing 1500 test results in its memory with coagulation curve.
- It should support a wide range of parameters like PT, APTT, Pro C Global, Factor assays, LA I & LA2, Protein C, Protein S, Alpha 2 antiplasmin, Heparin, C1 inhibitor, Plasminogen activator inhibitor, Fibrin monomer, Fibrinogen, Thrombin Time, AT III, D-Dimer, P- FOP.
- It should automatically aspirate, dispense, incubate & measure sample and reagent. The probe should have internal heating coil for 37 deg C temperature.

- It should use only one cleaning solution for all assays.
- It should be a true walk away system.
- Cost of consumables- Cuvette should not cost more than Rs. 6.00 per test. The cost of consumables for 5 years for PT & APTT should be provided separately.
- Cuvette cost for 100 tests per day for 5 years should be given for comparison.
- Should have non volatile memory to retain data base in the event of power interruption.
- Should pass into standby status if not used for more than 30 minutes.
- Should have Fully automatic microcomputer controlled microcentrifugal analyser.
- Should have video display unit and displays the status of instrument and instruction on how to proceed.
- Should perform automatic calibration and should be capable in carrying out system precision quality assurance programme.

5. AUTOMATED CULTURE SYSTEM (ANAEROBES FUNGAL AND TB)

S5

- Fully automated microbial detection system capable of culturing blood & sterile body fluids and myco tuberculosis with susceptibility.
- Bench top model.
- Temperature range 18-45^o C.
- Algorithms to detect growth at different phases of bacteria. Especially the delayed vial entry feature.
- Continuous monitoring and reading at every 10 minutes.
- Reading by noninvasive method.
- LCD display
- Bottle status display on the LCD screen.
- Automated flagging of positive, negative, anonymous positive & negative – till – data bottles.
- US-FDA clearance for culturing sterile body fluids.

- System that accommodates all kinds of samples for TB culture both respiratory & non respiratory (Sample should include urine, blood sputum with blood).
- System working on the reliable colorimetric principle of detection based on CO₂ sensor to indicate growth of organisms.
- Bottles used for blood & sterile fluids should have the antimicrobial neutralization capacity.
- Every cell has its own optics and detection device.
- System has LIS compatibility, inbuilt calibration check, touch screen monitor.
- System be capable of exporting data to the data management system for long term storage & should have the facility to analyze diluted specimens with the routine bottles.
- Preferably system may also capable of supporting growth of yeast & other fastidious organisms.
- System must have a modular design, capable of increasing the capacity in future.
- System has the FDA / other authorized certification clearance for microbial quality control testing.
- Capacity – 120 bottles.
- System includes data management system & software to analyze and store the data.
- Plastic bottles.

6. REAL TIME PCR SYSTEM

S6

- | | | |
|--------------------------|---|--|
| • Thermal cycling system | : | Peltier – based system |
| • Block format | : | 96 well block |
| • Compatible consumables | : | 96 well plates & tubes / strips |
| • Supported volume | : | wide range, 10 – 100 microlitre. |
| • Temperature range | : | 4 degree C-100 degree C. |
| • Optical system | : | Source : LED / Tungsten – Halogen.
Emission Filters.
Detection by photodiodes. |

- Calibrated dyes at installation : SYBR GREEN I, FAM, VIC, JOE, NED, TAMRA, ROX (minimum 5 dyes)
- Display : LCD / VGA
- Quantitative PCR run time : Fast mode / standard mode
- Electrical : Compatible in India
- Software : System software should include :
Applications for absolute quantitation,
Relative quantitation
Allelic discrimination
Plus / minus assays
- Instrument control : with or without PC. May be controlled through LAN also.
- Sensitivity : Performance should be demonstrated preferably detecting a single starting copy
- Precision : with appropriate instrument verification plate, the system should distinguish template copies with 99.7% confidence.
- Data transfer capability : data transfer capability using USB drive port
- Availability of validated assays : Should be able to supply ready made:
 1. Taqman assays or custom design assays for gene expression & SNP genotyping.
 2. Real time PCR systems should provide flexible dye detection that are optimized for taqman probe – based & SYBR green I based dye assay.
- Computer : Should supply a branded PC Pentium I V or higher version with windows XP or higher operating system with necessary configuration to perform all applications.
- PCR license : Should have a validated license for PCR.
- These are the basic requirements for Real time PCR.
- Any additional features may be assessed from the quotations given by the manufacturers.
- The supplier should be able to give hands on training for a minimum of 2 persons preferably at the site of installation.
- The supplier should be able to give support till such time the user gets familiarized with the equipment.
- Should provide adequate warranty.

7. KYMOGRAPHY ELECTRIC INDEPENDENT UNIT WITH ORGAN BATCH S7

- Student kymograph with cylinder
- 30 x 15cm.
- Dales monobath – organ bath
- Stirrer thermostatic control.

8. WEIGHING MACHINE FOR ORGANS – ELECTRIC S8

- To weigh a maximum of 15 kg with accuracy of 2 grams.
- Rechargeable battery back up.
- Digital display.
- Complete stainless steel platform for easy cleaning and anti staining.
- SS 304 grade construction.
- Platform size should be atleast 35 x 35cm.

9. ULTRA SOUND MACHINE S9

(a) **Equipment** : 2 D B/W Ultrasound.

(b) **Body** :

- Compact and ergonomically designed.
- Easily operable, user friendly.
- Rotating Control Panel.
- Tilting & swiveling possible.
- Articulating monitor Arm.
- Front and Rear Handles.
- Freely mobile on 4 wheels.
- Internal wiring

(c) **Monitor** : Minimum 17 inch digital, flat screen.

LCD Color monitor of reputed make.

- High Image quality
- High Frame Rate
- High resolution, high pixel value
- Speckle reduction filter

(d) **Imaging** :

- High resolution imaging
- Fastest frame rate

- Full spectrum Imaging
- Dynamic MR
- Special compound Imaging
- Dual live mode
- Quick scan

(e) **Image processing :**

- Gain / Dynamic range control
- Dynamic range 30-80 DB
- 2 D Filter
- Image depth 3 - 24 cms
- Digital scan converter
- B, B/M, B/B, M mode of display
- 256 gray scale shades
- Sample volume from 10 to 20 mm in increment of 1 mm
- Zoom possible in write, read and pan-zoom
- Cine memory, minimum 128 frames with function to store, review, scroll and search images.
- Post processing of images possible.

(f) **Measurements :**

- Full package general, OB/Gyn, muscular-skeletal, other superficial organ Measurements of distance, volume, trace, ellipse with Graphs.
- Real time auto calculation
- Post measurements
- Review and measure saved images

(g) **Transducers: 02 Probes**

- Multi frequency electronic convex transducer in range 3-12 MHz
- Linear, electronic, multi frequency probe of 5-12 MHz
- Built in DVD RW / DICOM SR
- USB / USB ports
- External HDD of 80 GB
- Image storing facility
- Printer port

- Clip cine store
- Post measurement
- Image post processing

10. DIODE LASER EQUIPMENT FOR HAIRREMOVAL PROCEDURES S10

- Light source : Diode (continuous, pulse wave)
- Pulse duration : 350ms
- Electrical requirement : 230 V – 50 Hz
- Spot size : 14 x 5.5mm
- Repetition / coverage rage : 1-10Hz/HR(10Hz), ST (1-10Hz)
- Wave length : 808nm
- Optical energy : up to 50 J /cm²
- Optical guide : sapphire crystal
- Cooling : 0 degree
- Weight : 30 kg.
-

11. ECT MACHINE PREFERABLY EEG MACHINE MONITORING S11

A compact ECT machine with build in two channel thermal printer, which monitors EEG & ECG of the patient prior to & during seizures.

Features:

- Parameter display on LCD
- Auto stimulus voltage
- Auto impedance check
- Output display in joules as well as in millicoulombs
- Truly portable.

ECT section:

- Pulse configuration : Bidirectional square wave
- Output current : 0.8 Ampere
- Frequency range : 20 to 90 Hz in 6 steps
- Pulse width. : 0.1 to 2 ms in 6 steps
- Mode : Auto & manual
- Stimulus duration
- In auto mode : 0.1 to 5.9 see in steps of 0.1 sec
- Minimum power : 2.7 joules for 220 ohm patient impedance
- Maximum power : 160 joules for 220 ohm patient impedance \
- Energy Display : Energy in joules gets calculated automatically by built in microcomputer.
- Charge : 12 to 1400 millicoulombs

Impedance check : Impedance of patient is displayed as Pass/
fail on LCD

EEG Section:

Sensitivity : 20 μ v/cm in 5 steps
Frequency response : 70 Hz with notch filter
CMRR : 80 db

ECG section:

Sensitivity : 0.5, 1, 2 μ v/cm
Frequency response : 70 Hz with notch filter
CMRR : 80 db

Recorder section :

Chart speed : 10, 30 mm /sec
Writing device : Thermal array printer
Recording paper : Thermal size 50mm x 30 metres.
Size : 325 x 250 x 80 (H) mm
Weight : 4.5kgs

Standard Accessories:

- Rubber strap electrodes : 1 No.
- Instruction Manual : 1 No.
- Dust cover : 1 No.
- Bite Block : 2 Nos.
- Fuses : 5 Nos.
- ECT Head band : 1 No.
- EEG Electrodes : 10 Nos.
- ECG Electrodes : 2 Nos.
- Recording paper : 2 rolls
- Earthing wire : 1 No.
- Conductive Gel : 1 No.
- Carry Bag : 1 No.

12. BUBBLE CPAP

S12

- Should be light weight, easily portable. Reliable and sturdy.
- Should be Digital Neonatal CPAP unit with bubbling bottle 0-10 cm of H₂O.
- Should have digital display of CPAP pressure in CPAP mode and continuous display of delivered pressure in IPPR mode.
- Should have following features:-
 - a. Alarms: CPAP High and Low alarms (Audio Visual)
 - b. AIR FLOW--- 0-15 LIT/MIN
 - c. OXYGEN FLOW - 0-15 LIT /MIN
 - d. Safety device against excess pressure
 - e. O₂ source: Inlet for Oxygen Gas

- f. Power: 230VAC 50Hz
 - g. Battery back up for at least 45-60 min.
 - h. Easy to clean fuse and sterilize.
 - i. Air-Oxygen blender with Fio2 concentration adjustable from 21% - 100% and accurate. Heated humidifier should automatically regulate the required temperature and should have a closed system for filling up water.
- 1 Heated Humidifier, breathing circuit, nasal prongs and 1 test lung to be provided.
 - Inbuilt air compressor should be provided.
 - Unit should be supplied with 1 extra humidifier, 2 extra breathing circuit, 5 nasal prongs of different sizes.
 - The disposable circuits should be easily available and reasonably priced.
 - The demonstration for working and technical specification is to be done at the hospital with all accessories.

13. PULMONARY FUNCTION TEST (SPIROMETRY, LUNG VOLUME AND DIFFUSION

CAPACITY)

S13

- Spirometry, Pre & Post bronchodilation, FVC, FEVI, PEFR etc.
- Slow VC, IC, ERV, etc.
- Maximum Voluntary ventilation, MVV, RR, etc.
- Lung Volumes Determination byN2 washout, RV, FRC, TLC, etc
- Diffusing capacity, single breath, DLCO, Va, D/Va, Etc
- PImax/PEmax
- Bronchial Provocation
- PEFR, PEFT 25, 50, 75, PEFR 25-75, SVC, FEV%, MMEF,PIF, ER, DRV, F

Features :

1. Pneumotach flow Sensor:

Type	:	Screen
Flow range	:	15 LPS
Accuracy	:	3%
Flow resistance	:	< 0.5 cm HZO/L/Sec

2. Oxygen Analyser:

Type	:	Paramagnetic /Fuel cell
------	---	-------------------------

Response	:	90 msec
Range	:	1-100%
Accuracy	:	< 1 %
Linearity	:	< 1%

3. Rapid Gas Analyser:

Type	:	Fast response non dispersive infrared
Range	:	CO 0-3000 ppm CH4 0-3000 ppm CO2 0-15%
Total response time	:	< 100 msec
Accuracy	:	1%
Linearity	:	<1%

4. Computer interface:

16 bit		
resolution	:	0.30 Mvolts

5. Auto flow Gas delivery system :

Type	:	Electro / magnetic
Gas source	:	DLCO mix or 100 % Oxygen

6. Computer with printer:

Pentium IV, 2.8 MHZ, 40 GB Hard disk , 256 MB RAM, 56 X CDROM, 15" LCD Colour monitor, Keyboard, Mouse. Laser Printer.

Soft ware:

1. HIPAA compliant windows based operating system.
2. Customized predicted value editor.
3. Customized narrative/Interpretation software.
4. SQL 2000 database for date management.
5. Comprehensive tutorials program.
6. Bronchial provocation, PIMAX/PEMAX.
7. 8 F/V loops on screen.
8. Blood gas data entry.
9. Selection of best inspiratory and expiratory graphs
10. Capable of reanalysis of DLCO graph even after rest is over.

Warranty:

The equipment and all accessories should be under the WARRANTY for a period of THREE years after successful commissioning.

1. Preferable additional facilities

- To measure metabolic rate
 - Upgradable to exercise tests
 - Bronchial provocation
2. All essential spare parts, PC boards and service manuals should be available with the local service manuals should be available with the local service center during WARRENTY period and all steps should be taken for immediate servicing to prevent the down time.
 3. The Annual Maintenance Contract rates for a period of 7 years after the Warranty period should be quoted separately.
 4. Annual Maintenance Contract should include preventive maintenance and breakdown calls. A copy of service manual should be available with local service centre.
 5. Supply of helium and other gases used for dlco has to be guaranteed for a minimum period of three years from the day of installation of the equipment.
 6. Installations, commissioning, Training, Testing, Maintenance and after sales Service:
 7. One staff/ research scholar should be provided training for 2 weeks in a Reputed Laboratory or training center.
 8. All electric connections, plug points, wiring etc should be provided free of cost.
 9. All spare parts and consumables should be available with the supplier or principals for the period of 10 years.
 10. Provision for uninterrupted Power supply should be provided.

14. ULTRASONOGRAPHY EQUIPMENT**S14**

(a) **Equipment** : Digital medical color Doppler

(b) **Body** :

- Compact and ergonomically designed.
- Easily operable, user friendly.
- Rotating Control Panel.

- Tilting & swiveling possible.
- Articulating monitor Arm.
- Front and Rear Handles.
- Freely mobile on 4 wheels.
- Internal wiring

(c) **Monitor** : Minimum 17 inch digital, flat screen.

LCD Color monitor of reputed make.

- High Image quality
- High Frame Rate
- High resolution, high pixel value
- Speckle reduction filter

(d) **Imaging** :

- High resolution imaging
- Fastest frame rate
- Full spectrum imaging
- Dynamic MR
- Special compound imaging
- Dual live mode
- Quick scan
- Tissue Doppler imaging
- Tissue harmonic imaging
- Quadrant imaging

(e) **Image processing** :

- Gain / Dynamic range control
- Dynamic range 30-80 DB
- 2 D Filter
- Image depth 3 - 24 cms
- Digital scan converter
- B, B/M, B/B, M mode of display
- 256 gray scale shades
- Sample volume from 10 to 20 mm in increment of 1 mm
- Zoom possible in write, read and pan-zoom

- Selectable view angle and view steering
- High sensitivity powerful Doppler performance
- Optimized parameters for 2 D Doppler
- Cine memory, minimum 128 frames with function to store, review, scroll and search images.
- Post processing of images possible.

(f) **Measurements :**

- Full package general, OB/Gyn, cardiac, cardiovascular, muscular-skeletal, other superficial organ Measurements of distance, volume, trace, ellipse with Graphs and ratios 3 D Doppler measurements.
- Real time auto calculation
- Post measurements
- Review and measure saved images

(g) **Transducers: 04 Probes**

- Multi frequency electronic convex transducer in range 3-12 MHz
- Electronic micro – convex cardiac probe
- Linear, electronic, multi frequency probe of 5-12 MHz
- Electronic TVS probe
- Built in DVD RW / DICOM SR
- USB / USB ports
- External HDD of 80 GB
- Image storing facility
- Printer port
- Clip cine store
- Post measurement
- Image post processing

15. TRANCERANIAL COLOUR DOPPLER

S15

Transcranial Doppler (TCD) is used to conduct a test that measures the velocity of blood flow through the brain's blood vessels. Used to help in the diagnosis of emboli, stenosis, vasospasm from a subarachnoid hemorrhage (bleeding from a ruptured aneurysm), and other problems, this is relatively quick and inexpensive test.

System complete with all accessories are required alongwith a trolley and printer.

The system should preferably be digital with M-Mode display.

The System should have at least:

- (i) 2 independent channels capable of any frequencies between 1 - 16/20 MHz
- (ii) 2 Probes simultaneous functioning.
- (iii) Electronically switching form PW/CW for 4 and 8 MHz Probes.
- (iv) Spectra and audio recording facility.
- (v) Remote to control all vital functions.

User configurable protocol for test sequences.

Software should offer at least the following:

- i) 2 Channel Micro Emboli Detection Program.
- ii) M- mode display in Color Spectrum
- iii) On line display of various parameters including Depth, Mean, SV, PI, RI, Power, etc.
- iv) Should have database with provisions of data sort facility.
- v) Should have provision to insert new data in the same patient database.
- vi) Report Generation facility.
- vii) Bi-lateral monitoring software with probe fixation on lightweight headband.
- viii) 4/8 view of spectra during monitoring.

System to include the following TCD Probes and accessories:

- i) 2 MHz TCD Probes suitable for monitoring (2Nos.)
- ii) 2 MHz Hand-Held probe for diagnostic use. (1No.)
- iii) 4 PW/CW probe(1 NO)
- iv) Light Weight Head Band for two monitoring probes.
- v) Stereo Head Phones (1No)
- vi) Conductive Gel. (24 Tubes of 200/250 ml)

System should be supplied with a PC with minimum

- i) Pentium IV or higher, 512MB RAM, 80 GB or better HDD,
- ii) 17" or higher with high resolution LCD TFT active matrix color display,
- iii) Windows XP Operating System
- iv) Network compatible.
- v) CD/DVD Writer Drive.

The system must be supplied on a sturdy trolley, color Laser printer and UPS

System as specified

The unit shall be capable of being stored continuously in ambient temperature of 0:-50deg C and relative humidity of 15-90%

The unit-shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%

Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility. or should comply with 89/366/EEC; EMC-directive.

Power input to be 220-240VAC, 50Hz fitted with Indian plug

Resettable overcurrent breaker shall be fitted for protection

Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications. (Input 160-260 V and output 220-240 V and 50 Hz)

Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.

Manufactures/Supplier should have ISO certificate to Quality Standard.

Should be FDA, CE UL or BIS approved product

Comprehensive training for lab staff and support services till familiarly with the system.

Electrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements (OR EQUIVALENT international/national standard)

User / technical / maintenance manuals to be supplied in English.

Certificate of calibration and inspection

List of important spare parts and accessories with their part number and costing.

Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist.

The job description of the hospital technician and company service engineer should be clearly spelt out.

Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point ,if not substantiated with authenticated catalogue/manual, will not be considered.

List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual. .

16. SEMI AUTO ANALYZER

S16

- Light source: Halogen lamp.I2V,20 W.

- Wavelength range: Should have minimum 6 interference filters with minimum two free positions for optional filters.
- Measurement procedures: Should perform Kinetic, end point, fixed tune and multi standard assay.
- Should have minimum 1000 sample results memory
- Should have inbuilt thermal printer
- Should have built in incubation block
- Aspirator system: Internal pump of bellows type. Measurement by aspiration and cuvette.
- Temperature, control: By peltier elements .Fixed temperature at 37degree centigrade. Should have external PS2 keyboard interface.
- Should have graphic touch screen display.
- Should have online graphical plot and display' of O.D online.
- Quality control level Jennings graph and westgards rules. QC survey of last thirty control measurements.
- Flow Cell: 18-25 microlitres volume.
- Should have RS232 interface for LIS facility;
- Should be supplied with suitable stabilizer/UPS .
- Detector: Photodiode.
- Delay time: Programmable 0-999sec.

17. FULLY AUTOMATED BIO CHEMISTRY ANALYZER

S17

Throughput	:	Up to 100 tests per hour Up to 150 tests per hour with ISE unit.
Reagent tray	:	for 15 reagent bottles Optionally cooled to approximately 10°C Three reagent facility for all tests Reagent 1 volume 110 - 400µl; Reagent 2 volume 0 - 180 µl Reagent 3 volume 0 - 180 µl;
Preheated reagent and sample		
Sample tray		- 25 positions for samples, controls and calibrators;
Needle		- with level detection and integrated mixer;
Reagent consumption		- 25 µl per test
Facility to use primary tubes or sample cups		
Sample volume		- 1 - 30 µl per test, programmable in steps of 0.1 µl

Sample dilution	- Programmable ratios 1:5, 1:10, 1:20,1:30, 1:40,1:50,1:100 with
Cuvettes	- Reusable hard material
Minimum measuring volume	- less than 250 µl
Measuring temperature 37°C,controlled by Peltier elements;	
Cuvette washing and drying.	
Optics	- Quarts-iodine lamp 12V-20W. Automatic wavelength selection by 8- position filterwheel

(SINGLE, DUAL AND TRIPLE REAGENT SYSTEM)

Kinetic measurement with linearity check;
Bichromatic end point measurement with or without bichromatic reagent blank and/or sample blank correction;
Two point measurement; Graphic plot of all measuring points;
Automatic rerun with sample reduction;
Non-linear calibration curves.

CALCULATION MODES

Prozone check for immunology tests;
Cut-off declaration.

QUALITY CONTROL

Up to 15 different controls
Levy-Jennings plots.

WATER CONSUMPTION

Less than one liter per hour.

STANDARDS

CE, CB and UL.

INTERNAL COMPUTER with latest operating system and windows ISE UNIT

Na, K and Cl measurement;
CO₂ measurement

ALONG WITH UPS and DEIONISER AND RO SYSTEM to supply water required for the machine

External computer with software and suitable printer to get automated print out bar coding system for sample collection and automatic entry into the system to be integrated to prevent errors

18. 2 D ECHOCARDIOGRAPH COLOUR DOPPLER SYSTEM

S18

- *System should be the state-of-art, high end, fully digital with broadband digital beam former.*
- System should have a minimum of 9000 digitally processed channels. Technical data sheet should be enclosed in technical bid to support the number of channels on the system

- 17" High resolution, flat monitor with infinite position.
- System should have frequency compounding facility. This technology should split the returning broadband signals into at least five individual sub-bands and process these signals Parallely and independently for uniform image quality. Any technology, which has separate processing of individual bands of returning frequencies for uniform image quality in cardiac imaging may also be offered. Processing technology in technical bid should be highlighted
- System should have the following application: Cardiac – Adult, Pediatric, TEE and Vascular
- System should have 2D, M-Mode, Colour M-Mode, Colour Flow, PW, CW, Steerable CW and directional Colour power angio facility
- System should be able to show real time 2D image and real time 2D image with colour flow simultaneously side by side for vascular studies.
- System should have a very high dynamic range of atleast 232db to pick up subtle echoes. Dynamic range in db should be clearly mentioned in the technical quote.
- The system should support broadband Phased and linear array transducer technologies. Frequency processing facility for the transducer should be 2 to 15 MHZ. This should be available without the need for frequency switching.
- Phased array transducers frequency range should be 2 to 12 MHZ.
- System should have 256 gray shades
- Independently selectable Gain control in both Axial and lateral Plane
- Triplex Imaging
- System should have an acquisition frame rate of atleast 700 frames/ second
- System should be new generation ergonomically designed.
- Keyboard platform rotatable and moveable (up/down)
- Cineloop review facility should be able to acquire and display upto 1000 frames of 2D and colour images for retrospective review and image selection which is very useful for pediatric and neonatal cases.
- Should have single button control for automatic optimization an adjustment if TGC and Receiver Gain to achieve optimal uniformity of image quality and faster scans.
- Enhanced Tissue harmonic Imaging should be standard on the system. This should be based on a real time digital signal storage and phase cancellation technique to

enhance axial and contrast resolution. However advanced Tissue harmonic imaging like Pulse Inversion Harmonics may also be offered.

- Linear Array Imaging with expanded Field of view on both side of linear image
- Transcranial Doppler, Tissue Doppler Imaging should be standard on the system
- 3 active Imaging transducer Ports with electronic switching
- PW/CW Doppler facility in all imaging Phased Array Sector transducers
- Stress Echo Package
- System should have automatic real-time Doppler tracing with automatic real-time display of Peak Velocity, Peak gradient.
- 5 to 12 MHZ broadband Phased array sector transducer for Pediatric and Neonatal imaging
- 3 to 12 MHZ broadband linear transducer for vascular application
- TEE Probe - 2-7 MHZ Omni Plane Broad band sector transducer for adult applications.
- System should have contrast imaging as option, should have low mechanical index (MI) and flash modes and start and stop timer.
- Stress echo package.
- System should be supplied with
 - a) Sony Thermal B/w Printer
 - b) Computer with Colour Printer
 - c) 2 KVA UPS

19. DEEP FREEZE (-80°C)

S19

- Microprocessor based fully solid stated digital temperature controller with feather torch panel.
- 3 ½ digital LED display
- Pt – 100 RTD sensor
- Electronic lock for temperature setting.
- Operating temperature range of 40⁰ C to 86⁰ C
- Power : 220/ 240V, 50 Hz, AC
- Audio – visual alarms for over temperature, power failure and door ajar with additional remote alarm contact.
- Calibration certificate traceable to national standard.

- Battery back up (UPS) for indicator alarm functions only.
- Electronic interlock between high slow stage time delay start to overload protector provide safety to the system.
- Auto control of internal pressure & temperature through HP/LP out cut off & OLP for both high and slow stage compressor.
- Line voltage corrector (voltage stabilizer) with high / low voltage cut off low voltage booster and time delay restart.
- Microprocessor based weekly chart / strip _ temperature recorder (pen type / inkless)

20. FIBEROPTIC LARYNGOSCOPE / INTUBATING

S20

- Flexible fibrotic laryngoscope – should be amount 600mm in length so as to mount ETT.
- Outré diameter should be 3.5mm with outer channel of 3mm.
- Range of bending of the tip should be 120deg. Up and 60 deg, down
- Compatible colour CCD camera.
- Leak test facility.
- Detachable fibroptic cable.
- Unique closed suction mechanism
- Automatic light adjustment
- Colour video monitor at least 1.2 or more mega pixel.
- Provision of still image capturing / digital recording of images
- Cold light source
- Trolley
- Battery powered cold light source, compatible with FFL.

21. C -ARM (IMAGE INTENSIFIER)

S21

A Mobile C-Arm Image Intensifier suitable for use in Operation Theatres for Surgical procedures. The Control Panel should be fully feather touch for easy cleaning and disinfections.

A) IMAGE INTENSIFIER:

1. Image Intensifying Tube: 9 Inches, Triple Field.
2. CCD Camera: High Resolution Compact CCD Camera. B/W, Pixels 752 X 582.
3. Monitor (2 Nos): 17", Monitors along with a trolley.

B) C-ARM MOVEMENTS

1. Rotation: ± 180 Degrees.
2. Motorized Up/Down: 430 mm
3. Horizontal Travel: 200 mm
4. Arc Orbital Movement: 120 Degrees.
5. Wig Wag: ± 12.5 Degrees.

C) X-RAY GENERATOR

High Frequency with Max. output power 5.0 KW or more and Rotating Anode X-Ray Tube of focal spot 0.3mm (small) & 0.6mm (Large) to be provided.

D) CONTROL: Control should have the following:

1. LCD display of kV & mA range.
2. Technic Selector switch for Fluoro & Rad. Mode Selection.
3. KV Selection from 40 to 120 KV in steps.
4. An inbuilt Radiographic Timer to select mAs in steps for more than 200mAs.
5. A 5 minutes cumulative Timer with Buzzer.
6. Fluoro mA from 0.1-4 mA, continuously variable.
7. Indicators for left/right, up/down Image Rotation should be provided on Control Panel.
- 8 Thermal Safety cut off
9. The unit should be operable on Single Phase 230 V $\pm 10\%$ AC, 50 Hz
10. Automatic Brightness Stabilizer should be provided.
11. Provision must exist on Control Panel for easy identification of faults, to minimize the downtime.
12. Iris Collimator should be provided.
13. Emergency fluoroscopy must be provided.
14. Provision must exist on Control Panel for easy identification of faults, to minimize the downtime.
- 15 Anatomical Program should be provided in radiography mode

E) DIGITAL IMAGE MEMORY SYSTEMS should include the following::100 Frame memory

1. Feature of LIVE / PULSE / LIH
2. Averaging 1 to 16 frame
3. Contrast enhancement function
4. Temp. & Permanent storage up to 100 frame

5. Negative image feature .
6. Zoom feature (x2 & x3)
7. Mirror feature
8. Image rotation feature
9. pAN drive provision
10. Keeps date & time
11. PC connectivity through LAN port

F) OTHER REQUIREMENTS:.

Equipment should be CE Certified .. The company should be ISO 13485 certified.

The unit should be approved by AERB.

The company should have proven trade record in govt. sector.

22. CRANIOTOME WITH N2O CYLINDER

S22

- Must have motor driven by electronic communication technology i.e.brushless design.
- Must have high speed motor for craniotome and micro drill and dedicated low. speed/high torque motor for skull perforation and raw attachments.
- Must have the motors made of Titanium alloy.
- Must have definable start and stop characteristic of motor.
- Must have high power motor-150 watt power and 8000 rpm speed.
- Must have low power motor-150watt power and 3000 rpm speed.
- Must have dual motor usage.
- Must have handpieces, Sagittal saw, micro sagittal saw, and skin abrader handpieces.
- Must have integrated irrigation to cool the burrs and blades.
- All must be autoclavable cutting tools
- Must have handpieces should be compatible for high speed electronic motor as well as pneumatic motor.
- Must have automatic drill bit loading.
- Must have detachable motor cable and one motor cable for all motors.
- Must have irrigation unit to provide facility for pulsed irrigation. .
- Must have all burrs and handpieces are recognizable by coding system.
- Must have speed limit selection by both panel of control and foot pedal.
- Must have auto sensing of motor and auto selection of speed.

- Must have safety clutch de ling mechanism.
- Must have lightest and thinnest handpiece.
- Must have post operating oil spray.
- Must have audible alarm.
- Must have micro drill handpieces.
- Must have long curved telescoping handpiece.
- Must have instantaneous break.
- Must have complete upgradability

Motor :

Highspeed H 150 - 1 No.

Low speed - 1 No.

Craniotome hand piece set - 1 No.

Craniotome dura guard - 1 No.

Control unit with irrigation - 1 No.

Craniotome dural blade - 10 nos.

Cutting burs/ diamond burs (each 2 pieces from respective size)

Short hand piece : 6mm cutting - 2 pieces

4.5m cutting - 2 pieces

3.1mm cutting - 2 pieces

4.5mm diamond

Long angled hand piece : 4.5mm

3.1mm

2.3mm

3.1mm diamond cutting

} cutting 2 piece each

Saw specification : reciprocating saw to operate 18,000 rpm - 1 No.

Bone grafting sagittal saw - to operate at 18,000 rpm - 1 no.

Wire drill bits 2mm - 2 nos.

Oil can - 6 Nos.

23. ARGON LASER

S23

- Type : diode laser
- Wavelength : 808mm (type)
- Output power : 50-200 MW (Endo delivery)
50-1500 MW (other delivery)
- Output type : continuous wave.
- Exposure time : 0.02 to 5.00 sec (Multi purpose delivery)
- Automatic repeat : 0.1 - 1.0 sec
- Aiming laser : red diode 633 mm (type)
Maximum 0.4 to 0.6 mw
- Power supply : 90-264 vac, 50/60 hz 200 VA
- Dimensions / ward length : 220(w) x 297.7(d) x 100 (H) ,, /6 kg
8.6(w) x 11.7(d) x 4 II 1/13.2 1 bs

- Delivery / spot size : Endopjoto coagulation delivery / 400 m
Bio delivery / 180, 230, 450nm.
Transcleral cyclophoto coagulation
Delivery / 400mm
Slit lamp delivery (Nidek-tlagg sterit 80-800 mm, 75-990mm.
Multipurpose delivery 10mm -300mm.

24. STROBOSCOPY

S24

- 2^o 10mm endoscopy
- Pnsuilt strobe light
- High definition 3 chip camera.
- Flexible naso pharyngoscope
- Audio video recording device with microphone.
- Computer system configuration with printer.
- Voice analyzer (EEVOS) soft ware
- Patient data management software.

25. (A) SIDE VIEW SCOPE

S25A

- Field of view should be minimum 100 degree and above
- Depth of field should be from 5mm to 60mm or less
- Direction of view should be 5 degree backward side viewing oblique, for ease during therapeutic procedures.
- Insertion tube diameter should be less than 12.8mm
- Instrument channel diameter should be 4.2mm and above
- Working length should be 1200mm and above
- Angulation movement minimum of up 120 degree down 90 degree right 110 degree and left 90 degree
- Scope should have minimum of three remote switches to adjust processor function

Video processor and light source:

- Video signal output should have RGB, Y/C, BNC, XGA simultaneous output
- The desktop computer monitor
- Should have provision for IEEE digital output.
- Edge enhancement should be possible even after freezing the image.
- Should have the provision for enhancement facility of video scope image spectrum
- Should display natural muscosal color tone
- Should have provision for zoom adjustment
- Display should have provision for various image sizes
- Patient data documentation should be possible
- Illumination 150 watts halogen bulb with emergency lamp provision

- Should have provision for air pump
- Should operate in power supply 200-240 volts AC 50Hz.
- Keyboard should be available for the data inputs.

Monitor:

- Should be 21 inch LCD monitor
- Should have provision for accepting Y/C, BNC
- Power supply 200-240 volts AC 50 Hz

Accessories:

- Two biopsy forceps
- Cleaning brush
- Hardware and software for image capture
- Voltage stabilizer
- Leakage tester
- Endoscopy trolley.

Special feature:

- Warranty for 3 years

(B) ECG MACHINE

S25B

- Portable
- 12 lead ECG
- Reporting system
- Monitoring system for artifacts
- Battery back up 1 hour
- Rhythm strip – atleast 3-6 leads
- Speed 25mm
- Amplitude adjusted

(C) VENTILATOR

S25C

- It should be a single, versatile source of invasive and non invasive ventilation for the ICU, emergency and recovery rooms, and intra facility transport.
- It should have integrated turbine and hot-swappable batteries for maximum mobility.
- It should have ventilation modes - (s)CMV +, SIMV +, PCV + (bighasic), P-SIMV +, . SPONT and also special modes like NIV, ASV.
- It should have manual breath, inspiratory hold, pneumatic nebulizer, 100% , stand-by, sigh, bidirectional apnea backup, leak compensation, leak setup, screen lock
- It should have
 - SIMV + rate - 1-b/min
 - Oxygen - 21- 100%

- I:E ratio - 1:9-4:1 (I:E, TE and TI are always visible)
- Inspiratory time - 0.1 - 9.6 s (SIMV +)
- Pressure control - 5 -60cmH20 above PEEP/ CPAP
- Pressure support - 0 - 60 CmH20 above PEEP/CPAP
- Trigger (Flow) - off, 1 - 10 l/min
- ETS - 5 - 70% of inspiratory peak flow
- Tidal volume - 20 - 1500ml
- PEEP/CPAP - 0 - 35 cmH20
- Pramp - 50 - 200ms
- %minute volume (ASV) - 25 - 350%
- Pasvlimit - 5 - 60 cmH20
- Apnea time - 15 - 60 s .
- Automatic flow for 240l/min maximum .
- It should have ventilation cockpit for
 - Dynamic lung - Real - time visualization of the lungs with representations of tidal volume, lung compliance, resistance and patient activity .
 - Volume -spontaneous and total expiratory minute volume, VTE, leak in %
 - Flow - inspiratory peak flow, expiratory peak flow I:E ratio, TI, TE total and spontaneous frequency
 - Vent status - visual representation of ventilator dependency, grouped into oxygenation, CO2, elimination and patient activity
 - Pressure – PEEP/ CPAP, Ppeak, pinsp, pmean
 - Others resistance, compliance, Auto PEEP, trigger, Oz. RCexp
 - ASV graphics - ventilation, tidal volume and rate
 - Real time curves - volume, flow, pressure
- It should have alarms for
 - Low/high exp MinVol- OFF/O.1- 50 l/min
 - Low /highf otal - 0.99 b/ min
 - 02% ± 5% of setting, 18% minimum, 103% maximum
 - Pmax - 15 - 70 CmH20
 - Apnea - 15 - 60s

- Other - Disconnection, pressure limitation, flow sensor, gas supply, electrical supply, battery low, exhalation obstructed, user messages, technical alarms
- Events log - storage and display of up to 1000 events with time stamp
- It should have electrical gas supplies for
 - Input voltage - 12-24Vdc, 100 - 240 V-, 50/60 Hz
 - Low pressure O₂ - < 15 l/ min, maximum 600 kpa
- It should have physical dimensions for
 - Standards - IEC / EN 60601 - 1 IEC/EN 60601-1-2 IEC/CEN 60601-2-12
 - COM interfaces - RS - 232, USB
- Should have proximal flow sensor (reusable).
- Should have 3 years warranty

26. MOBILE C-ARM X-RAY IMAGE INTENSIFIER

S26

A Mobile C-Arm Image Intensifier suitable for use in Operation Theatres for Surgical procedures. The Control Panel should be fully feather touch for easy cleaning and disinfections.

A) IMAGE INTENSIFIER:

1. Image Intensifying Tube: 9 Inches, Triple Field.
2. CCD Camera: High Resolution Compact CCD Camera. B/W, Pixels 752 X 582.
3. Monitor (2 Nos): 17", Monitors along with a trolley.

B) C-ARM MOVEMENTS

1. Rotation: ± 180 Degrees.
2. Motorized Up/Down: 430 mm
3. Horizontal Travel: 200 mm
4. Arc Orbital Movement: 120 Degrees.
5. Wig Wag: ± 12.5 Degrees.

C) X-RAY GENERATOR

High Frequency with Max. output power 5.0 KW or more and Rotating Anode X-Ray Tube of focal spot 0.3mm (small) & 0.6mm (Large) to be provided.

D) CONTROL: Control should have the following:

1. LCD display of kV & mA range.
2. Technic Selector switch for Fluoro & Rad. Mode Selection.
3. KV Selection from 40 to 120 KV in steps.

4. An inbuilt Radiographic Timer to select mAs in steps for more than 200mAs.
5. A 5 minutes cumulative Timer with Buzzer.
6. Fluoro mA from 0.1-4 mA, continuously variable.
7. Indicators for left/right, up/down Image Rotation should be provided on Control Panel.
- 8 Thermal Safety cut off
9. The unit should be operable on Single Phase 230 V \pm 10% AC, 50 Hz
10. Automatic Brightness Stabilizer should be provided.
11. Provision must exist on Control Panel for easy identification of faults, to minimize the downtime.
12. Iris Collimator should be provided.
13. Emergency fluoroscopy must be provided.
14. Provision must exist on Control Panel for easy identification of faults, to minimize the downtime.
- 15 Anatomical Program should be provided in radiography mode

E) DIGITAL IMAGE MEMORY SYSTEMS with pulsed fluoroscopy should include the following::100 Frame memory

- 2 monitors system for LIH, LIVE and stored images.
- Permanent image storage capacity of Approx, 10,000 images.
- 50 temporary image storage for quick review
- CD writer to store images on CD for giving it to patients.
- Flicker free images on a flat screen.
- 32 Bit image storage for excellent resolution.
- Image sharpening (Real – time or stored images).
- Image rotation.
- Image EMBOSS for three – dimensional relief presentation.
- Colorized images.
- Dynamic contrast (Gray level stretch)
- Negative images (gray level invert).
- Frames averaging for smoothing of images (real time) 256 frames.
- 32 bit at 800 x 600 resolutions
- Digital subtraction of images.
- QUAD view (4 images on monitor)

- Cine loop of 500 frames (Multiple cine loops can be stored permanently).
- Variably frame rate of 2,5,10,15,& 27 frames per second for cine loop.
- Image orientation : left /right – top / bottom.
- Patient’s name, operator name, hospital name, date & time display on monitor.
- Images can be stored in folders of individual patient’s name.
- Quick exploration of stored images.
- On screen help mode.
- On screen measurements – length (X & Y)& area
- Area of interest marker.
- Contrast enhancement of area of interest.
- Facility for image printing.
- Text annotations and provisions of removal of all text from the images.
- Automatic capture and storage of cine loop with cine foot switch.
- Offset and gain adjustments for improved image quality.
- Thumb nail use of complete study.
- Frame by frame review.
- Printing options in different formats (frames of different loops can be printed on the same sheet, 1x1, 1x2, 1x4, 1x8 formats)
- Frame rate selection
- DICOM compatible.

F) Table : C arm compatible table with radiolucent table top for urology application

G) OTHER REQUIREMENTS:.

Equipment should be CE Certified .. The company should be ISO 13485 certified.

The unit should be approved by AERB.

The company should have proven trade record in govt. sector.

27. (A) HEART LUNG MACHINE

S27A

1. Four or Five Pump Modular Perfusion System Operating on 220V 50Hz A.C
2. Each Individual Roller Pump Should be Capable of running independently on 220V / 50Hz A.C
3. Should have spill proof base
4. Should have easy access connectors for interchanging the pumps

5. Should be provided with safety monitor for air bubble and oxygenator blood level detection. Should be able to provide both alert and alarm for audible and visual alarms or low blood level alarm
6. Safety monitor should have optional capability for Computer interface to retrieve perfusion data
7. Should be provided with arterial monitor for measuring arterial line pressure, three temperatures and two timers.
8. Should have a Cardioplegia monitor with two pressures, Three temperatures, two timers. Current and total volume of each infusion should be displayed along with delivery time
9. Roller pump should have a self diagnostic circuit with provision to detect and display the following alarm conditions:-
 - a) Over speed
 - b) Pump jam
 - c) Belt slip
 - d) Over occlusion
 - e) Pump drive system with double V-grooved belt system
 - f) Provision of feeding the flow constant for using the tubing of unknown L.D
 - g) Flow rate display should be calculated on the basis of pump shaft speed
10. Should have unidirectional hand crank facility as a critical safety feature. Hand crank loading should be from top for faster access.
11. Should have a battery back up to provide power to minimum two pumps and all safety monitors & Accessories.
12. Should have flexible lamp to monitor the level of blood in oxygenator reservoir.
13. Should have a ultrasonic air sensor as a optional accessory
14. Should have a air oxygen blender with hoses
15. Should be CE/FDA/ ISI Certified.

2) HYPER HYPOTHERMIA MACHINE

S27B

1. Should be capable of providing hot and cold water for heat exchanger.
2. Micro processor controlled with water temperature selection from 3 degree – 42 degree C, in one degree increment.

3. Should have a separate port for supplying water to the blankets.
4. Heat exchange supply port should have a supply of 15.0 L / Min for fast cooling & heating.
5. The hot water circulating system should have a reservoir capacity of 5.7 liters and cold system reservoir capacity should be 7.6 Lit.
6. The system should operate on 220V / 50Hz single phase supply.
7. Should have separate ports for draining water from cold and hot tanks.
8. Should be CE/FDA/ ISI Certified.

28. BINOCULAR MICROSCOPE WITH MONITOR REQUISITE SOFTWARE WITH CAMERA **S28**

a) Binocular microscope with attachment for camera (trinocular)

- Quadruple nose piece, mechanical stage right handle with refocusing mechanism and halogen lamp (6V 30 W)
- Vinyl cover.
- Trinocular eye piece tube (100/00/100)
- Eye piece CF I E 10X
- Anti mould
- E2 abble condenser with objective position guide markin N.A.1
- CFIE Plan Achromat 4 x N.A.0.10 (F.O.V.20)
- CFIE Plan Achromat 10 x N.A.0.25 (F.O.V.20)
- CFIE Plan Achromat 40 x N.A.0.65 (F.O.V.20) spring load
- CFIE Plan Achromat 100 x OIL, N.A.0.1.25 (F.O.V.20)
- Oil immersion, spring loaded.
- C, mount TV adaptor A
- Halogen lamp 6 V – 30 W (1 Pc) with spares.

b) Camera

Digital camera head DS – Fil
 5.0 Megapixel colour CCD, 2 / 3 inch chip
 Frame rate of 12 frames per second
 USB port
 Free software

c) Monitor

PIV 2.1 GHZ / 2 GB DDR RAM, 250 GB HDD, DVD RW
 Microsoft key plus mouse, 15” color monitor
 Apc ups 500 AVR.

29. PORTABLE ULTRASOUND SCANNER **S29**

- Portable Cardiac Color Doppler System not weighing more than 10 Kg with carrying handle having True Digital Platform and should have the following features:
- Operating consoles : Digital Beamformer, System Dynamic Range up to 210 dB, Unlimited Presets for every probe and application
- Operating system : should provide both OS of windows and Unix

- Monitor : minimum 15" high resolution Flat LCD monitor fully foldable with contrast digital adjustment
- Probe connector : Minimum 2. Active Electronic Probe connectors fully integrated into the machine to connect any Imaging Probes and one dedicated port for Blind CW Doppler
- Frame rate : 200 Hz/sec
- B-Mode / M-mode : 2D, Duai 20 , Simultaneous 20 Orientation Left/Right, Up/Down , Variable Sector Angle M-Mode - Split and Full, variable Sweep time - 2-16sec (step-1sec)
- Doppler – PW : PW Doppler with PRF range 2.6 to 33.3 KHz. Variable Sweep time -2-16 sec (step-1sec), Sample size 1-24mm. Angle correction +/- 75 Deg
- Doppler – PW : PW Doppler with PRF range 2.6 to 33.3 KHz. Variable sweep time -2-16 sec (step – 1 sec), sample size -24mm, angle correction +/-75 deg.
- Doppler – steerable CW : CW Doppler. Variable Sweep time -2-16 sec (step1 sec), Maximum Measureable Velocity +/- 6.3 m/s
- Colour Doppler : Color Doppler with frequency 2.0 – 8.0 MHz selectable, up to 16 colour maps with velocity & variance maps directional power Doppler.
- Cine loop : 10,000 Frames variable speed cine loop, Still Images and 20 Clips should be stored into internal hard disk
- Tissue harmonic imaging : 2nd Harmonics with Minimum 3 selectable Frequency preset for Resolution, General and Penetration
- Speckle Reduction Software: To Reduce Speckle noises in the 2D and improve the quality of 2D. Should have selectable options and user programmable preset
- Tissue Doppler imaging : Tissue Velocity mapping for Quantitative evaluation of Heart Wall motion and should provide Colour TOI and PWTDI
- Stress Echo : Should Provide Stress Echo software for Evaluation of Cardiac Walls with Treadmill and Drug induced protocols
- Anatomical M-mode : Should provide Free Angular M-Mode with 2 Independent lines
- Upgrades : System should have Upgrade facility to 2Dbased Strain rate imaging, Adult Tran esophageal Probe (TEE) Pediatric Trans esophageal Probe (TEE)

- Probes to be supplied : 1. Adult cardiac phased array probe
Bandwidth frequency of (1-4) MHz with ,
PW/HPRF/CW and colour flow mapping
B-Mode Frequency - (2.0, 2.5, 3.5) MHz

2- Pediatric Cardiac Phased array Probe with
bandwidth Frequency of (3-8) MHz with
PW/HPR/CW and Colour Flow Mapping
B-Mode Frequency of (4.0, 5.0, 7.5) Mhz.
- Contrast harmonic imaging: Real Time CONTRAST HARMONIC Imaging
with second generation contrast agents along
with the Wash-in and Wash-out Curve
Monitoring the Passage Of the contrast media
and other features.
- User interface / key board: Fully alpha numeric keyboard, ergonomic hard
key layout with back light, primary controls
readily accessible and logically grouped,
programmable keys, track ball with 2 keys – PC
mouse logic. Integrated two Hi-Fi speakers
- Applications : Adult & pediatric and neonatal cardiac and
vascular
- Dicom/archiving : Internal Hard Disk Drive of Minimum 120 GB,
CD/RW drive for recording of exams on
standard CD-R and DVD/CD-RW media,
Automatic Storage of Still mages and Loops in
DICOM 3.0 formats.
- Connectivity : Direct Connection to USB Devices and PC
Printer RJ45 Port for Direct Network
Connection, WIFI & Bluetooth Capability,
DICOM ready
- Documentation : direct printout using dry laser printer
- Trolley : originally imported trolley
- Safety / certified : Aium /NEMA UD-2/UD-3,- FDA (USA)
- Power supply : 200-230 V.

30. C- ARM IMAGE INTENSIFIER

S30

A Mobile C-Arm Image Intensifier suitable for use in Operation Theatres for Surgical procedures. The Control Panel should be fully feather touch for easy cleaning and disinfections.

A) IMAGE INTENSIFIER:

1. Image Intensifying Tube: 9 Inches, Triple Field.
2. CCD Camera: High Resolution Compact CCD Camera. B/W, Pixels 752 X 582.
3. Monitor (2 Nos): 17", Monitors along with a trolley.

B) C-ARM MOVEMENTS

1. Rotation: ± 180 Degrees.
2. Motorized Up/Down: 430 mm
3. Horizontal Travel: 200 mm

4. Arc Orbital Movement: 120 Degrees.
5. Wig Wag: ± 12.5 Degrees.

C) X-RAY GENERATOR

High Frequency with Max. output power 5.0 KW or more and Rotating Anode X-Ray Tube of focal spot 0.3mm (small) & 0.6mm (Large) to be provided.

D) CONTROL: Control should have the following:

1. LCD display of kV & mA range.
2. Technic Selector switch for Fluoro & Rad. Mode Selection.
3. KV Selection from 40 to 120 KV in steps.
4. An inbuilt Radiographic Timer to select mAs in steps for more than 200mAs.
5. A 5 minutes cumulative Timer with Buzzer.
6. Fluoro mA from 0.1-4 mA, continuously variable.
7. Indicators for left/right, up/down Image Rotation should be provided on Control Panel.
- 8 Thermal Safety cut off
9. The unit should be operable on Single Phase 230 V $\pm 10\%$ AC, 50 Hz
10. Automatic Brightness Stabilizer should be provided.
11. Provision must exist on Control Panel for easy identification of faults, to minimize the downtime.
12. Iris Collimator should be provided.
13. Emergency fluoroscopy must be provided.
14. Provision must exist on Control Panel for easy identification of faults, to minimize the downtime.
- 15 Anatomical Program should be provided in radiography mode

E) DIGITAL IMAGE MEMORY SYSTEMS should include the following::100 Frame memory

1. Feature of LIVE / PULSE / LIH
2. Averaging 1 to 16 frame
3. Contrast enhancement function
4. Temp. & Permanent storage up to 100 frame
5. Negative image feature .
6. Zoom feature (x2 & x3)
7. Mirror feature
8. Image rotation feature
9. pAN drive provision
10. Keeps date & time
11. PC connectivity through LAN port

F) OTHER REQUIREMENTS:.

Equipment should be CE Certified .. The company should be ISO 13485 certified. The unit should be approved by AERB.

The company should have proven trade record in govt. sector.

31. BINOCULAR LIGHT MICROSCOPE WITH CAMERA AND VIDEO MONITOR S31

- Coaxial coarse / fine knobs : tension adjustment on the right side fine focus knob graduated stage movement (x y direction) on rack and pinion.
- Quadruple revolving nose piece (fixed) plane stage 120 x 132 mm
- With right hand mechanical stage
- Abbe condenser N.A.1.25 (oil immersion) , with aperature iris diaphragm
- Blue filter

- Universal power supply (100B to 240 V) for 6 V 20 W illuminator
- 8 cc immersion oil
- Dust cover
- Mirror unit (plano – concave)
- Power cord
- Lamp : 6 V 20 W halogen lamp
- Objectives : i NEA Acromat 4 X (anti fungus)
: i NEA Acromat 10 X (anti fungus)
: i NEA Acromat 40 X (anti fungus) spring
: i NEA Acromat 100X (anti fungus) spring, oil
- Eye piece : iCWHK 10 S (LB eye piece 10X), F.N.18mm, (anti fungus) (2x)

Attachments :

- Digital imaging compliance – adapter with digital camera
- Dark field central stop / CH2-DS
- Phase – contrast attachment / 10 X , 40X
- CCTV- attachment – optical C mount video adapter

SECTION VI-A : QUALIFICATION CRITERIA

(Referred to in Clause 11.2 of ITB)

After determining the lowest-evaluated bid, the Purchaser shall carry out the post qualification of the Bidder in accordance with ITB Clause 11.2, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications

“A) Manufacturer Bidders

The Bidder shall furnish documentary evidence that it meets the following requirement(s):

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

*(i) The bidder must have manufactured and supplied satisfactorily the similar model **quoted** in each schedule of the Schedule of Requirements to the extent of at least 2 Nos. in each schedule under “Section – V, Schedule of Requirements” in any one of the last five years **of which minimum 50% should have been supplied to Indian Institution** and should be in use satisfactorily with no adverse report for at least one year preceding the date of bid opening.*

(ii) The bidder should furnish the information on past supplies and satisfactory performance in the Performa given under Section-XI

(iii) Bidders shall invariably furnish documentary evidence (end users certificate) in support of the satisfactory operation of the goods as specified above.

(iv) The bidder shall furnish data to support that he has the financial and production capacity to perform the contract and complete the supplies within the stipulated delivery period.

(v) Further, bidder should be in continuous business of manufacturing / supplying and after sale services of products similar to that specified in the ‘Schedule of requirement’ during the last 5 years prior to bid opening.

(vi) The legal status, place of registration and principal place of business of the company or firm or partnership, etc.;

(viii) Details of experience and past performance of the bidder on equipment offered and on those of similar nature within the past five years and details of current contracts in hand and other commitments (suggested Performa given in Section XI).

(ix) *The Bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity and experience (both technical and commercial) for the manufacture and supply of the required equipment within the specified time of completion after the meeting all their current commitments.*

(x) *The bidder should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the purchaser or his representative for inspection.*

(xi) *Reports on financial standing of the bidder such as profit and loss statements, balance sheets and auditors report for the past three years, bankers certificate, etc.*

B) Non- Manufacturer Bidders

*In the case of a Bidder offering to supply Goods under the Contract that the Bidder does not manufacture or otherwise produce, **the Bidder should be duly authorized by the manufacturer of the Goods who meets the criteria under (A) above** (all supporting documents/information as asked above for manufacturer shall be submitted with the bid) and*

- *The manufacturer furnishes a legally enforceable authorization in the prescribed Form [Section XII] assuring full guarantee and warranty obligations as per GCC and SCC for the goods offered; and*
- b) *The bidder, as authorized by the manufacturers, has supplied and provided after sales service to the extent of at least 1 No. of **similar model** indicated against each schedule specified in the Schedule of Requirements in any one of the last three (3) years to **Indian Institution**, which must be in satisfactory operation at least for one year on the date of bid opening.*

Notwithstanding anything stated above, the purchaser reserves the right to assess the bidder's capabilities and capacity to execute the contract satisfactorily before deciding on award

Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or record of poor performance such as, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.

Note:

1) The above post qualification requirements are to be met by the bidder (in case of manufacturer bidders) and the bidder and the manufacturer respectively (in case of non manufacturer bidders)

and qualification of group/sister/parent companies will not be considered for meeting the above requirement.

2) For the purpose of furnishing documentary evidence to meet the post qualification criteria, the bidder should furnish the following:

- The supply made to public sector/Government units in India/private sector, the bidder should submit an affidavit confirming that the performance statement given is correct along with copy of purchase order, copy of invoices, proof of payment received from Purchasers, documentary evidence (end user certificate) in support of satisfactory completion of orders and function as stated above.”*

SECTION VII : BID FORM AND PRICE SCHEDULES

Bid Form

Date:.....200
Contract No.....

To:

Gentlemen,

Having examined the Bidding Documents including Addenda Nos....., the receipt of which is hereby duly acknowledged, we, the undersigned, offer to supply and deliver.....

(Description of Goods and Services) in conformity with the said Bidding Documents for the sum of..... (Total Bid amount in Words and Figures) or such other sums as may be ascertained in accordance with the Schedule of Prices attached herewith and made part of this bid.

We undertake, if our bid is accepted, to deliver the goods in accordance with the delivery schedule specified in the Schedule of Requirements.

If our bid is accepted we will obtain the guarantee of a bank in a sum equivalent to 5% of the Contract Price for the due performance of the Contract, in the form prescribed by the **Purchaser**.

We agree to abide by this bid for a period of(Number) days from the date fixed for bid opening under Clause 20 of the Instruction to Bidders and it shall remain binding upon us and may be accepted at any time before the expiration of that period.

Until a formal contract is prepared and executed, this bid, together with your written acceptance thereof and your notification of award, shall constitute a binding Contract between us.

We understand that you are not bound to accept the lowest or any bid you may receive.

Dated this..... day of 200..

Signature :
(in the Capacity of) :

Duly authorised to sign bid for and on behalf of
.....

PRICE SCHEDULE

1	2	3	4	5	5					6	7	8
					PRICE FOR EACH UNIT							
Sch No.	Item Description	Country of origin	Quantity & Unit (Nos.)	Ex-factory Ex-warehouse Ex-showroom off-the shelf	Excise duty, if any	Packing & forwarding	Inland transport, Insurance and Incidental costs incidental to delivery	Incidental services as listed in clause 7 of SCC	Customs duty	Unit price a+b+c+d+e+f	Total price per schedule for delivery at final destination (4 x 6)	Sales and other taxes payable if contract is awarded
				(a)	(b)	(c)	(d)	(e)	(f)			
1.	Embalming machine for cadavers as per specification		2									
2.	Computerized polyrite with CPU and monitor of animal studies as per specification		1									
3.	5 Parts hematology analyzer with auto leader as per specification		1									
4.	Fully automated multiparameter coagulation analyzer as per specification		1									
5.	Automated culture system (anaerobes fungal and TB) as per specification		1									
6.	Real time PCR System as per specification		1									

1	2	3	4	5	5					6	7	8
					PRICE FOR EACH UNIT							
Sch No.	Item Description	Country of origin	Quantity & Unit (Nos.)	Ex-factory Ex-warehouse Ex-showroom off-the shelf	Excise duty, if any	Packaging & forwarding	Inland transport, Insurance and Incidental costs incidental to delivery	Incidental services as listed in clause 7 of SCC	Customs duty	Unit price a+b+c+d+e+f	Total price per schedule for delivery at final destination (4 x 6)	Sales and other taxes payable if contract is awarded
				(a)	(b)	(c)	(d)	(e)	(f)			
7.	Kymography electric independent unit with organ batch as per specification		30									
8.	Weighing machine for organs – Electric as per specification		1									
9.	Ultra sound machine as per specification		1									
10.	Diode laser equipment for hairremoval procedures as per specification		1									
11.	ECT machine Preferably EEG machine monitoring as per specification		2									
12.	Bubble CPAP as per specification		1									
13.	Pulmonary function test (Spirometry, Lung volume and diffusion capacity) as per specification		1									
14.	Ultrasonography equipment as per specification		3									

1	2	3	4	5	5					6	7	8
					PRICE FOR EACH UNIT							
Sch No.	Item Description	Country of origin	Quantity & Unit (Nos.)	Ex-factory Ex-warehouse Ex-showroom off-the shelf	Excise duty, if any	Packaging & forwarding	Inland transport, Insurance and Incidental costs incidental to delivery	Incidental services as listed in clause 7 of SCC	Customs duty	Unit price a+b+c+d+e+f	Total price per schedule for delivery at final destination (4 x 6)	Sales and other taxes payable if contract is awarded
				(a)	(b)	(c)	(d)	(e)	(f)			
15.	Trancranial Colour Doppler as per specification		1									
16.	Semi auto analyzer as per specification		1									
17.	Fully automated bio chemistry analyzer as per specification		1									
18.	2 D Echocardiograph Colour Doppler System as per specification		1									
19.	Deep freeze (-80°C) as per specification		1									
20.	Fiberoptic laryngoscope / intubating as per specification		2									
21.	C –arm (image intensifier) as per specification		1									
22.	Craniotome with N2O cylinder as per specification		2									
23.	Argon laser as per specification		1									

1	2	3	4	5	5					6	7	8
					PRICE FOR EACH UNIT							
Sch No.	Item Description	Country of origin	Quantity & Unit (Nos.)	Ex-factory Ex-warehouse Ex-showroom off-the shelf	Excise duty, if any	Packing & forwarding	Inland transport, Insurance and Incidental costs incidental to delivery	Incidental services as listed in clause 7 of SCC	Customs duty	Unit price a+b+c+d+e+f	Total price per schedule for delivery at final destination (4 x 6)	Sales and other taxes payable if contract is awarded
				(a)	(b)	(c)	(d)	(e)	(f)			
24.	Stroboscopy as per specification		1									
25.	(a) Side view scope as per specification		1									
	(b) ECG machine as per specification		1									
	(c) Ventilator as per specification		1									
26.	Mobile C-arm X-ray image intensifier as per specification		1									
27.	(a) Heart lung machine as per specification		1									
	(b) Hypothermia machine (imported) as per specification		1									
28.	Binocular Microscope with Monitor Requisite software with camera as per specification		1									
29.	Portable ultrasound scanner as per specification		1									

1	2	3	4	5	5					6	7	8
					PRICE FOR EACH UNIT							
Sch No.	Item Description	Country of origin	Quantity & Unit (Nos.)	Ex-factory Ex-warehouse Ex-showroom off-the shelf	Excise duty, if any	Packaging & forwarding	Inland transport, Insurance and Incidental costs incidental to delivery	Incidental services as listed in clause 7 of SCC	Customs duty	Unit price a+b+c+d +e+f	Total price per schedule for delivery at final destination (4 x 6)	Sales and other taxes payable if contract is awarded
				(a)	(b)	(c)	(d)	(e)	(f)			
30.	C- arm image intensifier as per specification		1									
31.	Binocular light microscope with camera and video monitor as per specification		1									

Note: Optional item should be quoted separately

i. Unit price in (6) (Rs in words)

1. Embalming machine for cadavers as per specification.....
2. Computerized polyrite with CPU and monitor of animal studies as per specification.....
3. 5 Parts hematology analyzer with auto leader as per specification.....
4. Fully automated multiparameter coagulation analyzer as per specification.....
5. Automated culture system (anaerobes fungal and TB) as per specification.....
6. Real time PCR System as per specification.....
7. Kymography electric independent unit with organ batch as per specification.....
8. Weighing machine for organs – Electric as per specification.....
9. Ultra sound machine as per specification.....

- 10. Diode laser equipment for hairremoval procedures as per specification.....
- 11. ECT machine Preferably EEG machine monitoring as per specification.....
- 12. Bubble CPAP as per specification.....
- 13. Pulmonary function test (Spirometry, Lung volume and diffusion capacity) as per specification.....
- 14. Ultrasonography equipment as per specification.....
- 15. Trancranial Colour Doppler as per specification.....
- 16. Semi auto analyzer as per specification.....
- 17. Fully automated bio chemistry analyzer as per specification.....
- 18. 2 D Echocardiograph Colour Doppler System as per specification.....
- 19. Deep freeze (-80°C) as per specification.....
- 20. Fiberoptic laryngoscope / intubating as per specification.....
- 21. C –arm (image intensifier) as per specification.....
- 22. Craniotome with N2O cylinder as per specification.....
- 23. Argon laser as per specification.....
- 24. Stroboscopy as per specification.....
- 25. (a) Side view scope as per specification.....
 - (b) ECG machine as per specification.....
 - (c) Ventilator as per specification.....
- 26. Mobile C-arm X-ray image intensifier as per specification.....
- 27. (a) Heart lung machine as per specification.....
 - (b) Hypothermia machine (imported) as per specification.....
- 28. Binocular Microscope with Monitor Requisite software with camera as per specification.....
- 29. Portable ultrasound scanner as per specification.....

- 30.C- arm image intensifier as per specification.....
- 31.Binocular light microscope with camera and video monitor as per specification.....
- a) Annual Maintenance Charges (labour only) per year /per unit for 7 years after 3 years free warranty maintenance period**
- 1. Embalming machine for cadavers as per specification.....
- 2. Computerized polyrite with CPU and monitor of animal studies as per specification.....
- 3. 5 Parts hematology analyzer with auto leader as per specification.....
- 4. Fully automated multiparameter coagulation analyzer as per specification.....
- 5. Automated culture system (anaerobes fungal and TB) as per specification.....
- 6. Real time PCR System as per specification.....
- 7. Kymography electric independent unit with organ batch as per specification.....
- 8. Weighing machine for organs – Electric as per specification.....
- 9. Ultra sound machine as per specification.....
- 10.Diode laser equipment for hairremoval procedures as per specification.....
- 11.ECT machine Preferably EEG machine monitoring as per specification.....
- 12.Bubble CPAP as per specification.....
- 13.Pulmonary function test (Spirometry, Lung volume and diffusion capacity) as per specification.....
- 14.Ultrasonography equipment as per specification.....
- 15.Trancranial Colour Doppler as per specification.....
- 16.Semi auto analyzer as per specification.....
- 17.Fully automated bio chemistry analyzer as per specification.....
- 18.2 D Echocardiograph Colour Doppler System as per specification.....
- 19.Deep freeze (-80°C) as per specification.....

- 20. Fiberoptic laryngoscope / intubating as per specification.....
 - 21. C –arm (image intensifier) as per specification.....
 - 22. Craniotome with N2O cylinder as per specification.....
 - 23. Argon laser as per specification.....
 - 24. Stroboscopy as per specification.....
 - 25. (a) Side view scope as per specification.....
 - (b) ECG machine as per specification.....
 - (c) Ventilator as per specification.....
 - 26. Mobile C-arm X-ray image intensifier as per specification.....
 - 27. (a) Heart lung machine as per specification.....
 - (b) Hypothermia machine (imported) as per specification.....
 - 28. Binocular Microscope with Monitor Requisite software with camera as per specification.....
 - 29. Portable ultrasound scanner as per specification.....
 - 30. C- arm image intensifier as per specification.....
 - 31. Binocular light microscope with camera and video monitor as per specification.....
- b) Annual Maintenance Charges (Comprehensive) for 7 years / per year / per unit after free warranty maintenance period**
- 1. Embalming machine for cadavers as per specification.....
 - 2. Computerized polyrite with CPU and monitor of animal studies as per specification.....
 - 3. 5 Parts hematology analyzer with auto leader as per specification.....
 - 4. Fully automated multiparameter coagulation analyzer as per specification.....
 - 5. Automated culture system (anaerobes fungal and TB) as per specification.....
 - 6. Real time PCR System as per specification.....
 - 7. Kymography electric independent unit with organ batch as per specification.....

8. Weighing machine for organs – Electric as per specification.....
9. Ultra sound machine as per specification.....
10. Diode laser equipment for hairremoval procedures as per specification.....
11. ECT machine Preferably EEG machine monitoring as per specification.....
12. Bubble CPAP as per specification.....
13. Pulmonary function test (Spirometry, Lung volume and diffusion capacity) as per specification.....
14. Ultrasonography equipment as per specification.....
15. Transcranial Colour Doppler as per specification.....
16. Semi auto analyzer as per specification.....
17. Fully automated bio chemistry analyzer as per specification.....
18. 2 D Echocardiograph Colour Doppler System as per specification.....
19. Deep freeze (-80°C) as per specification.....
20. Fiberoptic laryngoscope / intubating as per specification.....
21. C –arm (image intensifier) as per specification.....
22. Craniotome with N2O cylinder as per specification.....
23. Argon laser as per specification.....
24. Stroboscopy as per specification.....
25. (a) Side view scope as per specification.....
 (b) ECG machine as per specification.....
 (c) Ventilator as per specification.....
26. Mobile C-arm X-ray image intensifier as per specification.....
27. (a) Heart lung machine as per specification.....
 (b) Hypothermia machine (imported) as per specification.....
28. Binocular Microscope with Monitor Requisite software with camera as per specification.....

- 29. Portable ultrasound scanner as per specification.....
- 30. C- arm image intensifier as per specification.....
- 31. Binocular light microscope with camera and video monitor as per specification.....

Note:

- (a) In case of discrepancy between unit price and total price, the unit price shall prevail.
- (b) **This price schedule should be placed in separate sealed cover “Cover B”**

Place : Signature of Bidder.....

Date : Name

Business Address

SECTION VIII : BID SECURITY FORM

SECTION VIII : BID SECURITY FORM

Whereas¹ (*hereinafter called "the Bidder"*) has submitted its bid dated (*date of submission of bid*) for the supply of (*name and/or description of the goods*) (*hereinafter called "the Bid"*).

KNOW ALL PEOPLE by these presents that WE (*name of bank*) of (*name of country*), having our registered office at (*address of bank*) (*hereinafter called "the Bank"*), are bound unto (*name of purchaser*) (*hereinafter called "the Purchaser"*) in the sum of _____ for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors, and assigns by these presents. Sealed with the Common Seal of the said Bank this _____ day of _____ 20 _____.

THE CONDITIONS of this obligation are :

1. If the Bidder
 - a) withdraws its Bid during the period of bid validity specified by the Bidder on the Bid Form; or
 - b) does not accept the correction of errors in accordance with the ITB; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of bid validity :
 - a) fails or refuses to execute the Contract Form if required; or
 - b) fails or refuses to furnish the performance security, in a accordance with the Instruction to Bidders;

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to and including forty five (45) days after the period of the bid validity, and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature of the Bank)

1 *Name of Bidder*

SECTION IX : CONTRACT FORM

SECTION IX: CONTRACT FORM

THIS AGREEMENT made the day of, 20..... between (Name and Address of **Purchaser**) represented by the Managing Director (hereinafter “the **Purchaser**”) of one part and(Name and Address of Supplier) (hereinafter “the Supplier”) represented by (Name of the Authorized Signatory and Designation), Aged years, residing at (Full Residential Address of the Signatory) of the other part:

WHEREAS the **Purchaser** is desirous that certain Goods and ancillary services should be provided by the Supplier, viz., (Brief Description of Goods and Services) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of (Contract Price in Words and Figures) (hereinafter “the Contract Price”).

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and constructed as part of this Agreement, viz.:
 - (a) the Bid Form and Price Schedule submitted by the Bidder;
 - (b) the Schedule of Requirements;
 - (c) the Technical Specifications;
 - (d) the General Conditions of Contract;
 - (e) the Special Conditions of Contract; and
 - (f) the **Purchaser’s** Notification of Award
3. In consideration of the payments to be made by the **Purchaser** to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the **Purchaser** to provide the Goods and Services and to remedy defects therein in conformity in all respects with the provisions of the Contract.
4. The **Purchaser** hereby covenants to pay the Supplier in consideration of the provision of the Goods and Services and the remedying of defects therein, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

BRIEF PARTICULARS OF THE GOODS AND SERVICES WHICH SHALL BE SUPPORTED / PROVIDED BY THE SUPPLIER ARE:

S.No.	Brief Description of goods	Quantity to be Supplied	Unit Price	Total Amount (3 x 4)	Sales Tax & other Taxes Payable
1	2	3	4	5	6

Total Value: 5 + 6

Delivery Schedule:

IN WITNESS whereof the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the
 said (For the **Purchaser**)
 in the presence of

Signed, Sealed and Delivered by the
 said(For the Supplier) (Signature, Name,
 Designation and
 Address with Office seal)
 in the presence of

- 1) (Signature, Name and Address of witness)
- 2) (Signature, Name and Address of witness)

SECTION X : PERFORMANCE SECURITY FORM

SECTION X: PERFORMANCE SECURITY FORM

To : _____ (Name of **Purchaser**)

WHEREAS (Name of the Supplier) herein called "the Supplier" has undertaken, in pursuance of Contract No..... dated, to supply (Description of Goods and Services) hereinafter called "the Contract".

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by a recognised bank for the sum specified therein as security for compliance with the Supplier's performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a Guarantee

THEREFORE WE hereby affirm that we are Guarantors and responsible to you, on behalf of the Supplier, upto a total of (Amount of the Guarantee in Words and Figures) and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limit of (Amount of Guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the day of 200.

Signature and Seal of Guarantors

.....

.....

.....

Date 20

Address

.....

.....

SECTION XI: PERFORMANCE STATEMENT

(Please see Clause 11.2(b)
(ii) of Instructions to Bidders)

SECTION XI

Proforma for Performance Statement (for a period of last five years)

Bid No.

Name of the Firm

Order placed by (Full Address of Purchaser) (1)	Order No. and Dated (2)	Description and Quantity of ordered equipment	Value of order	Date of Completion of delivery	Remarks indicating reasons for late delivery, if any	Has the equipment been satisfactorily functioning? (Attach a certificate from the Purchaser/Consignee)
				As per Actual Contract		

Signature and Seal of the Bidder

.....

SECTION XII

(Please see Clause 11.2(a) of Instructions to Bidders)

MANUFACTURER’S AUTHORISATION FORM

No..... dated

To

.....
.....
.....

Dear Sir,

IFB No. _____

We _____ who are established and reputable manufacturers of _____ having factories at _____ and _____ do hereby authorise M/s. _____ (Name and address of Representative) to submit a bid, and subsequently negotiate and sign the contract with you against the above IFB NO.

No company or firm or individual other than M/s. _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific IFB.

We hereby extend our full guarantee and warranty as per Clause 14 of the General Conditions of Contract for the goods offered for supply against this invitation for bid by the above firm.

Yours faithfully,

(Name)
for and on behalf of M/s. _____
(Name of manufacturers)

Note: This letter of authority should be on the letterhead of the manufacturing concern and should be signed by a person competent and having the power of attorney to bind the manufacturer.

SECTION XIII
AFFIDAVIT

(In Rs.10 NJ Stamp Paper)

- 1) I _____ S/o. _____ residing at No. _____ proprietor / partner / Managing Director of _____ (Proprietary concern / Partnership firm / Company) carrying on business at No. _____ do hereby solemnly affirm and sincerely state as follows:-
- 2) I state that our concern / company participated in the tender Ref.No. _____ for the supply of _____ with Tamilnadu Medical Services Corporation Ltd.,
- 3) Our concern / company had supplied _____ nos. of similar equipment for the hospitals detailed below and the same is considered by us to meet the post qualification criteria prescribed in the tender above.

Sl.no	Date of Invoice	Name and address of Hospital / Institution supplied	Date of Installation	Date of end user performance certificate

- 4) I satisfy that the equipment supplied to the above hospitals are working well and being maintained by us. The complaints received from the hospitals are attended to on time as per the Annual Maintenance Contract entered between us.
- 5) The performance certificate, invoice copy and payment proof are attached for the above supply

Solemnly affirm at
Chennai on this _____
Day 2010 and signed in
my presents

Signed before me

(Notary Public)