TAMILNADU MEDICAL SERVICES CORPORATION LIMITED
417 Pantheon Road, Egmore, Chennai - 8
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BID REFERENCE:003/TNMSC/ENGG/MSSH-OMAN/2012, Dt.25.04.2012

TENDER FOR SUPPLY AND INSTALLATION OF EQUIPMENTS TO DEPT. OF NEUROLOGY & NEURO SURGERY, AT MULTI SUPER SPECIALITY HOSPITAL AT OMANDURAR GOVERNMENT ESTATE, CHENNAI

LAST DATE OF RECEIPT OF TENDER: 15.05.2012 at 11.00 AM

NOT TRANSFERABLE

ABSTRACT

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TENDER FOR SUPPLY AND INSTALLATION OF EQUIPMENTS TO DEPT. OF NEUROLOGY & NEURO SURGERY, AT MULTI SUPER SPECIALITY HOSPITAL AT OMANDURAR GOVERNMENT ESTATE, CHENNAI

BID REFERENCE	:	003/TNMSC/ENGG/MSSH-OMAN/2012, DT.25.04.2012
DATE OF COMMENCEMENT OF SALE OF BIDDING DOCUMENT	:	27.04.2012
LAST DATE FOR SALE OF BIDDING DOCUMENT	:	14.05.2012
LAST DATE AND TIME FOR RECEIPT OF BIDS	:	15.05.2012, 11.00 AM
TIME AND DATE OF OPENING OF BIDS	:	15.05.2012, 12.00 Noon
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.

SECTION I : INVITATION FOR BIDS (IFB)

SECTION I : INVITATION FOR BIDS (IFB)

Sealed Tenders in duplicate will be received till **11.00 AM** on **15.05.2012** by the **Managing Director, Tamilnadu Medical Services Corp. Ltd., Chennai for Supply of Equipments to Dept. of Neurology & Neuro surgery at Multi Super Speciality Hospital at Omandurar Government Estate, Chennai.**

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.

2. 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**.

3. 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.5,725/- (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	:	27.04.2012
d)	Pre-bid meeting	:	03.05.2012 at 11.00 AM
e)	Last date for sale of Bidding Document	:	14.05.2012
f)	Last date and time for Receipt of bids	:	15.05.2012, 11.00 AM
g)	Time and date of Opening of Technical bids	:	15.05.2012, 12.00 Noon

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.

4. 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.

5. 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.

6. 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 and
k. Manufacturer's Authorisation 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:

α) 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 **03.05.2012 at 11.00 AM.**

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

χ) 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**.

δ) 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.

ε) 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 authorized (as per authorization 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. Deleted

b. A Banker's cheque, or demand draft obtained from 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. The bidder shall prepare the bid technical bid (Cover A) and the price bid (Cover B) and placed in separately sealed covers clearly marking "Technical bid" and "Price bid" as appropriate.

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 bidder shall seal the **"Technical bid"** and **"Price bid"** in separate inner envelopes only making the envelopes as "Technical bid" and Price bid". Further 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 envelopes in an outer envelope.

16.2 The inner envelopes 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 12.00 Noon on 15.05.2012.**

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 the Technical bids (Cover A) of all bids, in the presence of bidder's representatives who choose to attend, at **12.00 Noon on 15.05.2012** 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 subsequent to free guarantee maintenance period of 3 years.

(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.

i) Manufacturer Bidders :-

a. An undertaking for the uninterrupted supply of adequate spares for atleast a period of 10 years shall be furnished.

b. Availability/ establishment of after sales service facility atleast in 4 regions of Tamil Nadu to ensure uninterrupted after sales service during warranty and maintenance period shall be confirmed. The details of service facility available / proposed to be set up shall be furnished in their bid.

ii) Non-Manufacturer Bidder:-

a. The bidder shall furnish an undertaking for the uninterrupted supply of adequate spares for atleast a period of 10 years with the backup undertaking from their manufacturer.

b. Availability/ establishment of after sales service facility atleast in 4 regions of Tamil Nadu to ensure uninterrupted after sales service during warranty and maintenance period shall be confirmed. The details of service facility available / proposed to be set up shall be furnished in their 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 a comprehensive maintenance contract for a period of seven years after the expiry of free maintenance period of 3 years. Bidders should clearly indicates year wise comprehensive maintenance charges in the price schedule 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.

24.3 The bidders shall not make attempts to establish unsolicited and unauthorized contact with the Tender accepting authority, Tender Inviting Authority or Tender Scrutiny Committee after opening of the bids and prior to the notification of award and any attempt by any bidder to bring to bear extraneous pressures on the Tender Accepting Authority bidder shall be sufficient reason to disqualify the bidder.

24.4 Notwithstanding anything contained in clause 24.3 above pursuant to ITB clause 21, the Tender Inviting Authority or the Tender Accepting Authority, may seek bona fide clarifications from bidders relating to the bids submitted by them during the evaluation of bids.

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 10 days of receipt of notification of award, the successful bidder shall sign the contract agreement, for the supply and installation and also for the comprehensive AMC contract as applicable after the warranty period.

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.

32. Fraud and corruption

It is **purchaser'**s policy to require that the bidders, suppliers and contractors and their subcontractor observe the highest standard of ethics during the procurement and execution of such contracts.[1] In pursuance of this policy, the **purchasers;**

(a) defines, for the purposes of this provision, the terms set forth below as follows:

(i) **"corrupt practice"**[2] is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

(ii) **"fraudulent practice"**[3] is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to

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[1] *In this context, any action taken by a bidder, supplier, contractor, or a sub-contractor to influence the procurement process or contract execution for undue advantage is improper.*

[2] *"another party" refers to a public official acting in relation to the procurement process or contract execution]. In this context, "public official" includes staff and employees of other organizations taking or reviewing procurement decisions.*

[3] *a "party" refers to a public official; the terms "benefit" and "obligation" relate to the procurement process or contract execution; and the "act or omission" is intended to influence the procurement process or contract execution.*

mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(iii) **"collusive practice"**[4] is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

(iv) **"coercive practice"**[5] is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

(v) **"obstructive practice"** is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(bb) acts intended to materially impede the exercise of the purchaser's inspection and audit rights provided for under sub-clause 32 (e) below.

(b) will reject a proposal for award if it determines that the bidder considered for award has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for the contract in question;

(c) will cancel the contract if the purchaser determines at any time that the bidder, supplier and contractors and their sub contractors engaged in corrupt, fraudulent, collusive, or coercive practices.

(d) will sanction a firm or individual, including declaring ineligible, either indefinitely or for a stated period of time, to be awarded a contract if it at any time determines that the firm has, directly or through an agent, engaged in corrupt, fraudulent, collusive, coercive or obstructive practices in competing for, or in executing, a contract; and

(e) will have the right to inspect the accounts and records of the bidders, supplier, and contractors and their subcontractors and to have them audited by auditors appointed by the purchaser.

Furthermore, Bidders shall be aware of the provision stated in Sub Clause 32 of the General Conditions of Contract.

33. Appeal

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4 *"parties" refers to participants in the procurement process (including public officials) attempting to establish bid prices at artificial, non competitive levels.*

5 *a "party" refers to a participant in the procurement process or contract execution.*

33.1 This tender is governed by the provisions of Tamilnadu Transparency in Tenders Act 1998 and the Rules there under.

32.2 Any tenderer aggrieved by the order passed by the Tender Accepting Authority under section 10 of the said Act, may appeal to the Government within ten days from the date of receipt of order and the Government shall dispose the appeal within fifteen days from the date of receipt.

33.3 No Appeal shall be preferred while the tender is in process until tender is finalized and Notification of award as stated ITB in clause 29 is completed by the purchaser.

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.

7.6 Inspection and Audit

(i) The supplier shall permit the **purchaser** and or persons appointed by the **purchaser** to inspect the supplier's office and / or the accounts and records of the suppliers and its sub contractors relating to the performance of the contract, and to have such accounts and records audited by auditors appointed by the purchaser if required.

The Supplier's attention is drawn to Clause 32, which provides, inter alia, that acts intended to materially impede the exercise of the purchaser

inspection and audit rights provided for under Sub-Clause 7.6 (i) constitute a prohibited practice subject to contract termination

8. 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:

- Performance or supervision of the on-site assembly and/or start-up of the supplied Goods;

- furnishing of tools required for assembly and/or maintenance of the supplied Goods;

- furnishing of detailed operations and maintenance manual for each appropriate unit of supplied Goods.
- 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 One year 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.

15.4Payment shall be made in Indian Rupees

16. Prices

16.1Prices 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 for Default

(a) 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;

(i) 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

(ii) if the Supplier fails to perform any other obligation(s) under the Contract; or

(iii) if the supplier, in the judgment of the **Purchaser,** has engaged in fraud and corruption, as defined in GCC clause 32, in competing for or in executing the contract.

(b) In the event the ***Purchaser*** terminates the Contract in whole or in part, pursuant to GCC Clause 23.1(a), 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 additional costs for such similar Goods. However, the Supplier shall continue the performance of the Contract to the extent not terminated.

24. Termination for Insolvency

(a) 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 that has accrued or will accrue thereafter to the ***Purchaser***.

25. Termination for Convenience

(a) 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.

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

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

(ii) 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.

26. Force Majeure

26.1 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.

26.2 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.

26.3 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.

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.

31.2 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.

32. Fraud and corruption

32.1 If the Purchaser determines that the Supplier has engaged in corrupt, fraudulent, collusive, coercive or obstructive practices, in competing for or in executing the Contract, then the Purchaser may, after giving 7 days notice to the Supplier, terminate the Supplier's employment under the Contract and cancel the contract, and the provisions of Clause 23 shall apply as if such termination had been made under clause 23.

(a) For the purposes of this Sub-Clause:

(i) "corrupt practice" is the offering, giving, receiving or soliciting, directly or indirectly, of anything of value to influence improperly the actions of another party;

(ii) "fraudulent practice" is any act or omission, including a misrepresentation, that knowingly or recklessly misleads, or attempts to mislead, a party to obtain a financial or other benefit or to avoid an obligation;

(iii) "collusive practice" is an arrangement between two or more parties designed to achieve an improper purpose, including to influence improperly the actions of another party;

(iv) "coercive practice" is impairing or harming, or threatening to impair or harm, directly or indirectly, any party or the property of the party to influence improperly the actions of a party;

(v) "obstructive practice" is

(aa) deliberately destroying, falsifying, altering or concealing of evidence material to the investigation or making false statements to investigators in order to materially impede a purchaser investigation into allegations of a corrupt, fraudulent, coercive or collusive practice; and/or threatening, harassing or intimidating any party to prevent it from disclosing its knowledge of matters relevant to the investigation or from pursuing the investigation; or

(bb) acts intended to materially impede the exercise of the purchaser's inspection and audit rights provided for under Clause 11 [Inspections and Audits by the Bank].

32.2 Notwithstanding the clause 32 above, *Should any employee of the Supplier be determined to have engaged in corrupt, fraudulent, collusive, coercive, or obstructive practice during the purchase of the Goods, then that employee shall be removed.*

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 upto 60 days after the date of completion of performance obligations including the warranty obligations.

50% of value of 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 obligation including any warranty obligations. The Balance 50% value of the performance security will be released after entering into a comprehensive maintenance contract after the warranty period and on payment of required performance security for the CMC contract. However in no case, the performance security will be returned before the date of completion of the warranty obligation.

Performance security for Maintenance contract

After successful completion of warranty period of 3 years, the supplier shall furnish performance security for 5% of the comprehensive AMC applicable for 7 years maintenance period valid for 7 years period of maintenance.

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.

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 (in duplicate) 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.

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 along with necessary stock entry bills from the respective consignee.

a) If there is a delay in installation of the equipment due to reasons not attributable to the supplier such as non readiness of site, 50% of the supply value will be released against supply and provisional stock entry certificate from the consignee / end user.
b) If there is no situation such as non availability of site etc., and installation is taken up by the supplier immediately after supply, 50% of the supply value will be paid against supply and certificate for receipt of the item in good condition and a provisional stock entry certificate, from the consignee / end user.
c) On completion of installation, another 20% is payable against installation certificate issued by the end user.

d) The final 30% will be paid after receipt of proper stock entry certificate from the end user.

e) For items ordered in bulk quantities, the first payment will be released only after supply / installation of atleast 20% of the ordered quantity or Rs.25.00 lakhs whichever is less.

f) If the price includes customs duty, relevant documentary evidence for import of the equipment / goods (Bill of lading / Airwary Bill, Bill of entry and invoice copy) and proof for payment of Custom duty shall be furnished.

g) Payment will be made either by means of Cheque or through RTGS (Real Time Gross Settlement System) / Core Banking / NEFT (Net Electronic Fund Transfer).

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 with in 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 The supplier shall under take atleast one preventive maintenance visit per quarter and attend to all break down calls. The payment for the maintenance services will be made at the end of each quarter based on the certificate from the end user for completion of preventive maintenance and break down maintenance as per schedule.

16.2 An uptime guarantee of 95% shall be maintained out of total usage period of the equipment by the end users during warranty and maintenance period.

16.3 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.

16.4 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 3 years.

16.5 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.

16.6 The scope of comprehensive Annual Maintenance Contract shall include replacement of all parts without any exclusion. The supplier shall undertake atleast one Preventive Maintenance Service per quarter of the year and attend to all break down maintenance calls. The payment for the comprehensive maintenance will be made at the end of each quarter against certification from the end user for satisfactory completion of Preventive Maintenance within the quarter and attending the breakdown calls within the stipulated period of 3 days from the date of intimation.

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 31.03.2011

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

m) Technical literature and other documents in support of the goods / services.

n) Any deviations

o) List of items quoted (without prices)

p) In case of critical equipment, the supplier shall give a certificate to the effect that the equipment does not have any capability to remotely observe or access. If called for by the purchaser a verification and certificate of this claim shall be given by a 3rd party.

17.2 Price Bid (Cover B):

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

Sch. No.	Brief Description	Unit	Qty.	Bid security (Rs.)
	Neurology and Neuro Surgery			
1.	Multi para monitors for ICU as per specification	Nos.	25	Rs.10,000/-
2.	Suction apparatus as per specification	Nos.	12	Rs.1,200/-
3.	Portable X-ray as per specification	Nos.	4	Rs.40,000/-
4.	Wheel chairs as per specification	Nos.	7	Rs.1,400/-
5.	ICU Ventilators as per specification	Nos.	14	Rs.70,000/-
6.	Infusion pumps as per specification	Nos.	15	Rs.15,000/-
7.	Stretchers as per specification	Nos.	4	Rs.1,000/-
8.	Neurosurgical operation tables as per specification	Nos.	2	Rs.12,000/-
9.	Anesthesia machine as per specification	Nos.	2	Rs.16,000/-
10.	Multi parameter cardiac color monitor for OT as per specification	Nos.	2	Rs.12,000/-
11.	Peripheral nerve stimulator as per specification	No.	1	Rs.2,000/-
12.	Defibrillator as per specification	Nos.	2	Rs.1,000/-
13.	C arm and accessories as per specification	Nos.	2	Rs.40,000/-
14.	Craniotome and Micro Drill as per specification	Nos.	1	Rs.25,000/-

Delivery Schedule: - 30 days from the date of receipt of purchase order.

Place of delivery :- **The above items are to be delivered at Dept. of Neurology & Neuro Surgery, Multi Super Speciality Hospital at Omandurar Government Estate, Chennai.**

SECTION VI : TECHNICAL SPECIFICATIONS

SECTION VI : TECHNICAL SPECIFICATIONS

1. ICU MULTI PARA MONITORS WITH CENTRAL STATION

1. Monitor must possess unambiguous current USFDA Certification
2. It should have internally rechargeable battery with a backup time of not less than 2.5 Hours.
3. The display should be changeable fully to our need & should have user defined setups variable as per applications for easy use of the monitor in various clinical procedures.
4. Monitor should be configurable & have changeable screen configurations for various clinical setting. Even the size of numeric measurement can be increased easily for viewing from distance.
5. The display setting should have atleast 10 user defined setup variable as per applications for flexible use of the monitor in various clinical environments.
6. The monitor should have built in simulator feature to allow staff training without the expense of using an external simulator or patient connection.
7. The monitor should not require any internal cooling fan for battery hygienic environment, less service & maintenance.
8. The monitor should be not less than 12.1", color TFT with resolution of 800 x 600 and a minimum of 6 waveforms.
9. Monitor should process and display the following parameters, simultaneously in different colors ECG/Resp, NIBP, SpO2, Invasive Pressure monitoring (2 channels), Temprature (Minimum of 2 channel), ETCO2 (Mainstream/side stream /Micro stream), cardiac output & continuous cardiac output.
10. The monitor module should have an inbuilt display, battery to display waveform and numerics of patients during transport and also should be able to retain and transport the data.
11. The transition from bedside monitoring to transport and further back to bedside should be easy with no need for any disconnection of patient cables or any adjustment
    of monitoring or measurement settings. Module of the monitor should also store minimum of 8 hrs of patient data, so as there is no loss of information while on transport
12. Should also be upgradeable to Anesthesia Gas Monitoring, BIS monitoring etc., b addition of modules.
13. Monitor should offer complete Adult, pediatric and neonatal applications
14. Monitor should be able to set and display timer to notify the time of the case / time interval etc.,
15. Monitor should provide derved 12 lead ECG with either 5 electrodes or 10 electrodes and full arrhythmia capability.
16. The monitor should be able to provide a graphical trend display that can help clinicians to recognize ST changes and their location in the heart more easily.
17. Monitoring should have monitor artifact rejection in SPO2 Measurement.
18. The monitor should be able to display trended measurement data in relation a baseline value that is set by the end-user
19. The monitor should display beat event trends for all monitored parameter.

20. The monitor should have configurable alarm limits & be able to differentiate the severities (high, medium, low) of the alarms in visual and audio response. The monitor should on the top have a visual lamp indicator for the type of alarms being generated.
21. Each monitor should be supplied with reusable adult ECG lead wire set, Reusable adult SPO2 probe, reusable adult NIBP tubing and cuff, reusable adult general
purpose temperature probe, 2 nos. reusable IBP transducer cable with 15 nos. disposable IBP transducers, reusable cardiac output, continuous cardiac output inter-
face cable & respective temperature probes for cardiac output & continuous cardiac out put measurement & reusable mainstream ETCO2 transducer with adult
airway adapter and 40 kits of microstream / sidestream intubated and non intubated circuits.
22. The monitor should have defibrillator discharge protection and should have the facility to perform synchronized cardio version.

CENTRAL STATION SPECIFICATIONS

1. The Central Station should provides a central display of real-time physiological waves and parameters and annunciation of alarms for connected patients.

2. Main Screen for displaying real-time waves and parameters for up to 8 patients.

3. Upgradeable upto 32 patients using 2 displays in future.

4. Separate Patient Window for viewing detailed real-time or stored data for individual patients.

5. Central review station for reviewing up to 24 hours of stored patient monitoring data and atleast 150 30-second alarm records and saved strips, 4 waves per event.

6. Should be able to support the same companies telemetry system if bought in future.

7. Should be upgradeable to Web server that permits viewing stored and viewable patient data from browser equipped PCs via the hospital's HIS intra/internet.

8. Real-time and stored patient monitoring data include full disclosure wave forms and parameters, alarms, multi-lead arrhythmia, ST segments, QT/QTc Interval Monitoring, events, and trends.

9. Configurable scheduled reports for one or more patients that can be generated on demand or on a regular interval basis.

10. Tabular and graphical trend review – tabular presentation of averaged physiological parameter data.

11. Should be able to Support of HL7 output in the future.

12. The Central Station should be provided with 19" TFT Display, Laser Printer and also should take into account the wiring, switch and all necessary Hardware for the system's functionality.

2. SUCTION APPARATUS

- Should be electrically operated (230V) - 50 Htz +/- 10 %
- Should be mobile, cabinet with heavy duty casters of cabinet
- The suction motor should be not less then ¼ HP with suitable vaccum pump head.
- The negative pressure not less then 30 PSI
- Necessary line indicators on off Switch and Pressure Gauge to be provided in different panel.
- The collection bottle of two numbers should be provided with each capacity of not less then 2 litres.
- The bottle cap should be made of silicon with float valve and should be marked with S,A,B in the top out / in lets.
- Suitable Silicon tubing should be provided with necessary spare tubes of 5 Mtrs.
- Necessary safety release valves to be provided and all parts should be ISI Marks.
- Machine should complies IS standard.
- Bidders may please indicate standard(s) with which the product complies. Alternately bidders may indicate that their device is registered with national or international medical devices regulation agencies such as USFDA or EUMDD which assures that the product meets GMP, performance and safety standards.

3. PORTABLE X-RAY

X-Ray Generator

a. The generator should be line frequency unit and output power 5 KW.
b. The x-ray generator should have digital display of KV, mA and mAs.
c. The radiography KV should be from 40 to 100KV in 2KVP steps.
d. The radiography mA station should be in 4 steps up to 100.
e. The exposure time should be from 0.04 to 5.0secs.
f. The voltage indicator should be with neon lamp, which indicates low/normal/high voltages.
g. The generator should have micro processor based electronic overload system.
h. The x-ray tube should be rotating anode with spot of 1.2mm or less.

Stand:

a. It should be spring balanced.

b. It should have brake for proper locking.

c. It should easily move on ramp, lift and from corridor.

d. It should have parking position of tube arm in extreme lower position.

Entire equipment should conform to AERB/FDA Standard regulations.

4. WHEEL CHAIRS

	mm	mm		
1. Size	Width	650	to	720
	Length	1000	to	1100
	Height	910	to	950
	Floor to seat height	480	to	510

2. 1" (25mm) Diameter 18 SWG tubular frame fitted with seat and back. Adjustable horizontal aluminum foot rest 80 deg – 120 deg. With tread flats. Half round wooden Hand rest with 1 " (25mm) cushion. Solid rubber tyro Wheels 24" 11/2 (610x37mm) fitted with self propelling hoops and brake arrangement.
3. 8" (203mm) dia swiveling castors in front. Full length axle should be provided to fix the rickshaw wheel.
4. The above product should conform to applicable ISI standard in respect of materials,
5. Welding process test & performance. Conforming to BIS 6571 standard or equivalent.
6. Conforming to BIS 4036 standard or equivalent. The equipment should be suitable for operation in temperatures from 100 C to 450 C with a relative humidity of 100%
7. Equipment offered shall be adequately protected against and be able to withstand the prevailing climate in Tamil Nadu.
8. Labels and markings should be clear and visible.
9. Equipment should be simple to use, operate and maintain. It should be designed for easy access to serviceable parts.

10. Packaging and Storage
    a. Packing of the equipment should be easy to open and well labeled and marked with devices name and sellers name and address.
    b. Equipment should be able to withstand temperature and humidity extremes likely to be encountered during storage and transportation.

11. Bidders may please indicate standard(s) with which the product complies. Alternately bidders may indicate that their device is registered with a national or international medical devices regulation agencies such as USFDA or EUMDD which assures that the product meets GMP, performance and safety standards.

5. ICU VENTILATORS

- Principle – Time cycled, volume constant , pressure controlled ventilator

- Use and application –

- The ventilator should be suitable for use in Adult and Paediatric patients in all critical care areas.
- The ventilator should have both invasive and non invasive ventilation modes. Non invasive ventilation should be possible in all modes from control to spontaneous.

- Design – Modern design (year of introduction to be mentioned)
  - the ventilators should be an upgradeable design with software and / or hardware upgradeability for new/future functions.
  - A list of all such available upgrades should be mentioned

- Power – The ventilator should run on both mains and battery as below :
  - Mains Power – 230 V 50 Hz with onscreen battery power indication
  - Battery – Internal battery with minimum 45 minutes to one hour battery backup with onscreen battery power indication. The internal battery should also power the internal air source.

- Air Source - Should have an integrated internal air source :
  - for delivering continuous flow upto 180 lpm in all control modes
  - For delivering continuous flow upto 250 lpm in spontaneous breathing mode with pressure support
  - The air source should be powered by the internal battery for at least 45 minutes.
  - The air source should have integrated dust filters which should be easily removable and washable
  - Bacteria filters for delivering medical grade air should be integrated in the turbine
  - The air source should have a mean time between failure / life of 8 years. Same should be confirmed in writing by vendor

- Graphical Interface – All commands and settings should be through an integrated 12 inch colour touchscreen . The 12 inch display should show :
  - At least 3 curve from pressure, flow, volume or Capnography(optional).
  - The curves should be filled curves for easy viewing at a distance.
  - Any loops from PV, FV, PF should be displayed in any combination such as:
    - waveforms + loops
    - single loop on screen
    - waveform + loops + trends
  - It should be possible to freeze the loops and calculate with cursor the inflection points
  - It should be also possible to keep a reference point for loops
  - Integrated Graphical trend for 24 hours should be available for monitored parameters
  - Integrated Tabular trend also should be available
  - There should be a day/ night mode for easy viewing at night.
  - The numerical readings should be freely configurable as per user wish in ANY order

- Valve response time –
    - The ventilator should have extremely sensitive valve with response time ≤ 5 msec for ensuring quick delivery of gases during spontaneous breathing (proof of same to be shown in technical data sheet)
- Nebuliser
    - The ventilator should have a simple pneumatic nebuliser which should be inspiration synchronised and volume compensated. This should be supplied as standard scope of supply.
- Oxygen Cell
    - The ventilator should have low operating costs with a permanent/ non consumable O2 sensor for FiO2 monitoring. Same should be offered as standard.
    - In case consumable/ electrochemical O2 cells are offered by a vendor, same should be provided free of charge for operational lifetime of equipment of 8 years.
- Humidifier
    - The ventilator should be supplied with either a simple heated humidifier with
        - Adult and pediatric hoses
        - Heating control
        - Temperature measurement
- Flow sensor :
    - The flow sensor should be of heated wire type for higher accuracy.
    - It should calibrate within 5 seconds and without necessity to disconnect from patient.
    - It should be easily replaceable without disassembling the machine or disassembling the expiratory valve
- Disposables - For highly infectious diseases, disposable patient hoses, disposable expiratory valves and disposable HMEs for adults and paediatrics should be offered as per scope of supply.

- Suction / Oxygen enrichment –

    - 100% O2 enrichment for 3 minutes with automatic time countdown
    - Disconnection detection

- Modes of Ventilation - The ventilator should have the following ventilation modes as standard with quick touchscreen based operation / change from one mode to another:

    - Volume Control – Control, Assist Control, SIMV with/ without Pressure support
    - Sigh –
        - pressure oriented sigh to avoid volutrauma/ barotraumas
        - should be adjustable above the set PEEP.
        - Automatically available every 3 minutes for 2 breaths
        - Adjustable 0 – 20 cmH2O above PEEP

- CPAP with/without Pressure Support
- PC-BIPAP – Biphasic (and not Bi-Level) with/without Pressure Support with spontaneous breathing at two pressure levels. Should be one pressure mode from intubation to extubation
- PC-AC

- AutoFlow or equivalent Dual Control Mode for :
  - delivering tidal volume at lowest possible airway pressure
  - should be possible to combine in all volume control modes
  - **should allow spontaneous breathing in all volume controlled modes**
- Apnoea backup ventilation mode with adjustable tidal volume and rate
- Non Invasive Ventilation
  - Should be possible to be used in all modes – from control to spontaneous
  - Should have leakage compensation upto 200% of tidal volume
  - The alarm limits and compensation criteria should get modified based on selection of Tube / Mask ventilation mode for all the modes
  - The unit should be supplied with Face/ Nasal Masks with gel cushion for face, adjustable cushion pad for nasal bridge and magnetic connectors for quick fastening
  - The mask should be non vented type for use in a dual limb circuit and preferably from same vendor.
- Airway Pressure Release Ventilation (Standard or Optional)
- MMV or equivalent Volume mode for one volume controlled mode from intubation to extubation ; combined with or without Pressure Support and AutoFlow (Standard or Optional)
- Inspiration Hold key for maximum of 15 seconds
- Expiration Hold for Maximum of 15 seconds
- Intrinsic PEEP manoeuvre with trapped volume measurement

Should have BTPS compensated settings for :

Tidal Volume in Volume modes	50 ml to 2000 ml. Optional upgrade to be available for 20 ml
Inspiratory Pressure	1 – 99 cmH2O
CPAP/PEEP /Intermittent PEEP	0 – 50 cmH2O
Inspiratory Rate	2 – 80 bpm
Inspiratory Time	0.2 – 10 sec
Flow acceleration	5 – 200 mbar (to deliver continuous peak flow upto 180 lpm)
Flow Trigger	1 – 15 lpm
Pressure support	0 – 50 cmH2O above PEEP
Manual Inspiratory hold	0 – 15 sec
Sigh (Pressure oriented)	0 – 35 cmH2O, every 3 minutes for 2

	cycles
FiO2	21 - 100%
Apnoea alarm timing	15 – 60 seconds
Automatic altitude compensation	700 – 1060 hPa/ mbar/ CmH2O/
Sigh pressure	0 – 20 CmH2O above PEEP
Inspiration termination Criteria	5 – 75% of Peak Inspiratory Flow

Should have BTPS compensated real time monitoring of:

- Pressure - Peak, Plateau, Mean, CPAP/PEEP
- Intrinsic PEEP with trapped Volume
- Tidal Volume - Set (Inspired) , Monitored (expired), spontaneous
- Minute Volume - Total, spontaneous, leak
- Peak Flow, Plateau time
- Frequency/ Rate - Set (Inspiratory), Spontaneous, total, I:E Ratio
- FiO2 measured
- Airway Temperature (if active humidifier is used)
- Lung Mechanics - Resistance, Compliance, Rapid Shallow Breathing Index (RSB)
- Capnography (Optional)
    - Capnogram
    - Mainstream sensor
    - ETCO2, dead space calculation

- Should have three level (Advice- Caution – Warning) ISO alarm management with different audio visual color coded alarms, including corrective help messages on the screen for :-
    - High/low Pressure
    - High/low Minute Volume
    - High Rate
    - High Tidal Volume
    - High / Low ETCO2 (optional)
    - Apnoea / apnoea alarm time
    - High/low O2 % (automatic settings)
    - Oxygen line failure
    - Technical error (with error code)
    - Incorrect / abnormal settings – with warning message

Scope of supply should include

- Basic Unit (220 - 240 V) with integrated 12 inch touch screen and integrated internal battery to power internal turbine / air source
- Modular corrosion free Trolley - should be imported , of same make as the quoted brand <u>and no local substitute will be accepted/ should be offered</u>.
- Simple heated humidifier OR
- Heated Flow sensor - 10 no.s

- Reusable autoclavable expiratory valve - 2 No.s (1 on machine and 1 on standby)
- O2 cell – should be non consumable and life long
- Disposables :
  - Disposable Adult hose set – 50 No.s
  - Disposable Pediatric hose set – 50 No.s
  - Disposable Adult HMEs for use from 200 – 1500 ml
  - Disposable pediatric HME for use from 20 – 200 ml
  - Disposable expiratory valves for use with the machine – 20 No.s
- Oxygen connecting Hose – 3 meters
- Nebuliser – pneumatic , inspiration synchronised
- Hinged arm Support for patient circuit – should be imported , of same make as the quoted brand and no local substitute will be accepted/ should be offered
- Integrated RS232C Interface
- Test Lung – preferable from same vendor
- Instruction Manual

- Quality Standards and Support requirements
  - The offered unit should have CE/FDA certificate
  - The unit should comply with relevant IEC Certification, Environmental conditions, Electromagnetic compatibility ICE/EN 60601-1-2
  - Indian subsidiary/ dealer should have nationwide network, support offices and must be also ISO 9001 certified.

- **Optional equipment/ features to be quoted indicating separate price –**
  - Low Pressure Oxygen – LPO
    - Connection for use with low pressure source such as Oxygen concentrator
    - O2 flow 0.5 – 10 l/min
    - Connecting hose nozzle 6 mm diameter

  - Extended battery pack
    - Up to 5 hours of operation
    - Suitable for conformal fit on trolley

  - Capnography
    - Should be mainstream sensor based
    - Should display ETCO2 curve
    - Should read ETCO2 values, dead space in either kpa or %

6. INFUSION PUMPS

- Should be microprocessor based Volumetric & Drop Infusion Pump with approximate operational ranges from
- 1-600m1 per hour and Micro range 0.1 to 99.9m1 per hour. Should have Micro &

Macro Operation with LCD Display.

- The unit should be provided with PURGE and BOLUS modes.
- Should display total ml. infused, Equivalent drops/min and Elapsed time.
- Should have facility to set Target volume.
- Should have Air-in-line detector in-built
- Should have Alarms for High/Slow Speed, Empty fluid, Air bubble Alarm, Pump door open, Battery charge low etc.
- Should have work on mains (220 volt / 50 Hz) and Battery.
- Should have min. 3-hrs battery backup.
- Should have on Micro and Macro standard I.V. Sets.
- Should have work on any brand of standard I.V. Sets.
- Should have stop lever safety feature in case of accidental door opening.
- Should have lightweight and should have stain proof ABS Plastic Body.
- Should carry a 3 year warranty period.

1. Labels and markings should be clear and visible.

2. Equipment should be simple to use, operate and maintain. It should be designed for easy access to serviceable parts.

3. Packaging and Storage
   a. Packing of the equipment should be easy to open and well labeled and marked with devices name and sellers name and address.
   b. Equipment should be able to withstand temperature and humidity extremes likely to be encountered during storage and transportation.

4. Bidders may please indicate standard(s) with which the product complies and should provide evidence of compliance.. Alternately bidders may indicate that their device is registered with a national or international medical devices regulation agencies such as USFDA or EUMDD, which assures that the product meets GMP, performance and safety standards.

7. STRETCHERS

1. Size	Length	84” (2133 mm)
	Width	24” (610 mm)
	Height	32” (813 mm)

2. Removable stretcher top made up of S.S. 20 SWG 304 Grade with full. Polish. Sheet Metal.. The top should be dished to a depth of not less than 11/ 2 “(37 mm) to not

more than 2” (51 mm), further fixed on 1” (25mm) dia 18 SWG S.S. tubule frame. 4 nos. of 1” (25mm) diameter 18 SWG – S supporting floor studs also to be provided, at the bottom of stretcher with nylon grommets.11/4 “(31mm) sq. 16 SWG ERW pipes used both for vertical and horizontal supporting frame. Stretcher handle S.S. 18 SWG 304 grade round shape with full policy. 6” (!52mm) diameter. 4 nos. swiveling castor rubber wheels.

3. Epoxy powder coating with minimum 50 microns.
4. The above product should conform to applicable ISI Standard in respect of materials.
5. Welding process, test & performance.
6. Conforming to BIS 4036 standard or equivalent.
7. The equipment should be suitable for operation in temperatures from 10^0 C to 45^0 C with a relative humidity of 100%
8. Equipment offered shall be adequately protected against and be able to withstand the prevailing climate in Tamil Nadu.
9. Labels and markings should be clear and visible.
10. Equipment should be simple to use, operate and maintain. It should be designed for easy access to serviceable parts.
11. Packaging and Storage
    a. Packing of the equipment should be easy to open and well labeled and marked with devices name and sellers name and address.
    b. Equipment should be able to withstand temperature and humidity extremes likely to be encountered during storage and transportation.

8. NEUROSURGICAL OPERATION TABLES

OPERATION THEATRE TABLE ELECTRO HYDRAULIC

Overall length	-	2130 mm
Width of Table	-	600 mm approx.
Height adjustment	-	740 – 1100 mm
Trendelenburg	-	30^0
Reverse Trendelenburg	-	30^0
Lateral adjustment (L/R)	-	+ / - 20^0
Longitudinal displacement of the tabletop	-	250 mm
Back Section	-	+ 70^0 / - 50^0
Leg Plate (S)	-	+ 20^0 / - 90^0
Kidney Bridge		
Swivelling of leg plate	-	55^0
Headrest	-	+ 25^0 / - 45^0

Tilt of head section pad - 25^0

Nominal capacity - 135 kg

Table should be C-Arm compatable

Tabletop should be X-Ray compatable

Detachable Head end to facilitate attachment of neuro surgical accessories

Mounted on Castor Wheels – so movement is smooth

Mechanical pedal brake – for firm and rigid locking

Brake release – Free to move

Radiolucent top and cassette carrier

Stainless steel base, body and accessories

Should have Battery backup all operations

O.T. Table should be operatable with the help of Hydraulic foot pump, in case of failure of the electric/ electronic components

For Specialised Procedures

Lightweight and excellent manoeuvrability

Electro hydraulic pump in addition to the hydraulic foot pump

Five part, radiolucent tabletop

Remote hand control to activate the electro hydraulic pump including all position.

Rechargeable batteries and Battery charger 230V

Table adjustments – High/ Low, Trendelenberg and lateral tilt position, lithotomy position.

360 deg. rotatable table top

Neuro Attachments : Should be quoted separately

3 Pin Skullclamp with table attachment.

Horse shoe head rest with table attachment.

Leyla retractor system with operating table attachment.

Accessories:

Armrest ,Anaesthetic frame ,Body restraint strap, Wrist strap, Infusion rod, Attachment clamp,Head ring, Rack for accessories, Cassette carrier, Lithotomy stirrups

9. ANESTHESIA MACHINE

1. Compact and modular, three gas Anaesthesia workstation with an integrated ventilator for adult to infants and integrated airway monitor for airway pressures and volume.
2. The machine should be suitable for low and minimal flow anesthesia application with compliance compensation of breathing ckt, fresh gas flow compensation/ decoupling.
3. The machine should have 3 drawers
4. The anaesthesia machine, vaporizer and patient monitor should be manufactured by same company.
5. The system should have upto 1 Hrs. battery backup
6. System should confirm to EN 60601-2-13 (Requirement for safety and essential performance of anaesthesia system)

7. Gas delivery system

- Should have pin index yokes for Oxygen & Nitrous Oxide besides separate connection for Central gas supply for Oxygen, Nitrous Oxide and Air.
- The machine should have pressure gauges for cylinders & central supply lines mounted on front of Anaesthesia machine for better visibility. The gas connections should be non-interchangeable.
- Automatic cutoff of N2O by Oxygen pressure failure.
- Hypoxic guard for linear regulation of minimum oxygen concentration at 21% volume and must ensure a minimum Oxygen flow of 200 ml at low fresh gas flow settings even below total 500 ml fresh gas flow
- Audible visual oxygen failure alarm.
- Emergency Oxygen flush at 30 – 70 L/min bypassing the vaporizer.

8. Flow meter

- Dual Cascade type flow meter tubes for Oxygen & N2O.Range 20 ml / min to 10 Lit/min. Calibrated in multiple scales. Single tube for air 100 ml to 14 L/ min.

9. Vaporizer

- Machine should have possibility to mount two quick mount type vaporizer for easy interchangeability, and safety.
- Should be provided with a Temperature / pressure compensated and flow independent Vaporiser for Isoflourane & Sevoflourane.
- Vaporizer should have extended delivery range from 0 to 6 Vol. %
- The vaporiser design should be maintenance free.

10. Breathing System

- Should have fresh gas de-coupled semi closed circle absorber system.
- Should have adjustable pressure relief valve from 5 to 75 mbar.
- Should have change over from Spontaneous to Bag ventilation with single step.
- Should have optimised absorber canister approx 1.5 Ltr.
- Should have an external fresh gas outlet for connecting Magill or Bain's circuit

11.Anaesthesia Ventilator

- Electronically controlled electrically driven ventilator should not require any driving gas
- Should not require changing of bellows for adult & infants.
- Modes: Volume controlled, Manual/Spont.
- Tidal Volume : 20 ~ 1500 ml
- PEEP : 0 ~ 20 mbar
- Breathing Frequency : 4 to 60 BPM
- I:E Ratio : 4:1 to 1:4
- Inspiratory pause : 0 – 50% of Ti
- Frequency 1 to 60 1/ min, I : E = 2:1 to 1:3.
- Should automatically compensate for Compliance of breathing system.
- Should have Desflurane compensation.
- Should be able to ventilate with atmospheric air, incase of missing gases.

12.Airway monitoring

- Integrated monitor for electronic monitoring and display of following parameters :
  - Expiratory Tidal Volume
  - Expiratory Minute volume
  - PEEP, Peak & Mean and Plaetau airway pressure
  - Frequency
  - Waveform display for Airway pressure.

13.Alarm limits & alarms

- Adjustable high / low limits with audio and visual alarms for the following :
  - Minute volume,
  - Airway pressure (incl stenosis and disconnect),
  - Insp oxygen concentration,
  - Audio power supply fail alarm,
  - Fail to cycle warning.

14.Machine should have RS 232 connectivity port

15.Scope of supply

- 3 gas Anaesthesia machine
- Trolley with 3 drawers
- Writing surface
- Pin Index yokes for O2 & N2O

- Pipeline connections for all three gases
- Ventilator & monitor
- Semiclosed breathing system
- Adult & Peadiatric autoclavable patient tubings
- Anaesthetic mask size – Adult & child
- Vaporisers for Isoflourane & Sevoflourane
- Central gas supply hoses (Color coded)

The offered unit should have FDA certificate.

10. <u>MULTI PARAMETER CARDIAC COLOR MONITOR FOR OT</u>

1. It should have modular & multi measurement server design.
2. It should have color coded modules to avoid inserting wrong cables, leads
3. It should have bright, highly visible minimum 12 inch Medical Grade flat Touch screen color TFT display of the parent company, High resolution screen for easy viewing from a distance including TRIM Knob operation.
4. It should have the capability to display atleast Six real time waveforms along with related numerical parameters on a single screen.
5. The size of the numerics and waveforms should be adjustable to become larger for viewing from very long distance.

6. It should have the capability to be operated through both Touch screen and Trim Knob interface.
7. It should have continuous 12 lead ECG monitoring facility through 5 or 10 lead cable including 12 lead ST segment analysis with 12 lead ST mapping facility. Whenever need arises, the monitor should also have the capability of capturing the 12 lead ECG from the main monitor & allows printing the desired 12 lead ECG at the central station, eliminating the need of ECG machine.
   It should have minimum 48 hours of Graphical, tabular Trends. It should also have the advanced trending capability which shows the condition of patient in one single snap shot.
9. It should have advanced multi-lead arrhythmia analysis capability.
10. It should have completely configurable screen configurations for various monitoring settings like emergency, general monitoring, 12 lead screen etc, Big Numeric's, SEPSIS Screen, Ischemia screen etc .
11. It should have drug, oxygenation, ventilation and hemodynamic calculation packages.
12. It should have the software in built into the main monitor which has the Guidelines administered by Survival of SEPSIS Campaign (SSC) which allows to perform SEPSIS Screening, Diagnosis & therapeutic procedures.
13. Should have facility to interchange all the modules/ servers between all the monitors, so that one or more optional modules/ servers can be operatable on all monitors at different point of time.
14. The monitor should have proper valid US FDA approval & CE certification.
15. Standard measurements to be provided with all the monitors are ECG, Heart Rate, Respiration Rate, SpO2, Non Invasive Blood Pressure, and etCO2 (Main Stream)

through one module/server with TFT touch screen which can be operable using battery power up to 3 hours of basic monitoring. The same server can be used as separate transport monitor.

16. Additional parameters/modules required to be quoted with the monitors, which should be used in any of the monitor at any time.
    a. Cardiac Output through thermo dilution method and minimally invasive continuous cardiac output (PiCCO) with CO/CCO Cable & Inject temp probe – 02nos
    b. SO2 Module – 02 nos. which can be shared between all monitors.
    c. Interface Module for interfacing ventilator
    d. Recorder Module – 04 nos. which can be shared between all monitors.

11. PERIPHERAL NERVE STIMULATOR

- **EMG (Surface & Needle)**
- Interference pattern
- Spontaneous
- Triggered MUAP
- **Evoked potentials**
- Somatosensory evoked potential
- Auditory evoked potential
- Visual evoked potential
- **Nerve Conduction Studies**
- Motor nerve conduction studies
- Sensory nerve conduction studies
- F-Wave
- H-Reflex
- Blink Reflex
- Repetitive stimulation/myasthenia/Decrement
- **Technical specifications and Features:-**
- Channels : 4
- Sensitivity : 0.1, 0.2, 0.5, 1, 2, 5, 10, 20, 50, 100, 200, 500uv/div:1, 2, 5, 10, 20 mV/div.

- Highcut : 2 Pole, (12 db/octave) filter, selectableat 100, 200, 500 Hz: 1, 2, 3,5,10 KHz
- Lowcut : selectable at 0.2, 2, 20, 30, 100, 200, 500Hz.
- Sweep Speeds : 1 to 1000ms/div in 19 steps (1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30, 50, 75, 100,
- (NCS & EP) 150, 200, 300, 500, 750, 1000).
- Sweep speeds : 2 to 500ms/div in 13 steps (2, 4, 6, 10, 20, 30, 50, 75,100,150,200, 300,500)
- (EMG)

- CMRR : > 100dB
-
- Input Impedance : > 100M Ohms (Common mode)
- Noise : <0.5 uV rms. (1 Hz to 10 KHz)
- A/D conversion : 14 bit
- **Electrical Stimulation:**
- Duration : 0.02, 0.05, 0.10, 0.20, 0.50, 1.0 rms
- Respiration rates : 0.5, 1, 3, 5, 7, 10, 15, 20,20,25, 30 PPS standardor any user definable value.
- **Electrical stimulator:-**
- Type : Hand Held, Constant current electrical stimulator with stimulus Intensity dial and stimulus trigger on handle. Save and start/stop Switches are provided on stimhandle.
- Isolation : Electrically isolated stimulator with independent controls.
- Electrical range : 0-100mA with adjustable duration intensity and repetitive rate.
- **Auditory Stimulator:**
- Type : Headphone
- Stimulus : Click (Range, Comp, Alt), pips.
- Frequency : 250 Hz to 8000Hz

- Intensity : 0-110 dB Nh1 OR 30-140 dB SPL.
- Presentation : Left, Right or both ears.
- Click duration : 100uS Square waveclicks, Rarefaction, Condensation or alternating Polarity
- Envelops : Linear, Gausian, Blackman, Hanning.
- White Noise : Contra Lateral Masking form 0dB to 80 dBnHL.
- Rate : User definable.

- **Visual stimulator:**

- Video monitor : VEP monitor for black and white or color with user Programmable colors, pattern reversal check board stimulation, vertical bars, horizontal bars, Features centre fixation target, independent quadrant and half field stimulation.

- Square size : 2, 3, 4, 5, 7, 8, 9, 11, 13, 16, 21, 32, 64.

- Flash mode : Available.

1. EMG STUDY : During study of EMG set facility to have online acquisition of both two channel and four channel waveforms. This facility is useful for testing of tremor patients.
2. Acquire of EMG waveforms with sound and facility to playback EMG waveforms with sound in Analyze mode.
3. Exhaustive EMG with split screen facility to show selected MUP. Detailed calculation such as turns, phases, amplitude, rise time for each MUP can be easily viewed.
4. Spontaneous Activity : In acquire amplitude duration can be measured.
5.Spontaneous,MUP,,Interpference Pattern: Facility to view fibrillation or fasciculation and at a time on the screen 4,000 msec data can be viewed.
6.In RNS facility to study pre exercise and post exercise on single screen.
7. Auto-run CD: You can view the patients test and CD on any computer with the Auto-Run CD facility.
8. Quantative EMG tests can be done.

9. Online display of current stimulation in mA facility is available – even 1MA change in current can be controlled and seen on line, on the monitor (display screen) but in competitor No online display of change of current in mA in monitor. This make it very difficult to do all routine tests like Motor, Sensory, Fwave, Decrement studies etc.,

10. A very useful feature of BAEP or BERA is estimation of hearing threshold in infants and children below 5 years should be possible.

11. For averaging the counts (like 2000 counts) should be done by software control and not by foot switch.

12. Auto-protocol facility for performing the tests at various intensity levels.

13. In all the EP tests – SSEP, VEP, BERA – upto 8 tracings can be done and superimposing of 4 tracings over other four tracings for comparison is possible.

14. In MNC upto 8 traces should be done which is very useful while doing CTS (CARPAL TUNNEL SYNOROME) Tests.

15. RNS (Decrement study) Pre and Post exercise – should be done on single screen.

16. In F-Wave sensitivity control should be applied for F AND M wave individually.

17. VEP check Pattern on screen, both color and B/W should be available.

18. Sweep speed and sensitivity should be able to change after acquisition.

19. Sweep speed can be changed in following step i.e.,

1, 1.5, 2, 3, 5, 7.5, 10, 15, 20, 30, 50, 75, 100, 150, 200, 300, 500, 1000 ms/D.

20. Patient isolation for patient safely should be provided by optically isolated acquisition module from input box.

21. User programmable rates for all stimulators.

22. Different check sizes which can be viewed in 16 different field in VEP test.

23. User definable marker names. All markers are automatic.

24. Individual settings for all nerves.

25. Double buffered averaging for easy understanding of EP replication.

26. Facility of selecting dB in NHL or SPL should be available.

27. Easy muscle scoring with pre-defined groups.

28. Fuzzy adaptive algorithm for rejection in EPs.

29. EMG trigger should be adjusted while acquiring & reviewing the data through software.

30. Online guide to locate various Muscles / Nerves.

31. Estimation of hearing threshold in infants and children should be possible in BERA test.

32. Blink reflex studies – Facilities to study Ipsiletral and Contralateral at the User definable.

33. Facility to do 4 ch acquisition in EMG tremor study.

12. DEFIBRILLATOR

- Should be a Biphasic defibrillator, monitor with recorder.
- Energy level should be selected in manual mode from 2 joules to 200 joules.
- Should work on manual and automatic mode.
- Should defibrillate through pads and paddles.
- Should have a built in 50mm strip printer.
- Should have charging time of less than 5 seconds for 200 J energy.
- Should have bright TFT display for viewing waveforms and massage.
- Should have external paddles with paddles contact indicator for good paddle contact.
- Should have event summary facility for recording and printing atleast 250 events and 50 Waveforms.
- Should have facility to store patient data on data card typically more than 90 minutes of patient ECG and events.
- Should have sealed lead acid battery capable of usage for atleast 90 minutes or 40 discharges.
- Should have optional SPO2 facility.
- Should have configurable shock protocol, set up mode and auto self test
- Should have optional Transcutaneous demand and fixed mode pacing.
- Should be capable of doing synchronized cardio version.
- Should be capable of printing reports on event summary, configuration self test, battery capacity etc.

- Should have facility for adult and pediatric internal paddles.
- Should have facility for self test/check before usage and set up function.
- Should be supplied with main unit with one set of Adult and pediatric external and standard accessories.
- Should have CE/FDA certification.

13. <u>C ARM AND ACCESSORIES</u>

- Generator must have the following:-

  1) High Frequency Generator of 2.5 kw

  2) 40 to 100 kv range in steps

  3) mA range – Fluroscope – 0.5 to 3.5 mA

  Radography – 15 to 60 mA

- Movement must have the following:-

  1) Orbital movement 115 deg.

  2) Carm angulation +/- 190 deg.

  3) Carm horizontal travel 20 cm

  4) Carm swivel range +/-12.5deg

  5) Carm vertical range 40 cm

  6) Focus to Image Intensifier distance 90 cm

- must have automatic dose rate control and manual mode
- Image Intensifier must have the following:-

  1) size – 15 cm with CCD

  2) format dual mode – 10cm & 15cm

- 2 Nos. of monitors must have the following:

  1) Monitor size – 17”

  2) Monitor for studying Reference and live image simultaneously

  4) facility for last image hold

- must have total digital image memory atleast four
- Equipment to be supplied along with the following items:-

1) Cassette holder with 1 No. 8”*10” and 1 No. 10”*12” cassette with intensifying screen

2) Sterile cover for C-arm, X-ray tube and Image Intensifier

3) Thermal Printer

4) VCR

- must have accessories such as AC(1.5T) and Voltage stabilizer

14. <u>CRANIOTOME AND MICRO DRILL</u>

- must have motor driven by electronic commutation technology i.e. brushless design.
- must have high speed motor for craniotome and micro drill and dedicated low speech/high torque motor for skull perforation and saw 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 speed adjustable between 30000 to 90000 rpm.
- must have dual hand piece usability with a single central console- must have hand pieces, oscillating saw
- All must be sterilisable.
- electrically operated.
- must have detachable motor cable and one motor cable for all motors.
- must have all burrs and hand pieces 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 link mechanism.
- must have lightest and thinnest hand piece.
- must have post operating oil spray.
- must have audible alarm.
- must have micro drill hand pieces.
- must have long curved telescoping hand piece.
- must have instantaneous break.
- must have complete upgradability.

SECTION VI-A : QUALIFICATION CRITERIA

(Referred to in Clause 11.2 of ITB)

For 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

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

1. Manufacturer Bidders

(i) The bidder must have manufactured and supplied satisfactorily the similar model ***quoted*** *in each schedule of the Schedule of Requirements either directly or through of any other authorized dealer to the extent of at least 3 Nos. for Sl.No.1, 2, 5, 6 and 1 No. for Sl.No.3,4,7,8 to 14 under "Section – V, Schedule of Requirements" in any one of the last five years* ***of which minimum 1 No. 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 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 meeting all their current commitments.

(iii) 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.

2. 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 (1) above*** *(all supporting documents/information as asked above for manufacturer shall be submitted with the bid) and*

a) 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 manufacturer, must have supplied and provided after sales service to the extent of at least 1 No. of the quantities of ***similar model*** *in the Schedule of Requirements in any one of the last five (5) years* ***to Indian***

***Institution**, which must be in satisfactory operation at least for one year on the date of bid opening.*

3. <u>Common to Both Manufacturer and Bidder</u>

(i) The information on past supplies and satisfactory performance should be given in the Proforma given under Section-XI.

(ii) Documentary evidence (end users certificate) in support of the satisfactory operation of the goods as specified above shall invariably furnished.

(iii) Data to support that the manufacturer has the financial and production capacity to perform the contract and complete the supplies within the stipulated delivery period shall be furnished. for the non-manufacturer bidder data to support that he has the financial capacity to perform the contract and complete the supplies within the stipulated delivery period shall be furnished. Reports on financial standing shall be in the form of profit and loss statements, balance sheets and auditors report for the past three years, bankers certificate, etc.,

a) The bidder should have a manufacturing capacity of atleast 504 Nos. for Sl.No.1, 216 Nos. for Sl.No.2, 72 Nos. for Sl.No.3 & 7, 126 Nos. for Sl.no.4, 252 Nos. for 5, 270 Nos. for Sl.No.6, 36 Nos. for Sl.No.8, 9,10, 12 & 13, 18 Nos. for 11 & 14 of similar capacity machines per annum certified by licensing authority/ chartered accountant.

b) The annual sales turnover for the bidder should be atleast Rs.10.00 lakhs for Sl.No.1, Rs.1.20 lakhs for Sl.No.2, Rs.40.00 lakhs for Sl.No.3 & 13, Rs.1.40 lakhs for Sl.No.4, Rs.70.00 lakhs for Sl.No.5, Rs.15.00 lakhs for Sl.No.6 and Rs.1.00 lakhs for Sl.No. 7 &12, Rs.12.00 lakhs for Sl.No. 8, Rs.16.00 lakhs for Sl.No. 9, Rs.12.00 lakhs for Sl.No.10, Rs.2.00 lakhs for Sl.No.11, Rs.25.00 lakhs for Sl.no.14 in any one of the last three years (2006-07 to 2009-10), and it should be certified by the chartered accountants.

c) The bidder should have a cash/ credit limit of atleast Rs.2.50 lakhs for Sl.No.1, Rs.0.30 lakhs for Sl.No.2, Rs.10.00 lakhs for Sl.No.3 & 13, Rs.0.35 lakhs for Sl.No.4, Rs.17.50 lakhs for Sl.No.5, Rs.3.75 lakhs for Sl.No.6 and Rs.0.25 lakhs for Sl.No. 7 &12, Rs.3.00 lakhs for Sl.No. 8, Rs.4.00 lakhs for Sl.No. 9, Rs.3.00 lakhs for Sl.No.10, Rs.0.50 lakhs for Sl.No.11, Rs.6.25 lakhs for Sl.no.14 with their bankers exclusively for this contract and a certificate for the above shall be furnished by the bankers.

(iv) Further, the manufacturer 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. In case of non-manufacturer bidders, this condition should be satisfied by the manufacturer of the product.

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

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:

a. *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."*
b. *The foreign manufacturer is permitted to submit an affidavit in their letter head duly signed by the authorized signatory of the manufacturer confirming that the performance statement given is correct.*

SECTION VII : BID FORM AND PRICE SCHEDULES

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						6	7	8
				PRICE FOR EACH UNIT								
Sch No.	Item Description	Country of origin	Quantity & Unit	Ex-factory Ex-warehouse Ex-showroom off-the shelf (a)	Excise duty, if any (b)	Packing & forwarding (c)	Inland transport, Insurance and Incidental costs incidental to delivery (d)	Incidental services as listed in clause 7 of SCC (e)	Customs duty (f)	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
1.	Multi para monitors for ICU as per specification		25 Nos.									
2.	Suction apparatus as per specification		12 Nos.									
3.	Portable X-ray as per specification		4 Nos.									
4.	Wheel chairs as per specification		7 Nos.									
5.	ICU Ventilators as per specification		14 Nos.									
6.	Infusion pumps as per specification		15 Nos.									
7.	Stretchers as per specification		4 Nos.									
8.	Neurosurgical operation tables as per specification		2 Nos.									
9.	Anesthesia machine as per specification		2 Nos.									
10.	Multi parameter cardiac color monitor for OT as per specification		2 Nos.									
11.	Peripheral nerve stimulator as per specification		1 No.									
12.	Defibrillator as per specification		2 Nos.									
13.	C arm and accessories as per specification		2 Nos.									
14.	Craniotome and Micro Drill as per specification		1 No.									

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

1. Multi para monitors for ICU as per specification……
2. Suction apparatus as per specification……

3. Portable X-ray as per specification……..
4. Wheel chairs as per specification…….
5. ICU Ventilators as per specification……..……
6. Infusion pumps as per specification……
7. Stretchers as per specification……..……
8. Neurosurgical operation tables as per specification……..……
9. Anesthesia machine as per specification……..……
10. Multi parameter cardiac color monitor for OT as per specification……
11. Peripheral nerve stimulator as per specification……
12. Defibrillator as per specification……..……
13. C arm and accessories as per specification……..……
14. Craniotome and Micro Drill as per specification……..……

a) Annual Maintenance Charges (labour only) per year /per unit for 7 years after 3 years free warranty maintenance period

a) Multi para monitors for ICU as per specification……
b) Suction apparatus as per specification……
c) Portable X-ray as per specification……..
d) Wheel chairs as per specification…….
e) ICU Ventilators as per specification……..……
f) Infusion pumps as per specification……
g) Stretchers as per specification……..……
h) Neurosurgical operation tables as per specification……..……
i) Anesthesia machine as per specification……..……
j) Multi parameter cardiac color monitor for OT as per specification……
k) Peripheral nerve stimulator as per specification……
l) Defibrillator as per specification……..……
m) C arm and accessories as per specification……..……
n) Craniotome and Micro Drill as per specification……..……

b) Annual Maintenance Charges (Comprehensive) for 7 years / per year / per unit after free warranty maintenance period

a) Multi para monitors for ICU as per specification……
b) Suction apparatus as per specification……

c) Portable X-ray as per specification……..

d) Wheel chairs as per specification…….

e) ICU Ventilators as per specification……..……

f) Infusion pumps as per specification……

g) Stretchers as per specification……..……

h) Neurosurgical operation tables as per specification……..……

i) Anesthesia machine as per specification……..……

j) Multi parameter cardiac color monitor for OT as per specification……

k) Peripheral nerve stimulator as per specification……

l) Defibrillator as per specification……..……

m) C arm and accessories as per specification……..……

n) Craniotome and Micro Drill 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"**

(c) Service tax applicable for Annual Maintenance Charges shall be indicated separately. Otherwise it will be considered as included in the rates quoted.

Place :

Date :

Signature of Bidder.....……..

Name ……

Business Address ……

SECTION VIII : CONTRACT FORM

SECTION VIII: 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 IX : PERFORMANCE SECURITY FORM

SECTION IX: 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 X: PERFORMANCE STATEMENT

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

SECTION X

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 XI

(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. 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 of the Item and model**	**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 Signed before me

Chennai on this _____

Day 2009 and singed in

my presents (Notary Public)

* *The period between the date of installation and date of end user performance certificate (Not installation certificate) should be more than one year on the date of bid opening.*