GLOBAL TENDER ENQUIRY DOCUMENT

FOR PURCHASE OF MEDICAL EQUIPMENT

For and on behalf of

Pt. B.D. SHARMA UNIVERSITY OF HEALTH SCIENCES ROHTAK AND
Pt. B.D. SHARMA POST GRADUATE INSTITUTE OF MEDICAL SCIENCES, ROHTAK

BY

HLL LIFECARE LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)
Procurement & Consultancy Services Division
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SECTION I

NOTICE INVITING TENDERS (NIT)

Tender Enquiry No.: HLL/PCD/Rohtak/01/14-15 **Dated: 24.06.2014**

1. Procurement & Consultancy Services Division of HLL Lifecare Limited, for and on behalf of **Pt.B.D.Sharma University of Health Sciences Rohtak**, invites sealed tenders from eligible and qualified tenderers for supply of following Medical Equipment for Pt. B.D. Sharma Post Graduate Institute Of Medical Sciences, Rohtak.

Sl. No.	Name of Equipment	Total Qty.	EMD Amount (Rs.)
1	Monitors with Central Station	38+5	3,80,000
2	Multi Para Vital Sign Monitors with EtCo2 (Modular) and with AGM	16	1,92,000
3	Multi Para Vital Sign Monitors with EtCo2 (Moduler)	34	3,06,000
4	ICU Beds	79	3,16,000
5	ICU Invasive Ventilators	20	3,20,000
6	Non-Invasive Ventilators	23	2,30,000
7	Defibrillator with CPR Monitoring and TC Pacing	34	3,40,000
8	Infusion Pump (Volumetric)	118	1,18,000
9	Syringe Infusion Pump	188	1,20,000
10	Microprocessor Based Fully Automatic Vacuum Infiltration Biopsy Processing System (Tissue Processor)	1	60,000
11	Microprocessor Controlled Automatic Slide Stainer with Compatible Cover Slipper	1	90,000
12	Digital Controlled Fully Automatic Electrophoresis System with inbuilt Power Pack for Haemoglobin, Serum Protein Electrophoresis And Immuno Fixation	1	30,000
13	Mid-range Whole Body Colour Doppler	3	2,10,000
14	Portable Colour Doppler	3	90,000
15	Hemodialysis Machine	3	60,000
16	High Speed Drill & Cranial Stablization System for Neurosurgery	2	72,000
17	Digital Video EEG Machine	1	46,000
18	EMG/EP Machine for Electrophysiology Lab.	1	44,000
19	Endoscope & Colonoscope	2	1,00,000
20	ECG Machine (12 Lead)	11	66,000
21	Radiofrequency Ablation System for Treatment of Varicose Vein	1	30,000
22	Endobronchial Ultrasound System (EBUS) with Endoscope Reprocessor Unit	1	2,00,000

Sl. No.	Name of Equipment	Total Qty.	EMD Amount (Rs.)
23	Colour Doppler Echocardiography System with Advanced 2D Facility	1	70,000
24	Portable Colour Doppler Echocardiography System	1	40,000
25	Bronchoscopy Simulator	1	1,00,000
26	High End Colour Doppler	1	1,30,000
27	Holter Monitor with Four Recorders	1	90,000
28	Ceribral Function Monitor	4	48,000
29	Neonatal Cooling System	2	60,000
30	Scanning Laser Photocoagulator (Imported)	1	60,000
31	Optical Coherence Tomography (Imported)	1	80,000
32	Operating Microscope (Imported)	6	96,000
33	Pleura Videoscope	1	32,000
34	Endoscopy Teaching Models/Simulators for Endoscopy Teaching Lab	1	60,000
35	Carbon Dioxide Ultrapulse Laser (Fractional Co_2 Laser)	1	1,20,000
36	Diode Laser for Permanent Hair Reduction	1	60,000

(2)

Sl. no.	Description	Schedule
i.	Dates of sale of tender enquiry documents	25.06.2014 to 31.07.2014 on all working days between 10:00 Hrs. to 16:00 Hrs IST.
ii.	Place of sale of Tender Enquiry Documents	HLL Lifecare Limited, Procurement & Consultancy Services Divn B-14 A, Sector-62, Noida-201 307
iii.	Cost of the Tender Enquiry Document	Rs. 5,000/-
iv.	Pre Tender Meeting Date & Time	**03.07.2014**, 1100 Hrs IST
v.	Pre Tender Meeting Venue	Same as 2 (ii)
vi.	Closing date & time for receipt of Tender	**01.08.2014**, 1400 Hrs IST
vii.	Time and date of opening of Techno – Commercial tenders	**01.08.2014**, 1430 Hrs IST
viii	Venue of Opening of Techno Commercial Tender	Same as 2 (ii)

3. Interested tenderers may obtain further information about this requirement from the above office selling the documents. Tender Enquiry Documents may be purchased on payment of non-refundable fee of Rs. 5,000/- per set in the form of account payee Demand Draft/Pay

Order/Cashier's Cheque/Banker's Cheque, drawn on a scheduled bank in India, in favour of **"HLL Lifecare Limited"** payable at New Delhi**.**

4. If requested, the Tender Enquiry Documents will be mailed by Registered Post/Speed Post to the domestic tenderers and by international airmail to the foreign tenderers, for which extra expenditure per set will be Rs 100/- for domestic post and Rs 500/- for international airmail. The tenderer is to add the applicable postage cost in the non-refundable fee mentioned in Para 3 above.
5. Tenderer may also download the tender enquiry documents from the web site www.lifecarehll.com or www.eprocure.gov.in/cppp or www.uhsr.ac.in and submit its tender by utilizing the downloaded document, along with the required non-refundable fee as mentioned in Para 3 above.
6. All prospective tenderers may attend the Pre Tender meeting. The venue, date and time indicated in the Para 2 above.
7. Tenderers shall ensure that their tenders, complete in all respects, are dropped in the Tender Box located at **HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh** on or before the closing date and time indicated in the Para 2 above, failing which the tenders will be treated as late and rejected.
8. In the event of any of the above mentioned dates being declared as a holiday /closed day for the purchase organisation, the tenders will be sold/received/opened on the next working day at the appointed time.
9. The Tender Enquiry Documents are not transferable.

Head (P&CD)
HLL Lifecare Limited

SECTION - II

GENERAL INSTRUCTIONS TO TENDERERS (GIT)
CONTENTS

GENERAL INSTRUCTIONS TO TENDERERS (GIT)

A. PREAMBLE

1. Definitions and Abbreviations

1.1 The following definitions and abbreviations, which have been used in these documents shall have the meanings as indicated below:

1.2. Definitions:

(i) "Purchaser" means **Pt.B.D.Sharma University of Health Sciences Rohtak**

(ii) "Tender" means Bids / Quotation / Tender received from a Firm / Tenderer / Bidder.

(iii) "Tenderer" means Bidder/ the Individual or Firm submitting Bids / Quotation / Tender

(iii) "Supplier" means the individual or the firm supplying the goods and services as incorporated in the contract.

(iv) "Goods" means the articles, material, commodities, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, medical equipment, industrial plant etc. which the supplier is required to supply to the purchaser under the contract.

(v) "Services" means services allied and incidental to the supply of goods, such as transportation, installation, commissioning, provision of technical assistance, training, after sales service, maintenance service and other such obligations of the supplier covered under the contract.

(vi) "Earnest Money Deposit" (EMD) means Bid Security/ monetary or financial guarantee to be furnished by a tenderer along with its tender.

(vii) "Contract" means the written agreement entered into between the purchaser and/or consignee and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.

(viii) "Performance Security" means monetary or financial guarantee to be furnished by the successful tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit.

(ix) "Consignee" means the Hospital/Institute/Medical College/ person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of despatch to another person as provided in the Contract then that "another" person is the consignee, also known as ultimate consignee.

(x) "Specification" means the document/standard that prescribes the requirement with which goods or service has to conform.

(xi) "Inspection" means activities such as measuring, examining, testing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement to determine conformity.

(xii) "Day" means calendar day.

1.3 Abbreviations:

(i) "TE Document" means Tender Enquiry Document

(ii) "NIT" means Notice Inviting Tenders.

(iii) "GIT" means General Instructions to Tenderers
(iv) "SIT" means Special Instructions to Tenderers
(v) "GCC" means General Conditions of Contract
(vi) "SCC" means Special Conditions of Contract
(vii) "DGS&D" means Directorate General of Supplies and Disposals
(viii) "NSIC" means National Small Industries Corporation
(ix) "PSU" means Public Sector Undertaking
(x) "CPSU" means Central Public Sector Undertaking
(xi) "LSI" means Large Scale Industry
(xii) "SSI" means Small Scale Industry
(xiii) "LC" means Letter of Credit
(xiv) "DP" means Delivery Period
(xv) "BG" means Bank Guarantee
(xvi) "ED" means Excise Duty
(xvii) "CD" means Custom Duty
(xviii) "VAT" means Value Added Tax
(xix) "CENVAT" means Central Value Added Tax
(xx) "CST" means Central Sales Tax
(xxi) "RR" means Railway Receipt
(xxii) "BL" means Bill of Lading
(xxiii) "FOB" means Free on Board
(xxiv) "FCA" means Free Carrier
(xxv) "FOR" means Free On Rail
(xxvi) "CIF" means Cost, Insurance and Freight
(xxvii) "CIP (Destinations)" means Carriage and Insurance Paid up to named port of destination. Additionally the Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.
(xxviii) "DDP" means Delivery Duty Paid named place of destination (consignee site)
(xxix) "INCOTERMS" means International Commercial Terms as on the date of Tender Opening
(xxx) "MOH&FW" means Ministry of Health & Family Welfare, Government of India
(xxxi) "Dte. GHS" means Directorate General and Health Services, MOH&FW.
(xxxii) "CMC" means Comprehensive maintenance Contract (labour, spare and preventive maintenance)
(xxxiii) "RT" means Re-Tender.
(xxxiv) Pt.B.D.S UHS means Pt.B.D.Sharma University of Health Sciences Rohtak.
(xxxv) Pt.B.D.S PGIMS means Pt.B.D.Sharma Postgraduate Institute of Medical Sciences Rohtak (Haryana) India.
(xxxvi) MOU means Memorandum of Understanding between Pt.B.D.S UHS and Pt.B.D.S PGIMS AND M/s. HLL Lifecare Limited Noida India.

2. Introduction

2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section – VI – "List of Requirements", which also indicates, *interalia,* the required delivery schedule, terms and place of delivery.

2.2 This section (Section II - "General Instruction Tenderers") provides the relevant information as well as instructions to assist the prospective tenderers in preparation and submission of tenders. It also includes the mode and procedure to be adopted by the

purchaser for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract.

2.3 The tenderers shall also read the Special Instructions to Tenderers (SIT) related to this purchase, as contained in Section III of these documents and follow the same accordingly. Whenever there is a conflict between the GIT and the SIT, the provisions contained in the SIT shall prevail over those in the GIT.

2.4 Before formulating the tender and submitting the same to the purchaser, the tenderer should read and examine all the terms, conditions, instructions, checklist etc. contained in the TE documents. Failure to provide and/or comply with the required information, instructions etc. incorporated in these TE documents may result in rejection of its tender.

3. Availability of Funds

3.1 Expenditure to be incurred for the proposed purchase will be met from the funds available with the purchaser/consignee.

4. Language of Tender

4.1 The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the purchaser, shall be written in the English language, unless otherwise specified in the Tender Enquiry. However, the language of any printed literature furnished by the tenderer in connection with its tender may be written in any other language provided the same is accompanied by an English translation and, for purposes of interpretation of the tender, the English translation shall prevail**.**

4.2 The tender submitted by the tenderer and all subsequent correspondence and documents relating to the tender exchanged between the tenderer and the purchaser, may also be written in the Hindi language, provided that the same are accompanied by English translation, in which case, for purpose of interpretation of the tender etc, the English translations shall prevail.

5. Eligible Tenderers

5.1 This invitation for tenders is open to all suppliers who fulfil the eligibility criteria specified in these documents.

6. Eligible Goods and Services

6.1 All goods and related services to be supplied under the contract shall have their origin in India or any other country with which India has not banned trade relations. The term "origin" used in this clause means the place where the goods are mined, grown, produced, or manufactured or from where the related services are arranged and supplied.

7. Tendering Expense

7.1 The tenderer shall bear all costs and expenditure incurred and/or to be incurred by it in connection with its tender including preparation, mailing and submission of its tender and for subsequent processing the same. The purchaser will, in no case be responsible or liable for any such cost, expenditure etc regardless of the conduct or outcome of the tendering process.

B. TENDER ENQUIRY DOCUMENTS

8. Content of Tender Enquiry Documents

8.1 In addition to Section I – "Notice inviting Tender" (NIT), the TE documents include:

- Section II – General Instructions to Tenderers (GIT)

- Section III – Special Instructions to Tenderers (SIT)
- Section IV – General Conditions of Contract (GCC)
- Section V – Special Conditions of Contract (SCC)
- Section VI – List of Requirements
- Section VII – Technical Specifications
- Section VIII – Quality Control Requirements
- Section IX – Qualification Criteria
- Section X – Tender Form
- Section XI – Price Schedules
- Section XII – Questionnaire
- Section XIII – Bank Guarantee Form for EMD
- Section XIV – Manufacturer's Authorisation Form
- Section XV – Bank Guarantee Form for Performance Security/CMC Security
- Section XVI – Contract Forms A & B
- Section XVII – Proforma of Consignee Receipt Certificate
- Section XVIII – Proforma of Final Acceptance Certificate by the consignee
- Section XIX – Instructions from Ministry of Shipping/ Surface Transport (Annexure 1 & 2)
- Section XX – Check List for the Tenderers
- Section XXI – Consignee List

8.2 The relevant details of the required goods and services, the terms, conditions and procedure for tendering, tender evaluation, placement of contract, the applicable contract terms and, also, the standard formats to be used for this purpose are incorporated in the above-mentioned documents. The interested tenderers are expected to examine all such details etc to proceed further.

9. Amendments to TE documents

9.1 At any time prior to the deadline for submission of tenders, the purchaser may, for any reason deemed fit by it, modify the TE documents by issuing suitable amendment(s) to it.

9.2 Such an amendment will be notified in writing by registered/speed post or by fax/telex/e-mail, followed by copy of the same by registered post to all prospective tenderers, which have received the TE documents and will be binding on them.

9.3 In order to provide reasonable time to the prospective tenderers to take necessary action in preparing their tenders as per the amendment, the purchaser may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.

10. Clarification of TE documents

10.1 A tenderer requiring any clarification or elucidation on any issue of the TE documents may take up the same with the purchaser in writing. The purchaser will respond in writing to such request provided the same is received by the purchaser not later than fifteen days (unless otherwise specified in the SIT) prior to the prescribed date of submission of tender.

C. PREPARATION OF TENDERS

11. Documents Comprising the Tender

11.1 The **Two Tender System**, i.e. "Techno – Commercial Tender" and "Price Tender" prepared by the tenderer shall comprise the following:

A) <u>Techno – Commercial Tender (Un priced Tender)</u>

i) Earnest money furnished in accordance with GIT clause 19.1 alternatively, documentary evidence as per GIT clause 19.2 for claiming exemption from payment of earnest money.
ii) Tender Form as per Section X.
iii) Documentary evidence, as necessary in terms of clauses 5 and 17 establishing that the tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.
iv) Tenderer/Agent who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorisation Form. **While giving authorization to agent, to quote on their behalf, manufacturer has to give the reasons for not quoting directly against this tender.**
v) Power of Attorney in favour of signatory of TE documents and signatory of Manufacturer's Authorisation Form.
vi) Documents and relevant details to establish in accordance with GIT clause 18 that the goods and the allied services to be supplied by the tenderer conform to the requirement of the TE documents.
vii) Performance Statement as per section IX along with relevant copies of orders and end users' satisfaction certificate.
viii) Price Schedule(s) as per Section XI filled up with all the details including Make, Model etc. of the goods offered with prices blank (without indicating any prices).
ix) Certificate of Incorporation in the country of origin.
x) Checklist as per Section XX.

B) Price Tender:

The information given at clause no. 11.1 A) viii) above should be reproduced with the prices indicated.

Note:
1. All pages of the Tender should be page numbered and indexed.
2. It is the responsibility of tenderer to go through the TE document to ensure furnishing all required documents in addition to above, if any.

11.2 The authorized signatory of the tenderer must sign the tender duly stamped at appropriate places and initial all the remaining pages of the tender. Individuals signing the tender or other documents connected with a contract must specify whether he signs as:

i. A 'Sole Proprietor' of the firm or constituted attorney of such Sole Proprietor.
ii. A partner of the firm ,if it be a partnership , in which case he must have authority to quote & to refer to arbitration dispute concerning the business of the partnership either by virtue of the partnership agreement or a power of attorney;
iii. Constituted attorney of the firm if it is a company.

Note:
1. In case of (ii) above, a copy of the partnership agreement or general power of attorney, in either ,case, attested by a Notary Public should be furnished, or affidavit on stamped paper of all the partners admitting execution of the partnership agreement or the general power of attorney should be furnished.
2. In case of the partnership firms, where no authority to refer disputes concerning the business of the partnership has been conferred on any partner, the tender and all other related documents must be signed by every partner of the firm.
3. A person signing the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrantee that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no

authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages

11.3 A tender, which does not fulfil any of the above requirements and/or gives evasive information/reply against any such requirement, shall be liable to be ignored and rejected.

11.4 Tender sent by fax/telex/cable/electronically shall be ignored.

12. Tender currencies

12.1 The tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees.

12.2 For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only if such services are to be performed /undertaken in India. Commission for Indian Agent, if any and if payable shall be indicated in the space provided for in the price schedule and will be payable in Indian Rupees only.

12.3 Tenders, where prices are quoted in any other way shall be treated as non -responsive and rejected.

13 Tender Prices

13.1 The Tenderer shall indicate on the Price Schedule provided under Section XI all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a tenderer, same should be clarified as "NA" by the tenderer.

13.2 If there is more than one schedule in the List of Requirements, the tenderer has the option to submit its quotation for any one or more schedules and, also, to offer special discount for combined schedules. However, while quoting for a schedule, the tenderer shall quote for the complete requirement of goods and services as specified in that particular schedule.

13.3 The quoted prices for goods offered from within India and that for goods offered from abroad are to be indicated separately in the applicable Price Schedules attached under Section XI.

13.4 While filling up the columns of the Price Schedule, the following aspects should be noted for compliance:

13.4.1 For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:

a) the price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, CST VAT, CENVAT, Custom Duty, Excise Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;
b) any sales or other taxes and any duties including excise duty, which will be payable on the goods in India if the contract is awarded;
c) charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage) would be borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;
d) the price of Incidental Services, as mentioned in List of Requirements and Price Schedule;

e) the prices of Turnkey (if any), a s mentioned in List of Requirements, Technical Specification and Price Schedule; and
f) the price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.4.2 For goods offered from abroad, the prices in the corresponding price schedule shall be entered separately in the following manner:

a) The price of goods quoted FOB/FCA port of shipment, as indicated in the List of Requirements and Price Schedule;
b) The amount of freight and insurance
c) the price of goods quoted CIP (name port of destination) in India as indicated in the List of Requirements, Price Schedule and Consignee List;
d) Deleted
e) the charges for Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery. Other local costs and Incidental costs, as specified in the List of Requirements and Price Schedule;
f) the charges for Incidental Services, as in the List of Requirements and Price Schedule;
g) the prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
h) the price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.5 Additional information and instruction on Duties and Taxes:

13.5.1 If the Tenderer desires to ask for excise duty, sales tax/ VAT, Service Tax, Works Contract Tax etc. to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

13.5.2 Excise Duty:

a) If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of excise duty will be entertained after the opening of tenders.
b) If a Tenderer chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the tenderer must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.
c) Subject to sub clauses 13.5.2 (a) & (b) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

13.5.3 Sales Tax:

If a tenderer asks for sales tax/ VAT, Service Tax and Works Contract Tax to be paid extra, the rate and nature of sales tax applicable should be shown separately. The sales tax

/ VAT, Service Tax and Works Contract Tax will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction of sale is legally liable to sales tax / VAT, Service Tax and Works Contract Tax and is payable as per the terms of the contract. If any refund of Tax is received at a later date, the Supplier must return the amount forth-with to the purchaser.

13.5.4 Octroi Duty and Local Duties & Taxes:

Normally, goods to be supplied to government departments against government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned government department. Keeping this in view, the supplier shall ensure that the stores to be supplied by the supplier against the contract placed by the purchaser are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the purchaser. The purchaser should issue the certificate to the supplier within 21 days from the date of receipt of request from the supplier.
However, if a local body still insists upon payment of such local duties and taxes, the same should be paid by the supplier to the local body to avoid delay in supplies and possible demurrage charges and obtain a receipt for the same. The supplier should forward the receipt obtained for such payment to the purchaser to enable the purchaser reimburse the supplier and take other necessary action in the matter.

13.5.5 Customs Duty:

The Purchaser will pay the Customs duty wherever applicable.

13.6 For transportation of imported goods offered from abroad, relevant instructions as incorporated under GCC Clause 10 shall be followed.

13.7 For insurance of goods to be supplied, relevant instructions as provided under GCC Clause 11 shall be followed.

13.8 Unless otherwise specifically indicated in this TE document, the terms FCA, FOB, FAS, CIF, CIP, DDP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris

13.9 The need for indication of all such price components by the tenderers, as required in this clause (viz., GIT clause 13) is for the purpose of comparison of the tenders by the purchaser and will no way restrict the purchaser's right to award the contract on the selected tenderer on any of the terms offered.

14. Indian Agent

14.1 If a foreign tenderer has engaged an agent in India in connection with its tender, the foreign tenderer, in addition to indicating Indian agent's commission, if any, in a manner described under GIT sub clause 12.2 above, shall also furnish the following information:

a) The complete name and address of the Indian Agent and its permanent income tax account number as allotted by the Indian Income Tax authority.
b) The details of the services to be rendered by the agent for the subject requirement.
c) Details of Service outlets in India, nearest to the consignee(s), to render services during Warranty and CMC period.
d) A copy of agreement between the Agent & their principal detailing the terms & conditions as well as services and after sales services as above to be rendered by the

agent and the precise relationship between them and their mutual interest in the business as laid out in section VII (Technical specifications).

e) Principal/ manufacturer's original proforma invoice with the price bid

15. Firm Price

15.1 Unless otherwise specified in the SIT, prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account.

15.2 However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated in GIT clause 13 will apply.

16. Alternative Tenders

16.1 Alternative Tenders are not permitted.

16.2 However the Tenderers can quote alternate models meeting the tender specifications of same manufacturer with single EMD.

16.3 If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product. In a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

17 Documents Establishing Tenderer's Eligibility and Qualifications

17.1 Pursuant to GIT clause 11, the tenderer shall furnish, as part of its tender, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its tender is accepted.

17.2 The documentary evidence needed to establish the tenderer's qualifications shall fulfil the following requirements:

a) in case the tenderer offers to supply goods, which are manufactured by some other firm, the tenderer has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The tenderer shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XIV in this document.

b) the tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.

c) in case the tenderer is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.

18. Documents establishing good's Conformity to TE document.

18.1 The tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified by the purchaser in the TE documents. For this purpose the tenderer shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the

purchaser in the TE documents to establish technical responsiveness of the goods and services offered in its tender.

18.2 In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the tenderer, the tenderer shall list out the same in a chart form without ambiguity and provide the same along with its tender.

18.3 If a tenderer furnishes wrong and/or misguiding data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

19. Earnest Money Deposit (EMD)

19.1 Pursuant to GIT clauses 8.1 and 11.1 A (i) the tenderer shall furnish along with its tender, earnest money for amount as shown in the List of Requirements. The earnest money is required to protect the purchaser against the risk of the tenderer's unwarranted conduct as amplified under sub-clause 19.7 below.

19.2 The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation, New Delhi/ Director Supplies & Disposals Haryana Chandigarh / other agencies authorized by the Govt. of Haryana for the said purpose for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. In case the tenderer falls in these categories, it should furnish copy of its valid registration details with the said agencies.

19.3 The earnest money shall be denominated in Indian Rupees or equivalent currencies as per GIT clause 12.2. The earnest money shall be furnished in one of the following forms:

i) Account Payee Demand Draft
ii) Banker's cheque and
iii) Bank Guarantee

19.4 The demand draft or banker's cheque shall be drawn on any commercial bank in India or country of the tenderer, in favour of the "HLL Lifecare Limited" payable at New Delhi. In case of bank guarantee, the same is to be provided from any commercial bank in India or country of the tenderer as per the format specified under Section XIII in these documents.

19.5 The earnest money shall be valid for a period of forty-five (45) days beyond the validity period of the tender. As validity period of Tender as per Clause 20 of GIT is 120 days, the EMD shall be valid for 165 days from Techno – Commercial Tender opening date.

19.6 Unsuccessful tenderers' earnest money will be returned to them without any interest, after expiry of the tender validity period, but not later than thirty days after conclusion of the resultant contract. Successful tenderer's earnest money will be returned without any interest, after receipt of performance security from that tenderer.

19.7 Earnest Money is required to protect the purchaser against the risk of the Tenderer's conduct, which would warrant the forfeiture of the EMD. Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The successful tenderer's earnest money will be forfeited without prejudice to other rights of Purchaser if it fails to furnish the required performance security within the specified period.

19.8 In the case of Bank Guarantee furnished from banks outside India (i.e. foreign Banks), it should be authenticated and countersigned by any nationalised bank in India by way of back-to-back counter guarantee and the same should be submitted along with the bid.

20. Tender Validity

20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of 120 days (One hundred and twenty days) after the date of tender opening prescribed in the TE document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.

20.2 In exceptional cases, the tenderers may be requested by the purchaser to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by surface mail or by fax/ telex/cable followed by surface mail. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A tenderer, who may not agree to extend its tender validity after the expiry of the original validity period the EMD furnished by them shall not be forfeited.

20.3 In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for the purchaser, the tender validity shall automatically be extended up to the next working day.

21. Signing and Sealing of Tender

21.1 The tenderers shall submit their tenders as per the instructions contained in GIT Clause 11.

21.2 Unless otherwise mentioned in the SIT, a tenderer shall submit two copies of its tender marking them as "Original" and "Duplicate". Duplicate tenders may contain all pages including Technical Literature/Catalogues as per in Original tenders. Tenders are requested to submit tenders duly page numbered and in a binding form. **Tenders submitted in loose sheets will not be accepted.**

21.3 The original and duplicate copies of the tender shall either be typed or written in indelible ink and the same shall be signed by the tenderer or by a person(s) who has been duly authorized to bind the tenderer to the contract. The letter of authorization shall be by a written power of attorney, which shall also be furnished along with the tender.

21.4 All the copies of the tender shall be duly signed at the appropriate places as indicated in the TE documents and all other pages of the tender including printed literature, if any shall be initialled by the same person(s) signing the tender. The tender shall not contain any erasure or overwriting, except as necessary to correct any error made by the tenderer and, if there is any such correction; the same shall be initialled by the person(s) signing the tender.

21.5 The tenderer is to seal the original and duplicate copy of the tender in separate envelopes, duly marking the same as "Original", "Duplicate", and writing the address of the purchaser and the tender reference number on the envelopes. The sentence "NOT TO BE OPENED" before _____ (The tenderer is to put the date & time of tender opening) are to be written on these envelopes. The inner envelopes are then to be put in a bigger outer envelope, which will also be duly sealed, marked etc. as above. If the outer envelope is not sealed and marked properly as above, the purchaser will not assume any responsibility for its misplacement, premature opening, late opening etc.

21.6 TE document seeks quotation following **two Tender System**, in two parts. First part will be known as **'Techno - Commercial Tender'**, and the second part **'Price Tender'** as specified in clause 11 of GIT. Tenderer shall seal **'Techno - Commercial Tender'** and **'Price Tender'** separately and covers will be suitably super scribed. Both these sealed covers shall be put in a bigger cover and sealed and procedure prescribed in Paras 21.1 to 21.5 followed.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

22.1 Unless otherwise specified, the tenderers are to deposit the tenders in the tender box kept for this purpose at **HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201 307, Uttar Pradesh**. In case of bulky tender, which cannot be put into tender box, the same shall be submitted by the tenderer by hand to **Head (P&CD)** or his nominee, **HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201 307, Uttar Pradesh**. The officer receiving the tender will give the tenderer an official receipt duly signed with date and time.

22.2 The tenderers must ensure that they deposit their tenders not later than the closing time and date specified for submission of tenders. It is the responsibility of the tenderer to ensure that their Tenders whether sent by post or by courier or by person, are dropped in the Tender Box by the specified clearing date and time. In the event of the specified date for submission of tender falls on / is subsequently declared a holiday or closed day for the purchaser, the tenders will be received up to the appointed time on the next working day.

23. Late Tender

23.1 A tender, which is received after the specified date and time for receipt of tenders will be treated as "late" tender and will be ignored.

24. Alteration and Withdrawal of Tender

24.1 The tenderer, after submitting its tender, is permitted to alter / modify its tender so long as such alterations / modifications are received duly signed, sealed and marked like the original tender, within the deadline for submission of tenders. Alterations / modifications to tenders received after the prescribed deadline will not be considered.

24.2 No tender should be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a tenderer withdraws the tender during this period, it will result in forfeiture of the earnest money furnished by the tenderer in its tender.

E. TENDER OPENING

25. Opening of Tenders

25.1 The purchaser will open the tenders at the specified date and time and at the specified place as indicated in the NIT.

In case the specified date of tender opening falls on / is subsequently declared a holiday or closed day for the purchaser, the tenders will be opened at the appointed time and place on the next working day.

25.2 Authorized representatives of the tenderers, who have submitted tenders on time may attend the tender opening provided they bring with them letters of authority from the corresponding tenderers.

The tender opening official(s) will prepare a list of the representatives attending the tender opening. The list will contain the representatives' names & signatures and corresponding tenderers' names and addresses.

25.3 Two - Tender system as mentioned in Para 21.6 above will be as follows. The **Techno - Commercial Tenders** are to be opened in the first instance, at the prescribed time and date as indicated in NIT. These Tenders shall be scrutinized and evaluated by the competent committee/ authority with reference to parameters prescribed in the TE

document. During the Techno - Commercial Tender opening, the tender opening official(s) will read the salient features of the tenders like brief description of the goods offered, delivery period, Earnest Money Deposit and any other special features of the tenders, as deemed fit by the tender opening official(s). Thereafter, in the second stage, the Price Tenders of only the Techno - Commercially acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation on a date notified after the evaluation of the Techno – Commercial tender. The prices, special discount if any of the goods offered etc., as deemed fit by tender opening official(s) will be read out.

F. SCRUTINY AND EVALUATION OF TENDERS

26. Basic Principle

26.1 Tenders will be evaluated on the basis of the terms & conditions already incorporated in the TE document, based on which tenders have been received and the terms, conditions etc. mentioned by the tenderers in their tenders. No new condition will be brought in while scrutinizing and evaluating the tenders.

27. Scrutiny of Tenders

27.1 The Purchaser will examine the Tenders 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 stamped and whether the Tenders are generally in order.

27.2 The Purchaser's determination of a Tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence

27.3 Deleted

27.4 The tenders will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the TE document. The tenders, which do not the meet the basic requirements, are liable to be treated as non-responsive and will be rejected.

27.5 The following are some of the important aspects, for which a tender shall be declared non-responsive during the evaluation and will be ignored;

(i) Deleted
(ii) Tender is unsigned.
(iii) Tender validity is shorter than the required period.
(iv) Required EMD (Amount, validity etc.)/ exemption documents have not been provided.
(v) Tenderer has quoted for goods manufactured by other manufacturer(s) without the required Manufacturer's Authorisation Form as per Section XIV.
(vi) Tenderer has not agreed to give the required performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V – "Special Conditions of Contract", for due performance of the contract.
(vii) Deleted
(viii) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.
(ix) Poor/ unsatisfactory past performance.
(x) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
(xi) Tenderer is not eligible as per GIT Clauses 5.1 & 17.1.
(xii) Tenderer has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.

(xiii) Tenderer has not agreed for the delivery terms and delivery schedule.

28. Minor Irregularity/Non-Conformity

During evaluation, if any minor irregularity and/or non-conformity is found in a tender, the tender inviting authority would convey its observation on such 'minor' issues to the tenderer by registered/speed post/courier/e-mail/fax etc. asking the tenderer to respond by a specified date. If the tenderer does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that tender will be liable to be ignored.

29 Discrepancies in Prices

29.1 If, in the price structure quoted by a tenderer, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless the purchaser feels that the tenderer has made a mistake in placing the decimal point in the unit price, in which case the total price as quoted shall prevail over the unit price and the unit price corrected accordingly.

29.2 If there is an error in a total price, which has been worked out through addition and/or subtraction of subtotals, the subtotals shall prevail and the total corrected; and

29.3 If there is a discrepancy between the amount expressed in words and figures, the amount in words shall prevail, subject to sub clause 29.1 and 29.2 above.

29.4 If, as per the judgement of the purchaser, there is any such arithmetical discrepancy in a tender, the same will be suitably conveyed to the tenderer by registered / speed post. If the tenderer does not agree to the observation of the purchaser, the tender is liable to be ignored.

30. Discrepancy between original and copies of Tender

30.1 In case any discrepancy is observed between the text etc. of the original copy and that in the other copies of the same tender set, the text etc. of the original copy shall prevail. Here also, the purchaser will convey its observation suitably to the tenderer by register / speed post and, if the tenderer does not accept the purchaser's observation, that tender will be liable to be ignored.

31. Qualification Criteria

31.1 Tenders of the tenderers, who do not meet the required Qualification Criteria prescribed in Section IX, will be treated as non - responsive and will not be considered further.

32. Conversion of tender currencies to Indian Rupees

32.1 In case the TE document permits the tenderers to quote their prices in different currencies, all such quoted prices of the responsive tenderers will be converted to a single currency viz., Indian Rupees for the purpose of equitable comparison and evaluation, as per the exchange rates established by the Reserve Bank of India for similar transactions, as on the date of 'Price Tender' opening.

33. Schedule-wise Evaluation

33.1 In case the List of Requirements contains more than one schedule, the responsive tenders will be evaluated and compared separately for each schedule. The tender for a schedule will not be considered if the complete requirements prescribed in that schedule are not included in the tender. However, as already mentioned in GIT sub clause 13.2, the tenderers have the option to quote for any one or more schedules and offer discounts for

combined schedules. Such discounts wherever applicable will be taken into account to determine the lowest evaluated cost for the purchaser in deciding the successful tenderer for each schedule, subject to tenderer(s) being responsive.

34. Comparison of Tenders

34.1 Unless mentioned otherwise in Section – III – Special Instructions to Tenderers and Section – VI – List of Requirements, the comparison of the responsive tenders shall be carried out on Delivery Duty Paid (DDP) consignee site basis. The quoted turnkey prices and CMC prices will also be added for comparison/ranking purpose for evaluation. **"Net Present value (NPV) of the Comprehensive Annual Maintenance charges (CMC) quoted for 6 years/ CMC period otherwise specified for that equipment after the warranty period shall be added to the bid price for evaluation and will be calculated after discounting the quoted price by a discounting factor of 10% per annum."**

35. Additional Factors and Parameters for Evaluation and Ranking of Responsive Tenders

35.1 Further to GIT Clause 34 above, the purchaser's evaluation of a tender will include and take into account the following:

i) In the case of goods manufactured in India or goods of foreign origin already located in India, sales tax & other similar taxes and excise duty & other similar duties, Service Tax, Works Contract Tax etc which will be contractually payable (to the tenderer), on the goods if a contract is awarded on the tenderer; and

ii) in the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the tenderer) on the goods if the contract is awarded on the tenderer.

35.2 The purchaser's evaluation of tender will also take into account the additional factors, if any, incorporated in SIT in the manner and to the extent indicated therein.

35.3 Deleted

36. Tenderer's capability to perform the contract

36.1 The purchaser, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the tenderer, whose tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily. If, there is more than one schedule in the List of Requirements, then, such determination will be made separately for each schedule.

36.2 The above-mentioned determination will, interalia, take into account the tenderer's financial, technical and production capabilities for satisfying all the requirements of the purchaser as incorporated in the TE document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the tenderer in its tender as well as such other allied information as deemed appropriate by the purchaser.

37. Contacting the Purchaser

37.1 From the time of submission of tender to the time of awarding the contract, if a tenderer needs to contact the purchaser for any reason relating to this tender enquiry and / or its tender, it should do so only in writing.

37.2 In case a tenderer attempts to influence the purchaser in the purchaser's decision on scrutiny, comparison & evaluation of tenders and awarding the contract, the tender of the tenderer shall be liable for rejection in addition to appropriate administrative actions being taken against that tenderer, as deemed fit by the purchaser.

G. AWARD OF CONTRACT

38. Purchaser's Right to accept any tender and to reject any or all tenders

38.1 The purchaser reserves the right to accept in part or in full any tender or reject any or more tender(s) without assigning any reason or to cancel the tendering process and reject all tenders at any time prior to award of contract, without incurring any liability, whatsoever to the affected tenderer or tenderers.

39. Award Criteria

39.1 Subject to GIT clause 38 above, the contract will be awarded to the lowest evaluated responsive tenderer decided by the purchaser in terms of GIT Clause 36.

40. Variation of Quantities at the Time of Award/ Currency of Contract

40.1 At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to twenty five (25) per cent, the quantity of goods and services mentioned in the schedule (s) in the "List of Requirements" (rounded of to next whole number) without any change in the unit price and other terms & conditions quoted by the tenderer.

40.2 If the quantity has not been increased at the time of the awarding the contract, the purchaser reserves the right to increase by up to twenty five (25) per cent, the quantity of goods and services mentioned in the contract (rounded of to next whole number) without any change in the unit price and other terms & conditions mentioned in the contract, during the currency of the contract.

41. Notification of Award

HLL will forward the purchase proposal with recommendation along with proof of rates reasonability based on supply orders placed to the Vendors by other Institutions in this regard for final sanction of Competent Authority to Pt.B.D.Sharma UHS Rohtak for placement of Notification of Award. On receipt of approval/sanction along with equivalent funds from client, HLL will place Notification of Award on behalf of client.

41.1 Before expiry of the tender validity period, the purchaser will notify the successful tenderer(s) in writing, by registered / speed post or by fax/ telex/cable (to be confirmed by registered / speed post) that its tender for goods & services, which have been selected by the purchaser, has been accepted, also briefly indicating therein the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful tenderer must furnish to the purchaser the required performance security within thirty days from the date of dispatch of this notification, failing which the EMD will forfeited and the award will be cancelled. Relevant details about the performance security have been provided under GCC Clause 5 under Section IV.

41.2 The Notification of Award shall constitute the conclusion of the Contract.

42. Issue of Contract

42.1 Promptly after notification of award, the Purchaser/Consignee will mail the contract form (as per Section XVI) duly completed and signed, in duplicate, to the successful tenderer by registered / speed post.

42.2 Within twenty one days from the date of the contract, the successful tenderer shall return the original copy of the contract, duly signed and dated, to the Purchaser/Consignee by registered / speed post.

42.3 The Purchaser/Consignee reserve the right to issue the Notification of Award consignee wise.

43. Non-receipt of Performance Security and Contract by the Purchaser/Consignee

43.1 Failure of the successful tenderer in providing performance security and / or returning contract copy duly signed in terms of GIT clauses 41 and 42 above shall make the tenderer liable for forfeiture of its EMD and, also, for further actions by the Purchaser/Consignee against it as per the clause 24 of GCC – Termination of default.

44. Return of E M D

44.1 The earnest money of the successful tenderer and the unsuccessful tenderers will be returned to them without any interest, whatsoever, in terms of GIT Clause 19.6.

45. Publication of Tender Result

45.1 The name and address of the successful tenderer(s) receiving the contract(s) will be mentioned in the notice board/bulletin/web site of the purchaser.

46. Corrupt or Fraudulent Practices

46.1 It is required by all concerned namely the Consignee/Tenderers/Suppliers etc to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Purchaser: -

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

(i) "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and

(ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;

(b) will reject a proposal for award if it determines that the Tenderer recommended for award has engaged in corrupt or fraudulent practices in competing for the contract in question;

(c) will declare a firm ineligible, either indefinitely or for a stated period of time, to be awarded a contract by the purchaser if it at any time determines that the firm has engaged in corrupt or fraudulent practices in competing for, or in executing the contract.

SECTION - III

SPECIAL INSTRUCTIONS TO TENDERERS (SIT)

Sl. No.	GIT Clause No.	Topic	SIT Provision	Page No.
A	1 to 7	Preamble	No Change	26
B	8 to 10	TE documents	No Change	26
C	11 to 21	Preparation of Tenders	No Change	26
D	22 to24	Submission of Tenders	No Change	26
E	25	Tender Opening	No Change	26
F	26 to 37	Scrutiny and Evaluation of Tenders	No Change	26
G	38 to 45	Award of Contract	No Change	26

SPECIAL INSTRUCTIONS TO TENDERERS (SIT)

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/substitute/supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

A **Preamble**

No Change

B **TE documents**

No Change

C **Preparation of Tenders**

No Change

D **Submission of Tenders**

No Change

E **Tender Opening**

No Change

F **Scrutiny and Evaluation of Tenders**

No Change

G **Award of Contract**

No Change

SECTION - IV

GENERAL CONDITIONS OF CONTRACT (GCC)
TABLE OF CLAUSES

GENERAL CONDITIONS OF CONTRACT (GCC)

1. Application

1.1 The General Conditions of Contract incorporated in this section shall be applicable for this purchase to the extent the same are not superseded by the Special Conditions of Contract prescribed under Section V, List of requirements under Section VI and Technical Specification under Section VII of this document.

2. Use of contract documents and information

2.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract or any provision thereof including any specification, drawing, sample or any information furnished by or on behalf of the purchaser in connection therewith, to any person other than the person(s) employed by the supplier in the performance of the contract emanating from this TE document. Further, any such disclosure to any such employed person shall be made in confidence and only so far as necessary for the purposes of such performance for this contract.

2.2 Further, the supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC sub-clause 2.1 above except for the sole purpose of performing this contract.

2.3 Except the contract issued to the supplier, each and every other document mentioned in GCC sub-clause 2.1 above shall remain the property of the purchaser and, if advised by the purchaser, all copies of all such documents shall be returned to the purchaser on completion of the supplier's performance and obligations under this contract.

3. Patent Rights

3.1 The supplier shall, at all times, indemnify and keep indemnified the purchaser, free of cost, against all claims which may arise in respect of goods & services to be provided by the supplier under the contract for infringement of any intellectual property rights or any other right protected by patent, registration of designs or trademarks. In the event of any such claim in respect of alleged breach of patent, registered designs, trademarks etc. being made against the purchaser, the purchaser shall notify the supplier of the same and the supplier shall, at his own expenses take care of the same for settlement without any liability to the purchaser.

4. Country of Origin

4.1 All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.

4.2 The word "origin" incorporated in this clause means the place from where the goods are mined, cultivated, grown, manufactured, produced or processed or from where the services are arranged.

4.3 The country of origin may be specified in the Price Schedule

5. Performance Security

5.1 Within fifteen (15) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum 30 months from the date of Notification of Award

5.2 The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:

It shall be in any one of the forms namely Account Payee Demand Draft or Fixed Deposit Receipt drawn from any Scheduled bank in India or Bank Guarantee issued by a Scheduled bank in India, in the prescribed form as provided in section XV of this document in favour of the Purchaser/Consignee. The validity of the Fixed Deposit receipt or Bank Guarantee will be for a period up to sixty (60) days beyond Warranty Period.

5.3 In the event of any failure /default of the supplier with or without any quantifiable loss to the government including furnishing of consignee wise Bank Guarantee for CMC security as per Proforma in Section XV, the amount of the performance security is liable to be forfeited. The Administration Department may do the needful to cover any failure/default of the supplier with or without any quantifiable loss to the Government.

5.4 In the event of any amendment issued to the contract, the supplier shall, within fifteen (15) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.

5.5 The supplier shall enter into Annual Comprehensive Maintenance Contract as per the 'Contract Form – B' in Section XVI with respective consignees, 3 (three) months prior to the completion of Warranty Period. The CMC will commence from the date of expiry of the Warranty Period.

5.6 Subject to GCC sub – clause 5.3 above, the Purchaser/Consignee will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations & after receipt of Consignee wise bank guarantee for CMC security in favour of Head of the Hospital/ Institute/ Medical College of the consignee as per the format in Section XV.

6. Technical Specifications and Standards

6.1 The Goods & Services to be provided by the supplier under this contract shall conform to the technical specifications and quality control parameters mentioned in 'Technical Specification' and 'Quality Control Requirements' under Sections VII and VIII of this document.

7. Packing and Marking

7.1 The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including transhipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.

7.2 The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and Quality Control Requirements under Sections VII and VIII and in SCC under Section V. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.

7.3 Packing instructions:

Unless otherwise mentioned in the Technical Specification and Quality Control Requirements under Sections VII and VIII and in SCC under Section V, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

a. contract number and date
b. brief description of goods including quantity

c. packing list reference number
d. country of origin of goods
e. consignee's name and full address and
f. supplier's name and address

8. Inspection, Testing and Quality Control

8.1 The purchaser and/or its nominated representative(s) will, without any extra cost to the purchaser, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The purchaser shall inform the supplier in advance, in writing, the purchaser's programme for such inspection and, also the identity of the officials to be deputed for this purpose. **If required, medical equipment for such inspections and testing preferably be brought at the cost of the vendor in the premises of Pt.B.D.Sharma University of Health Sciences Rohtak. If it is not feasible to bring the medical equipment for demonstration in UHS Rohtak then the said inspection/testing/demonstration should be arranged in National Capital Region of Delhi.** The cost towards the transportation, boarding and lodging will be borne by the purchaser and/or its nominated representative(s) for the first visit. In case the goods are rejected in the first instance and the supplier requests for re-inspection, and if same is accepted by purchaser/consignee/PSA/PA, all subsequent inspections shall be at the cost of the supplier. The expense will be to and fro Economy Airfare, Local Conveyance, Boarding and Lodging of the inspection team for the inspection period."

8.2 The Technical Specification and Quality Control Requirements incorporated in the contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.

8.3 If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, the purchaser's inspector may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet the specifications and standards, as required, free of cost to the purchaser and resubmit the same to the purchaser's inspector for conducting the inspections and tests again.

8.4 In case the contract stipulates pre-despatch inspection of the ordered goods at supplier's premises, the supplier shall put up the goods for such inspection to the purchaser's inspector well ahead of the contractual delivery period, so that the purchaser's inspector is able to complete the inspection within the contractual delivery period.

8.5 If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the purchaser under the terms & conditions of the contract.

8.6 The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.

"On rejection, the supplier shall remove such stores within 14 days of the date of intimation of such rejection from the consignee's premises. If such goods are not removed by the supplier within the period mentioned above, the purchaser/consignee may remove the rejected stores

and either return the same to the supplier at his risk and cost by such mode of transport as purchaser/consignee may decide or dispose of such goods at the suppliers risk to recover any expense incurred in connection with such disposals and also the cost of the rejected stores if already paid for."

8.7 Goods accepted by the purchaser/consignee and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause 15.

8.8 Principal/ Foreign supplier shall also have the equipment inspected by recognised/ reputed agency like SGS, Lloyd, Bereau Veritas, TUV prior to despatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.

9. Terms of Delivery

9.1 Goods shall be delivered by the supplier in accordance with the terms of delivery and as per the delivery period specified in the schedule of requirement. Please note that the time shall be the essence of the contract.

10. Transportation of Goods

10.1 Instructions for transportation of imported goods offered from abroad:

The supplier shall not arrange part-shipments and/or transhipment without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under CIP (Named port of destination) terms; the shipment shall be made by Indian flag vessel or by vessels belonging to the conference lines in which India is a member country through India's forwarding agents/coordinators. In case the forwarding agent/coordinators are unable to provide timely adequate space in Indian flag vessel or by vessels belonging to the conference lines, the supplier shall arrange shipment through any available vessel to adhere to the delivery schedule given in the contract.

In case of airlifting of imported goods offered from abroad, the same will be done only through the National Carrier i.e. Air India wherever applicable. In case the National Carrier is not available, any other airlines available for early delivery may be arranged.

10.2 Instructions for transportation of domestic goods including goods already imported by the supplier under its own arrangement:

In case no instruction is provided in this regard in the SCC, the supplier will arrange transportation of the ordered goods as per its own procedure.

11. Insurance:

11.1 Unless otherwise instructed in the SCC, the supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the following manner:

i) in case of supply of domestic goods on Consignee site basis, the supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured for an amount equal to 110% of the value of the goods from ware house to ware house (consignee site) on all risk basis . The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.

ii) in case of supply of the imported goods on CIP Named port of Destination Basis, the additional extended Insurance (local transportation and storage) would be borne by the Supplier from the port of entry to the consignee site for a period including 3 months beyond date of delivery for an amount equal to 110% of the overall expenditure to be incurred by the purchaser from ware house to ware house (consignee site) on all risk basis.

If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.

12. Spare parts

12.1 If specified in the List of Requirements and in the resultant contract, the supplier shall supply/provide any or all of the following materials, information etc. pertaining to spare parts manufactured and/or supplied by the supplier:

a) The spare parts as selected by the Purchaser/Consignee to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and

b) In case the production of the spare parts is discontinued:

i) Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and

ii) Immediately following such discontinuation, providing the Purchaser/Consignee, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/Consignee.

12.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumables and spares for the goods so that the same are used during warranty and CMC period.

13. Incidental services

13.1 Subject to the stipulation, if any, in the SCC (Section – V), List of Requirements (Section – VI) and the Technical Specification (Section – VII), the supplier shall be required to perform the following services.

i) Installation & commissioning, Supervision and Demonstration of the goods
ii) Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
iii) Training of Consignee's Doctors, Staff, operators etc. for operating and maintaining the goods
iv) Supplying required number of operation & maintenance manual for the goods

14. Distribution of Dispatch Documents for Clearance/Receipt of Goods

The supplier shall send all the relevant despatch documents well in time to the Purchaser/Consignee to enable the Purchaser/Consignee clear or receive (as the case may be) the goods in terms of the contract.
Unless otherwise specified in the SCC, the usual documents involved and the drill to be followed in general for this purpose are as follows.

A) For Domestic Goods, including goods already imported by the supplier under its own arrangement

Within 24 hours of despatch, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract, the complete details of despatch and also supply the following documents to them by registered post / speed post / courier (or as instructed in the contract):

(i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
(ii) Two copies of packing list identifying contents of each package;
(iii) Inspection certificate issued by the nominated Inspection agency, if any.
(iv) Certificate of origin (in case of imported goods);
(v) Insurance Certificate as per GCC Clause 11.
(vi) Manufacturers/Supplier's warranty certificate & In-house inspection certificate.

B) For goods imported from abroad

Within 24 hours of despatch, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract, the complete details of despatch and also supply the following documents to them by registered post / speed post (or as instructed in the contract). Any delay or demurrage occurred during the customs clearance on account of the non-availability of technical support/ clarifications /documents from the supplier shall be borne by the supplier:

(i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
(ii) Original and four copies of the negotiable clean, on-board Bill of Lading/Airway bill, marked freight pre paid and four copies of non-negotiable Bill of Lading/Airway bill;
(iii) Four Copies of packing list identifying contents of each package;
(iv) Insurance Certificate as per GCC Clause 11.
(v) Manufacturer's/Supplier's warranty certificate;
(vi) Inspection Certificate for the despatched equipments issued by recognized/ reputed agency like SGS, Lloyd, BEAUREU VERITAS, TUV prior to despatch
(vii) Manufacturer's own factory inspection report;
(viii) Certificate of origin
(ix) Port of Loading;
(x) Port of Discharge and
(xi) Expected date of arrival.

15. Warranty

15.1 The supplier warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials, manufacturing or workmanship or from any act or omission of the supplier that may develop under normal use of the supplied goods under the conditions prevailing in India in Pt.B.D.Sharma UHS Rohtak and PGIMS Rohtak.

15.2 The **warranty** shall remain valid for the period as mentioned in the list of requirement/ General Technical specification, after the goods or any portion thereof as the case may be, have been delivered, installed and commissioned at the final destination.

a. No conditional warranty will be acceptable.
b. Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories and Turnkey work and it will also cover the following wherever applicable:-
   - Any kind of motor.
   - Plastic & Glass Parts against any manufacturing defects.
   - All kind of sensors.
   - All kind of coils, probes and transducers.
   - Printers and imagers including laser and thermal printers with all parts.
   - UPS including the replacement of batteries.
   - Air-conditioners
c. Replacement and repair will be under taken for the defective goods.
d. Proper marking has to be made for all spares for identification like printing of installation and repair dates.

15.3 In case of any claim arising out of this warranty, the Purchaser/Consignee shall promptly notify the same in writing to the supplier. The period of the warranty will be as per G.C.C clause number 15.2 above irrespective of any other period mentioned elsewhere in the bidding documents.

15.4 Upon receipt of such notice, the supplier shall, within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/goods thereafter. The penalty clause for non rectification will be applicable as per tender conditions

15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended till the completion of the original warranty period of the main equipment.

15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.

15.7 During Warranty period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the installation for preventive maintenance of the goods

15.8 The Purchaser/Consignee reserve the rights to enter into Annual Comprehensive Maintenance Contract between Consignee and the Supplier for the period as mentioned in Section VII, Technical Specifications after the completion of warranty period.

15.9 The supplier along with its Indian Agent and the CMC provider shall ensure continued supply of the spare parts for the machines and equipments supplied by them to the purchaser for 10 years from the date of installation and handing over.

15.10 The Supplier along with its Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipments/machines/goods etc. and shall always give the most competitive price for its machines/equipments supplied to the Purchaser/Consignee.

16. Assignment

16.1 The Supplier shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with the Purchaser's prior written permission.

17. Sub Contracts

17.1 The Supplier shall notify the Purchaser in writing of all sub contracts awarded under the contract if not already specified in its tender. Such notification, in its original tender or later, shall not relieve the Supplier from any of its liability or obligation under the terms and conditions of the contract.

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

17.3 Sub contracts shall also comply with the provisions of GCC Clause 4 ("Country of Origin").

18. Modification of contract

18.1 If necessary, the purchaser may, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:

a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser,
b) Mode of packing,
c) Incidental services to be provided by the supplier
d) Mode of despatch,
e) Place of delivery, and
f) Any other area(s) of the contract, as felt necessary by the purchaser depending on the merits of the case.

18.2 In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the supplier to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly. If the supplier doesn't agree to the adjustment made by the Purchaser/Consignee, the supplier shall convey its views to the Purchaser/Consignee within twenty-one days from the date of the supplier's receipt of the Purchaser's/Consignee's amendment / modification of the contract.

19. Prices

19.1 Prices to be charged by the supplier for supply of goods and provision of services in terms of the contract shall not vary from the corresponding prices quoted by the supplier in its tender and incorporated in the contract except for any price adjustment authorised in the SCC.

20. Taxes and Duties

20.1 Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery of the contracted goods to the purchaser.

20.2 Further instruction, if any, shall be as provided in the SCC.

21. Terms and Mode of Payment

21.1 Payment Terms

Payment shall be made subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract in the following manner.

A) Payment for Domestic Goods Or Foreign Origin Located Within India.

Payment shall be made in Indian Rupees as specified in the contract in the following manner:

a) On delivery:

75% payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents:

(i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
(ii) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee;
(iii) Two copies of packing list identifying contents of each package;
(iv) Inspection certificate issued by the nominated Inspection agency, if any.
(v) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;
(vi) Certificate of origin.

b) On Acceptance:

Balance 25% payment would be made against 'Final Acceptance Certificate' as per Section XVIII of goods to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise. FAC need to be issued by the designated consignee after installation, commissioning, testing and one to two weeks of successful trial run of the equipment.

B) Payment for Imported Goods:

Payment for foreign currency portion shall be made in the currency as specified in the contract in the following manner:

a) On Shipment:

Seventy Five (75)% of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of documents specified hereunder:

(i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
(ii) Original and four copies of the negotiable clean, on-board Bill of Lading/ Airway bill, marked freight pre paid and four copies of non-negotiable Bill of Lading/Airway bill;
(iii) Four Copies of packing list identifying contents of each package;
(iv) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;
(v) Manufacturer's/Supplier's warranty certificate;
(vi) Inspection certificate issued by the nominated inspection agency, if applicable as per contract;
(vii) Manufacturer's own factory inspection report and
(viii) Certificate of origin by the chamber of commerce of the concerned country;
(ix) Inspection Certificate for the despatched equipments issued by recognized/ reputed agency like SGS, Lloyd, BEAURU VARITUS and TUV prior to despatch.

b) On Acceptance:

Balance payment of 25% of net CIP price of goods would be made against 'Final Acceptance Certificate' as per Section XVIII to be issued by the consignees through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any. FAC need to be issued by the designated consignee after installation, commissioning, testing and one to two weeks of successful trail run of the equipment.

c) Payment of Indigenous Goods :

Payment of indigenous goods will be paid as per the applicable payment terms i.e. 75% on delivery and 25% on acceptance. Delivery of the indigenous goods should be in line with the imported equipment.

d) Payment of Incidental Costs till consignee site & Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) will be paid in Indian Rupees to the Indian Agent on proof of final installation, commission and acceptance of equipment by the consignee.

e) Payment of Indian Agency Commission:

Indian Agency commission will be paid to the manufacturer's agent in the local currency for an amount in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation.

C) Payment of Turnkey, if any:

Turnkey payment will be made as indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation.

D) Payment for Annual Comprehensive Maintenance Contract Charges:

The consignee will enter into CMC with the supplier at the rates as stipulated in the contract. The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by the consignee on receipt of bank guarantee for an amount equivalent to 2.5% of the cost of the equipment as per contract in the prescribed format given in Section XV valid till 2 months after expiry of entire CMC period.

21.2 The supplier shall not claim any interest on payments under the contract.

21.3 Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time.

21.4 Irrevocable & non – transferable LC shall be opened by the Purchaser. However, if the supplier requests specifically to open confirmed LC, the extra charges would be borne by the supplier. If LC is required to be extended and/or amended for reasons not attributable to the purchaser/consignee, the charges thereof shall be borne by the supplier.

21.5 The payment shall be made in the currency / currencies authorised in the contract.

21.6 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to respective consignees.

21.7 While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.

21.8 While claiming reimbursement of duties, taxes etc. (like sales tax, excise duty, custom duty) from the Purchaser/Consignee, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Purchaser/Consignee forthwith.

21.9 In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:

(a) The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
(b) Delay in supplies, if any, has been regularized.
(c) The contract price where it is subject to variation has been finalized.
(d) The supplier furnishes the following undertakings:

"I/We, _____ certify that I/We have not received back the Inspection Note duly receipted by the consignee or any communication from the purchaser or the consignee about non-receipt, shortage or defects in the goods supplied. I/We _____ agree to make good any defect or deficiency that the consignee may report within three months from the date of receipt of this balance payment.

22. Delivery

22.1 The supplier shall deliver the goods and perform the services under the contract within the time schedule specified by the Purchaser/Consignee in the List of Requirements and as incorporated in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed not later than the date (s) as specified in the contract.

22.2 Subject to the provision under GCC clause 26, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:

(i) imposition of liquidated damages,
(ii) forfeiture of its performance security and
(iii) termination of the contract for default.

22.3 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/Consignee in writing about the same and its likely duration and make a request to the Purchaser/Consignee for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/Consignee shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

22.4 When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, interalia contain the following conditions:

(a) The Purchaser/Consignee shall recover from the supplier, under the provisions of the clause 23 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.

(b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.

(c) But nevertheless, the Purchaser/Consignee shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.

22.5 The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the Purchaser/Consignee for extension of delivery period and obtain the same before despatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and / or any other expense related to such supply shall lie against the purchaser.

22.6 Passing of Property:

22.6.1 The property in the goods shall not pass to the purchaser unless and until the goods have been delivered to the consignee in accordance with the conditions of the contract.

22.6.2 Where there is a contract for sale of specific goods and the supplier is bound to do something to the goods for the purpose of putting them into a deliverable state the property does not pass until such thing is done.

22.6.3 Unless otherwise agreed, the goods remain at the supplier's risk until the property therein is transferred to the purchaser.

23. Liquidated damages

23.1 Subject to GCC clause 26, if the supplier fails to deliver or install /commission any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods, installation, commissioning and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract as per GCC 24.

During the above-mentioned delayed period of supply and / or performance, the conditions incorporated under GCC sub-clause 22.4 above shall also apply.

24. Termination for default

24.1 The Purchaser/Consignee, without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee), may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser/Consignee pursuant to GCC sub-clauses 22.3 and 22.4.

24.2 In the event of the Purchaser/Consignee terminates the contract in whole or in part, pursuant to GCC sub-clause 24.1 above, the Purchaser/Consignee may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the Purchaser/Consignee for the extra expenditure, if any, incurred by the Purchaser/Consignee for arranging such procurement.

24.3 Unless otherwise instructed by the Purchaser/Consignee, the supplier shall continue to perform the contract to the extent not terminated.

25. Termination for insolvency

25.1 If the supplier becomes bankrupt or otherwise insolvent, the purchaser reserves the right to terminate the contract at any time, by serving written notice to the supplier without any compensation, whatsoever, to the supplier, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Purchaser/Consignee.

26. Force Majeure

26.1 Notwithstanding the provisions contained in GCC clauses 22, 23 and 24, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling 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 which is not foreseeable and not brought about at the instance of , the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees , lockouts excluding by its management, and freight embargoes.

26.3 If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

26.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.

26.5 In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

27. Termination for convenience

27.1 The Purchaser/Consignee reserves the right to terminate the contract, in whole or in part for its (Purchaser's/Consignee 's) convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Purchaser/Consignee. The notice shall also indicate interalia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.

27.2 The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by the Purchaser/Consignee following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser/Consignee may decide:

a) To get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or

b) To cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

28. Governing language

28.1 The contract shall be written in English language following the provision as contained in GIT clause 4. All correspondence and other documents pertaining to the contract, which the parties exchange, shall also be written accordingly in that language.

29. Notices

29.1 Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable or telex or facsimile and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.

29.2 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

30. Resolution of disputes

30.1 If dispute or difference of any kind shall arise between the Purchaser/Consignee and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

30.2 Any dispute which cannot be settled amicably between the parties by mutual consultations shall be referred for arbitration in accordance with the Arbitration and Conciliation Act, 1996.

30.3 Venue of Arbitration: The venue of arbitration shall be New Delhi, India and the language of arbitration shall be English.

30.4 The courts at Delhi shall have the exclusive jurisdiction to decide upon disputes arising here from of the court will be New Delhi, India

31. Applicable Law

The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force.

32 Withholding and Lien in respect of sums claimed

Whenever any claim for payment arises under the contract against the supplier the purchaser shall be entitled to withhold and also have a lien to retain such sum from the security deposit or sum of money arising out of under any other contract made by the supplier with the purchaser, pending finalization or adjudication of any such claim.

It is an agreed term of the contract that the sum of money so withheld or retained under the lien referred to above ,by the purchaser, will be kept withheld or retained till the claim arising about of or under the contract is determined by the Arbitrator or by the competent court as the case may be ,and the supplier will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention.

33. General/ Miscellaneous Clauses

33.1 Nothing contained in this Contract shall be constructed as establishing or creating between the parties, i.e. the Supplier/its Indian Agent/CMC Provider on the one side and the Purchaser on the other side, a relationship of master and servant or principal and agent.

33.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.

33.3 The Supplier shall notify the Purchaser/Consignee /the Government of India of any material change would impact on performance of its obligations under this Contract.

33.4 Each member/constituent of the Supplier/its Indian Agent/CMC Provider, in case of consortium shall be **jointly and severally liable** to and responsible for all obligations towards the Purchaser Pt.B.D.Sharma UHS Rohtak and Pt.B.D.Sharma PGIMS Rohtak/Consignee/Government for performance of contract/services including that of its Associates/Sub Contractors under the Contract.

33.5 The Supplier/its Indian Agent/CMC Provider shall at all times, indemnify and keep indemnified the Purchaser/Government of India against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under CMC or the Contract.

33.6 The Supplier/its Agent/CMC Provider shall, at all times, indemnify and keep indemnified the Purchaser/Consignee/Government of India against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the supplier/its associate/affiliate etc.

33.7 All claims regarding indemnity shall survive the termination or expiry of the contract.

SECTION – V

SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below.

These Special Conditions will modify/substitute/supplement the corresponding (GCC) clauses.
Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

The period of warranty and CMC will be as mentioned in the list of requirement as per section VI of the tender enquiry.

SECTION - VI
LIST OF REQUIREMENTS

Part I

List of items with quantities, warranty & CMC period.

Sl. No.	Name of Equipment	Departments																			Total	Warranty Period (in years)	CMC Period (in years)
		Anaesthesia	Neurosurgery	Medicine + CCU	CTVS	EM.OT	Nephrology	Surgery & Surgical Oncology	Pulmonary & Critical Care	Radiology	Gastroenterology	Neurology	Pathology	Special Ward	PICU	Paediatric Medicine	Cardiology	Plastic Surgery	R.I.O.	Skin & VD	Chest & Repiratory Medicine			
1	Monitors with Central Station	8+1	6+1	12+1 (ICU)												12+2						38+5	2	6
2	Multi Para Vital Sign Monitors with EtCo2 (Modular) and with AGM	8			2	6																16	2	6
3	Multi Para Vital Sign Monitors with EtCo2 (Moduler)			24	4		4							2								34	2	6
4	ICU Beds		6	24	10			24+5 =29						2			8					79	2	6
5	ICU Invasive Ventilators			6				6						1	5		2					20	2	6
6	Non-Invasive Ventilators			6					6						2			3			6	23	2	6
7	Defibrillator with CPR Monitoring and TC Pacing	8	1	6+2 =8		2+1 =3		6+1 =7	1					2			4					34	2	6
8	Infusion Pump (Volumetric)	40		24	10			24	20													118	2	6
9	Syringe Infusion Pump	40	10	24	10	5		24	40						10		20	5				188	2	6

Sl. No.	Name of Equipment	Departments																			Total	Warranty Period (in years)	CMC Period (in years)
		Anaesthesia	Neurosurgery	Medicine + CCU	CTVS	EM.OT	Nephrology	Surgery & Surgical Oncology	Pulmonary & Critical Care	Radiology	Gastroenterology	Neurology	Pathology	Special Ward	PICU	Paediatric Medicine	Cardiology	Plastic Surgery	R.I.O.	Skin & VD	Chest & Repiratory Medicine			
10	Microprocessor Based Fully Automatic Vacuum Infiltration Biopsy Processing System (Tissue Processor)												1									1	2	6
11	Microprocessor Controlled Automatic Slide Stainer with Compatible Cover Slipper												1									1	2	6
12	Digital Controlled Fully Automatic Electrophoresis System with inbuilt Power Pack for Haemoglobin, Serum Protein Electrophoresis And Immuno Fixation												1									1	2	6
13	Mid-range Whole Body Colour Doppler									3												3	2	6
14	Portable Colour Doppler									2						1						3	2	6
15	Hemodialysis Machine	1		1					1													3	2	6
16	High Speed Drill & Cranial Stablization System for Neurosurgery		1					1														2	2	6
17	Digital Video EEG Machine											1										1	2	6

Sl. No.	Name of Equipment	Departments																			Total	Warranty Period (in years)	CMC Period (in years)
		Anaesthesia	Neurosurgery	Medicine + CCU	CTVS	EM.OT	Nephrology	Surgery & Surgical Oncology	Pulmonary & Critical Care	Radiology	Gastroenterology	Neurology	Pathology	Special Ward	PICU	Paediatric Medicine	Cardiology	Plastic Surgery	R.I.O.	Skin & VD	Chest & Repiratory Medicine			
18	EMG/EP Machine for Electrophysiology Lab.											1										1	2	6
19	Endoscope & Colonoscope							1			1											2	2	6
20	ECG Machine (12 Lead)			7													4					11	2	6
21	Radiofrequency Ablation System for Treatment of Varicose Vein							1														1	2	6
22	Endobronchial Ultrasound System (EBUS) with Endoscope Reprocessor Unit								1													1	2	6
23	Colour Doppler Echocardiography System with Advanced 2D Facility			1																		1	2	6
24	Portable Colour Doppler Echocardiography System			1																		1	2	6
25	Bronchoscopy Simulator								1													1	2	6
26	High End Colour Doppler									1												1	2	6

Sl. No.	Name of Equipment	Departments																			Total	Warranty Period (in years)	CMC Period (in years)
		Anaesthesia	Neurosurgery	Medicine + CCU	CTVS	EM.OT	Nephrology	Surgery & Surgical Oncology	Pulmonary & Critical Care	Radiology	Gastroenterology	Neurology	Pathology	Special Ward	PICU	Paediatric Medicine	Cardiology	Plastic Surgery	R.I.O.	Skin & VD	Chest & Repiratory Medicine			
27	Holter Monitor with Four Recorders																1					1	2	6
28	Ceribral Function Monitor															4						4	2	6
29	Neonatal Cooling System															2						2	2	6
30	Scanning Laser Photocoagulator (Imported)																		1			1	2	6
31	Optical Coherence Tomography (Imported)																		1			1	2	6
32	Operating Microscope (Imported)																		6			6	2	6
33	Pleura Videoscope																				1	1	2	6
34	Endoscopy Teaching Models/Simulators for Endoscopy Teaching Lab																				1	1	2	6
35	Carbon Dioxide Ultrapulse Laser (Fractional Co_2 Laser)																			1		1	2	6
36	Diode Laser for Permanent Hair Reduction																			1		1	2	6

Part II: Required Delivery Schedule:

a) For Indigenous goods or for imported goods if supplied from India:

75 days from date of Notification of Award to delivery at consignee site. The date of delivery will be the date of delivery at consignee site. Tenderers may quote earliest delivery period.

Installation and commissioning shall be done within 45 days of receipt of the stores/ goods at site or within 45 days of handing over the site for installation, whichever is later.

b) For Imported goods directly from foreign:

90 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Tenderers may quote the earliest delivery period).
Installation and commissioning shall be done within 45 days of receipt of the stores/ goods at site or within 45 days of handing over the site for installation, whichever is later.

For delayed delivery and/ or installation and commissioning liquidated damages will get applied as per GCC clause 23.

Part III: Scope of Incidental Services:

Installation & Commissioning, Supervision, Demonstration, Trial run and Training etc. as specified in GCC Clause 13

Part IV:

Turnkey (if any) as per details in Technical Specification.

Part V:

Warranty period as per details in general technical specification and as specified in Part I above. Warranty period will start from the date of installation, commissioning and acceptance or after 6 (six) months from the date of last shipment/dispatch, whichever is earlier.
Comprehensive Maintenance Contract (CMC) as per details in Technical Specification as specified in part I above.

Part VI:

Required Terms of Delivery and Destination.

a) For Indigenous goods or for imported goods if supplied from India:

At Consignee Site.

b) For Imported goods directly from abroad:

The foreign tenderers are required to quote their rates on CIP Named Port of Destination Basis giving breakup of the price as per the Proforma prescribed in the Price Schedule. Purchaser will place the order on CIP Named Port of Destination basis.

The shipping arrangements shall be made in accordance with the instruction of Ministry of Shipping & Transport, New Delhi, India as detailed in Annexure 1 at Section XIX.

Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.

Destination/Consignee details are given in Section XXI

Section – VII
Technical Specifications

Item sl. no. 1

Monitors with Central Station

1 **Advanced high end modular patient monitor having integrated non-invasive, invasive measurement & features suitable for neonate, pediatrics & adult patients.**
2 **Monitor must have bright, highly visible minimum 15" or more color TFT display with full touch screen facility.**
3 **Monitor must have the facility to display min 12 waveform or more, along with related numerical parameters on single screen.**
4 **Deleted**
5 **Monitors must be able to monitor ECG, SpO2, NIBP, Respiration, dual temp, dual IBP, modular ETCO2 and minimally invasive Continuous Cardiac Output.**
6 **Monitor must be ready to connect for CO (Thermodilution), BIS/Entropy, NMT, ICP monitoring, three IBP, 4 ch EEG, module.**
7 **Monitor must have advanced arrhythmia detection and ST Analysis as standard feature.**
8 System must have minimum 24 hours review data including graphical and tabular trends, arrhythmia event recalls, alarms. Full disclosure for user selectable waveform, hemo and lung trends.
9 Monitor must have the time linked review function. Monitor must show the waveforms for the time when the arrhythmia occurred in case of arrhythmia recall.
10 **Monitor must have facility to display 12 lead ECG.**
11 Monitor should have ST segment calculations
12 Must have inbuilt rechargeable battery for minimum 1 hour operation.
13 Must have facility to hook up with network printer, at any point of time and able to take print any review data (Trends, Graphs, waveform full disclosure, arrhythmia recall etc.)
14 Monitor must be able to connect to central monitoring station and should use single network for all kind of networking with the central station or other hospital information system (HIS).
15 All Monitors should be able to communicate with each other and can display other patient monitor data without the need of central monitor.
16 **Monitor must be U.S. FDA or European CE approved.**
17 Each monitor to be supplied with following accessories and the rates must be quoted seperately and also binding for three years:
    a. 3 and 5 Lead ECG electrode cable 2 No. each
    b. Adult, Pediatirc and neonate SpO2 probe – 2 No. each(Ear lobe probes for neonates)**(Price to be quoted seperately)**
    c. NIBP cuffs for Adult, Pediatrics and neonates – 2 no each (of different sizes)**(Price to be quoted seperately)**
    d. Temp Probe – 2 Nos. (skin & esophageal one each)
    e. IBP connection cable – 03 Nos.
    f. IBP Disposable Pressure Transducers – 10 Nos
    g. ETCO2 sample line: 10 nos (if applicable)
18 Price of Optional items to be quote separately
19 **CNS of 21" LED to be provided with one laser printer and one 21" slave monitor.The cabling has to be done by bidder in the ICU One CNS with 6,8,12 monitors respectively**
20 **Added Para:-**
    a. One module each for ECG, SpO2,NIBP, Respiration, dual temp, 2IBP,EtCO2 for each monitor(independent/dual)

b. Two Modules of minimally invasive CO monitor for each set/dept
c. Two modules of NMT, EEG and spirometer, BIS/Entropy for each deptexcept medicine dept (Price of these modules to be quoted seperately)
d. EtCO2 values should be should be shown on main monitor screen.
e. the monitor should have monitor to monitor over view facility and data transfer over the network
f. OPTIONAL: web browsing facility to monitor each network monitor data through hospital LAN and through dial up facility from remote location.
g. Monitor should be remote web viewing enable.
h. OPTIONAL:To provide suitable facility for sending and receiving DICOM compatible radiological images like Ultrasound, X-ray etc to and from monitoring network to and from HIS, RIS etc for integration of various information (Optional-Price to be quoted separately)
i. It should be possible to see data of other patient on the monitor in the same ICU and patients of other ICU's or the monitor by LAN cabling. The cabling should be done by the bidder.
j. Demonstration is must.

k. Environmental factors

i. The unit shall be capable of operating continuously in ambient temperature of 0 -40deg C and relative humidity of 15-90%
ii. The unit shall be capable of being stored continuously in ambient temperature of -20 -60 deg C
iii. Shall meet IEC-60601-1-2:2001 General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/ECC; EMC directive.
iv. The supplier shall provide environment friendly furniture and wall fittings for the entire system. Cabling has to be provided by the supplier

l. Power Supply

i. Power input to be 220-240 VAC, 50 Hz fitted with **Indian plug.**
ii. CVT of appropriate ratings meeting SIS specification & of standard make. (Input 160-260 V and output 220-240V and 50 Hz), 3 KVA to be supplied

m. Standards, Safety and Training

i. Should be **USFDA or European CE** approved product.
ii. Manufacturer/Supplier should have ISO certification for quality standards.
iii. Should have local service facility. The service provider should have the necessary equipment recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.

n. Documentation

i. User Manual in English
ii. Service Manual in English
iii. Compliance report to be submitted in a tabulated and point-wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with Authenticated Catalogue/Manual, will not be considered
iv. List of Equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
v. Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out
vi. Bidder should provide demonstration of the product as and when required.

Item sl. no. 2

Multi Para Vital Sign Monitors with $EtCO_2$ (Modular) and with AGM

1 **Advanced high end modular patient monitor having integrated non-invasive, invasive measurement & features suitable for neonate, pediatrics & adult patients.**
2 **Monitor must have bright, highly visible minimum 15" or more color TFT display with full touch screen facility.**
3 **Monitor must have the facility to display min 12 waveform or more, along with related numerical parameters on single screen.**
4 **Monitors must be able to monitor ECG, SpO2, NIBP, Respiration, dual temp, dual IBP, modular ETCO2 and minimally invasive Continuous Cardiac Output.**
5 **Monitor must be ready to connect for CO (Thermodilution), BIS/Entropy, NMT, ICP monitoring, three IBP, 4 ch EEG, module.**
6 **Monitor must have advanced arrhythmia detection and ST Analysis as standard feature.**
7 System must have minimum 24 hours review data including graphical and tabular trends, arrhythmia event recalls, alarms. Full disclosure for user selectable waveform, hemo and lung trends.
8 Monitor must have the time linked review function. Monitor must show the waveforms for the time when the arrhythmia occurred in case of arrhythmia recall.
9 **Monitor must have facility to display 12 lead ECG.**
10 Monitor should have ST segment calculations
11 Must have inbuilt rechargeable battery for minimum 1 hour operation.
12 Must have facility to hook up with network printer, at any point of time and able to take print any review data (Trends, Graphs, waveform full disclosure, arrhythmia recall etc.)
13 Monitor must be able to connect to central monitoring station and should use single network for all kind of networking with the central station or other hospital information system (HIS).
14 All Monitors should be able to communicate with each other and can display other patient monitor data without the need of central monitor.
15 **Monitor must be U.S. FDA or European CE approved.**
16 Each monitor to be supplied with following accessories and the rates must be quoted seperately and also binding for three years:
   a. 3 and 5 Lead ECG electrode cable 2 No. each
   b. Adult, Pediatirc and neonate SpO2 probe – 2 No. each(Ear lobe probes for neonates)
   c. NIBP cuffs for Adult, Pediatrics and neonates – 2 no each (of different sizes)
   d. Temp Probe – 2 Nos. (skin & esophageal one each)
   e. IBP connection cable – 03 Nos.
   f. IBP Disposable Pressure Transducers – 10 Nos
   g. ETCO2 sample line: 10 nos (if applicable)
17 Price of Optional items to be quote separately
18 **Added Para:-**
   a. **One module each for ECG, SpO2,NIBP, Respiration, dual temp, 2IBP,EtCO2 & 2 with AGM. AGM Module in all monitors except 4 in CTVS (independent/dual)**
   b. **Two Modules of minimally invasive CO monitor for Anesthesia, CTVS, Em OT**
   c. **Two modules of NMT, EEG and spirometer, BIS/Entropy for Anaesthesia, Em OT.**
   d. EtCO2 values should be should be shown on main monitor screen.
   e. the monitor should have monitor to monitor over view facility and data transfer over the network
   f. **OPTIONAL:** Web browsing facility to monitor each network monitor data through hospital LAN and through dial up facility from remote location.
   g. **Monitor should be remote web viewing enable.**
   h. **OPTIONAL:**To provide suitable facility for sending and receiving DICOM compatible radiological images like Ultrasound, X-ray etc to and from monitoring network to and

from HIS, RIS etc for integration of various information (Optional-Price to be quoted separately)

i. **Demonstration is must.**

j. **Environmental factors**

i. The unit shall be capable of operating continuously in ambient temperature of 0 - 40deg C and relative humidity of 15-90%
ii. The unit shall be capable of being stored continuously in ambient temperature of -20 -60 deg C
iii. Shall meet IEC-60601-1-2:2001 General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/ECC; EMC directive.
iv. The supplier shall provide environment friendly furniture and wall fittings for the entire system. Cabling has to be provided by the supplier

k. **Power Supply**

i. Power input to be 220-240 VAC, 50 Hz fitted with **Indian plug.**
ii. CVT of appropriate ratings meeting SIS specification & of standard make. (Input 160-260 V and output 220-240V and 50 Hz)

l. **Standards, Safety and Training**

i. Should be **USFDA or European CE** approved product.
ii. Manufacturer/Supplier should have ISO certification for quality standards.
iii. Should have local service facility. The service provider should have the necessary equipment recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.

m. **Documentation**

i. User Manual in English
ii. Service Manual in English
iii. Compliance report to be submitted in a tabulated and point-wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with Authenticated Catalogue/Manual, will not be considered
iv. List of Equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
v. Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out
vi. Bidder should provide demonstration of the product as and when required.

Item sl. no. 3

Multi Para Vital Sign Monitors with $EtCO_2$ (Modular)

1. Wall mounted modular unit suitable for all patient categories. i.e. neonates and infants, children and adolescents.
2. **Parameters monitored: ECG, HR. Respiration rate, SPO2 (Nellcor/Masimo), NIBP, Temperature (Skin & rectal) and Inbuilt EtCO2 (sidestream/microstream).**
3. Display: Colour TFT, approx. at least 10 inch, with wide viewing angle, facility for display of at least 5 waveforms
4. **Soft touch keys/Touch screen, durable and easy to clean**
5. Measurements ranges:
   a. ECG : 5 or 6 lead
   b. HR: approx. 30 to 250 bpm; accuracy 3 bpm

c. **NIBP: approx. 20 to 250 mmHg (systolic) 10 to 180 mmHg(Diastolic) accuracy ±3 mmHg,**
d. NIBP hose should be at least 6 feet
e. SpO2: approx. 10 to 100%, accuracy ±1%
f. RR (Tran thoracic Impedance)ECG div. respiration : approx. 6 to 180 bpm ,accuracy ±1 bpm

6. NIBP oscillometric step deflation, manual/automatic, initial inflation pressure user selectable
7. Sweep , adjustable : 12.5,25 or 50 mm/s
8. Sensitivity (amplitude) of all signals user adjustable
9. Standardizing voltage maker , 1 mV
10. User preset if high/low alarms on all monitored parameters
11. Audio visual alarm in case measurements are outside preset range
12. Silencing feature for audio alarms
13. **Trend display (numerical and graphic) from 48 hrs facility for zooming in up to 1 min. The trends data should not be lost on switching off the monitor**
14. Should have an in-built printer
15. RS 232 serial data output provision(peripheral printer or network), analogue output for ECG
16. Display reports system error, leads and sensor failure and built in battery status.
17. Power requirements : 220V / 50 Hz (with adapter) and internal rechargeable batteries (autonomy at least 2hrs. , automatic recharge)
18. Should be provided with appropriate accessories for wall mounting .
19. Should be European CE/ US FDA approved product.
20. **Supplies with each unit**
    a. **Reusable NIBP cuffs each for all age groups (neonates=5, children=2, adolescents=2) - EtCO2 sample line-5 Nos (If applicable) Temperature sensors (Skin & rectal) -5 Nos each**
    b. Reusable SpO2 sensors (Finger Type) for children, adolescent per monitor.
    c. **Added Para:**
        i. **System should be ready to run the web based application without need of additional server/PC hardware or software up-gradation.**
        ii. **Para:5:EtCO2 (sidestream/microstrem): Approx. 20-80 mmHg Skin Temperature::28-42°C**

21. Environmental factors

a. The unit shall be capable of operating continuously in ambient temperature of 0 -40deg C and relative humidity of 15-90%
b. The unit shall be capable of being stored continuously in ambient temperature of -20 -60 deg C
c. Shall meet IEC-60601-1-2:2001 General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/ECC; EMC directive.
d. The supplier shall provide environment friendly furniture and wall fittings for the entire system. Cabling has to be provided by the supplier

22. Power Supply

a. Power input to be 220-240 VAC, 50 Hz fitted with **Indian plug.**
b. CVT of appropriate ratings meeting SIS specification & of standard make. (Input 160-260 V and output 220-240V and 50 Hz)

23. Standards, Safety and Training

a. Should be **USFDA or European CE** approved product.
b. Manufacturer/Supplier should have ISO certification for quality standards.
c. Should have local service facility. The service provider should have the necessary equipment recommended by the manufacturer to carry out

preventive maintenance test as per guidelines provided in the service/maintenance manual.

24. Documentation

a. User Manual in English
b. Service Manual in English
c. Compliance report to be submitted in a tabulated and point-wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with Authenticated Catalogue/Manual, will not be considered
d. List of Equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
e. Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out
Bidder should provide demonstration of the product as and when required.

25. Rates for each accessory and consumable must be quoted separately having rates validity for 3 years.

Item sl. no. 4
I.C.U Beds

1 Description of Function

1.1 ICU Beds are required in the Intensive Care for comfort &safety of the patient and to facilitate comfortable transfer to and fro emergency/OT/Wards etc. It is also required to carry out point of care procedures including radiological procedures at the bedside.

2 Operational Requirements

2.1 The system should be electrically **operatable by control panel** and adjustable for heights, trendelenburg etc. It should also be having radiotransluscent top for carrying out X-Ray at the bedside.

2.2 Demonstration of the system is a must

3 Technical Specifications

3.1 Should have four section mattress base

3.2 Should have X-Ray translucent back section made up of high pressure laminate.

3.3 Should have X-Ray cassette holder underneath the back section & should allow insertion of X-Ray cassette from **either side of the bed or from Head end.**

3.4 Base frame & support frame should be made up of **Epoxy powder coated MS or CRCA tubes** for long life & prevention from rusting.

3.5 Should have stepless electrical adjustment for the following :-

a. Height: 450-840 mm **+/-10%**
b. Back section: 0- 50 **degrees or more**
c. Leg Section: 0-25 **degrees or more**

3.6 Should have step-less **pneumatic / electric adjustments** for Trendlenburg**(12 deg or more.)**; anti-trendlenburg**(12 deg or more)**

3.7 Should have a manual quick release mechanism for back section adjustment during emergency situation

3.8 Should be equipped with four articulated half-length tuck away side rails **with lock facility**

3.9 Should be equipped with large castors **(diameter atleast 125 mm)** with central braking and steering facility.

3.10 Mattress of the Bed should be made up of high density foam with Anti-Microbial agent incorporated into all components that assists in Prohibiting growth of bacteria & fungi and easy to clean.

3.11 Mattress should be fully Radiolucent for ease in performing portable X-Rays.

3.12 Should have bumpers at all four corners and place for fixing accessories

3.13 Dimensions of bed:

Length: **2100 -2290 mm**

Width: 850 -1020mm

Mattress Size: appropriate as per bed size

4 System Configuration Accessories, spares and consumables

4.1 I.C.U Bed Mainframe perforated heavy gauge sheet

4.2 Heavy Gauge & total weight of Bed

4.3 Bed Ends, detachable: 01 pair

4.4 Articulated half-length tuck away side rails : 04 Nos.

4.5 IV Rods: **01 No.**

4.6 Mattress 12 cm Thick: 01 No.

5 Environmental factors

5.1 Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of safety for Electromagnetic Compatibility.

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

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

6 Power Supply

6.1 Power input to be 180-270 V AC, 50-60 Hz as appropriate fitted with **Indian plug with rechargeable battery backup of atleast one hour.**

6.2 Resettable over current breaker shall be fitted for protection

7 Standards, Safety and Training

7.1 Electrical safety conforms to standards for electrical safety IEC-60601 /IS-13450

7.2 Should be **USFDA or European CE** approved product.

7.3 Manufacturer should have ISO certification for quality standards.

7.4 Electric Shock Protection level-Class-B

7.5 Electric current Protection- Class -1

7.6 Certified to be compliant with IEC 60601-2-38 Medical Electrical Equipment part 2-38 Particular requirements for safety of electrically Operated Hospital Beds

7.7 Should have local service facility. The service provider should have the necessary equipment recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.

8 Documentation

8.1 Certificate of Calibration and inspection from the factory

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

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

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

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

8.5 Service manual in English

8.6 User manual in English

8.7 Must submit user list and performance report within last 5 years from major hospitals.

Item sl. no. 5
ICU INVASIVE VENTILATOR

1 Should be touch screen.

2 **Screen should be minimum of 12" inch or more and integrated.**

3 Compressed air / oxygen driven.

4 Should have the following modes.

- a Volume and Pressure Controlled modes
- b SIMV (Pressure controlled and volume controlled) with pressure support
- c Spontaneous modes like CPAP / PEEP
- d Inverse Ratio ventilation
- e **Advanced mode like Pressure Regulated volume control mode and volume support mode.**
- f Airway Pressure Release ventilation
- g **Non-invasive ventilation.**

5 Should have the facility for following settings:

- a **Tidal Volume: Minimum 5ml and maximum of 1500 ml or more in Volume control**
- b PEEP upto 30 cmH2O or more
- c Pressure support upto 35 cmH2O
- d **Flow Pattern: Square, Decelerating**
- e Respiratory Rate upto 80 bpm or more
- f Inspiratory Plaetauupto 60% of Insporatory time
- g SIMV Rate upto 60 cycles/min
- h FlO2: 21% - 100%
- i Inspiratory and Expiratory flow and pressure Trigger Sensitivity
- j **Manual Cycle, Inspiratory Pause, Expiratory Pause .**
- k Should be able to monitor and measure the following parameters
  Tidal Volume
  Plaetau
  Mean Airway Pressure
  Peak Airway Pressure
  Intrinsic PEEP
  RSBI (Rapid Shallow Breathing Index)
  Resistance and Compliance

7 **In-line Nebuliser with capability of producing < 3 micron drug particle.**

8 Compiled trend analysis at least for 24 hours for all measured parameters.

9 Should have the facility to record multiple loops for comparison

10 **Should display minimum 2 curves/graphs /loops simultaneously on the screen**

Should have audio-visual alarms for the following parameters:

a **Peak inspiratory pressure – High & Low**
b FiO2 – high & low
c Respiratory rate – high & low
d Tidal volume – high & low
e Minute volume – high & low
f Apnea
g Gas supply failure

11 Should have battery backup atleast for 1 hour.
12 **Event log: 1000 Alarm History.**
13 Demonstration is must
14 Spares should be available for 10 years.
15 **Should be supplied with 2 nos. Reusable Silicon adult the 1 no Pediatrics tubing and imported humidifier and 2 nos. ultrasonic nebulizers chambers**
16 **Should be European CE or US F.D.A. approved**
17 **Ventilator should have external compressor, from the same manufacturer (Optional - price to be quoted separately).**
18 Expiratory valve/cassette should be autoclavable and supply 2 nos.
19 **Oxygen sensor should be paramagnetic and covered under warranty.**
20 **Should provide ET-tube leak compensation.**
21 **Compressor should be US-FDA or European CE approved.**
22 **Compressor, hinged arm and ventilator trolley should be from the same manufacturer.**

Item sl. no. 6
Non-Invasive Ventilator

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

1 IPAP 4 to 30 cm
2 EPAP 4 to 25 cm
3 **Breath rate upto 50 BPM with spontaneous for time mode**
4 Timed inspiration 0.5 to 3.0 sec
5 Rise Time 100 to 600 msec
6 System should be supplied with all reusable accessories
7 Power input to be 220-240VAC, 50Hz fitted with Indian plug
8 UPS of suitable rating with voltage regulation, spike protection andmaintenance freebatteries for 60 minutes back up
9 **Should be USFDA or European CE approved product..**
10 Comprehensive training for lab staff and support services till familiarity with the system
11 User/Technical/Maintenance manuals to be supplied in English.
12 List of important spare parts and accessories with their part number and costing.
13 List of Equipment available for providing calibration and routinePreventive Maintenance Support, as per manufacturer documentation in service/technical manual.
14 Certificate of calibration and inspection

15 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
16 L**eakage compensation.**
17 **Mode:- CPAP withPS, Biphasic pressure control, apnea backup**

Item sl. no. 7
Defibrillator with CPR Monitoring and TC Pacing

1 The defibrillator should be least, lightweight, small size with bright colored display
2 The defibrillator should be Biphasic waveform with 3 wave form display with screen size minimum 6 inches diagonal
3 It should display of both selected and delivered energy
4 **It should have ability to energy selection from Paddles or Unit.**
5 In manual mode the unit should provide energy selection at (1-10, 15, 20, 30,50,70,85,100,150,200) joules
6 It should have ability to measure chest compression rate and depth in real time with both visual & audible feedback and optional CPR index on screen.
7 The unit should have transcutaneous external pacing with 40 milli-second pulse width
8 The unit should do self-test daily with facility to give print out of defibrillator testing report and also have code ready indicator on unit.
9 It should have ability to filter out CPR artifacts and allowing person to see organized rhythms without interrupting chest compression
10 The defibrillator should have facility to monitor following parameters
- **a.** SPO2
- **b.** ETCO2
- **c.** ECG

11 Should have optional capability of internal defibrillation if and when required.
12 **The Unit should be U.S.F.D.A or European CE approved**
In addition to standard accessories following items have to be supplied with unit
- **a.** Li-Ion smart battery -1 nos
- **b.** Reusable airway adapter to be used with ETCO2 mainstream sensor & cable- 1 nos
- **c.** Multi-Function Defibrillator/Pacing padz – 100 nos
- **d.** Reusable CPR feedback sensor/ or similar product reused at least on 90 patients – 2 nos

13 The unit shall be capable of being stored and operating continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
14 Power input to be 220-240 V AC, 50 Hz
15 Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
16 User Manual and service manual in English
17 Should have local service facility. The service provider should have the necessary equipment recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.
18 List of important spare parts and accessories with their part number and costing.

Item sl. no. 8

Infusion Pump (Volumetric)

1 Description of Function

1.1 Volumetric Infusion Pump is a medical device that delivers intravenous fluids and medicine to patients in hospitals, outpatient surgical centres, hospices, nursing homes, and in ambulances

2 Operational Requirements

2.1 Programmable volumetric infusion pump is required

3 Technical Specifications

3.1 Battery back-up operating time 5 hours.
3.2 LCD programming display
3.3 Data entry calculator style alpha numeric programming keyboard
3.4 Pole clamp Multi-function mounting clamp
3.5 Nurse call output alarm, time and date settings
3.6 Quick titration of rate or dose with volume-time programming
3.7 Flow rate range (primary) 0.1 to 99.9 ml/hr. (0.1 ml increments) and 1 to 1200 ml/hr. (1ml increments.)
3.8 Volume to be infused 0.1 to 99.9 ml (o.1ml increments) and 1 to 9999 ml(1 ml increments).
3.9 Both flow rates and volume to be infused should be configured to limit the maximum allowable range
3.10 RS232C/USB/RS485 output for Printer, PC connectivity and Data acquisition with selectable baud rate options should be there
3.11Accuracy ±3%.
3.12Pump Database: events of 24 hours with real time.

4 System Configuration Accessories, spares and consumables

4.1 Compatible with any standard infusion sets available in local Indian market
4.2 1000 numbers of required infusion sets should be supplied with the single unit

5 Environmental factors

5.1 The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%
5.2 The unit shall be capable of operating continuously in ambient temperature of 10 - 40deg C and relative humidity of 15-90%

6 Power Supply

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

7 Standards, Safety and Training

7.1 Should be US – FDA/European CE approved product
7.2 Manufacturer/Supplier should have ISO certification for quality standards.

8 Documentation

8.1 User/Technical/Maintenance manuals to be supplied in English.
8.2 Certificate of calibration and inspection from factory.
8.3 List of Equipment available for providing calibration and routine Preventive Maintenance Support as per manufacturer documentation in service/technical manual.

Item sl. no. 9

SYRINGE INFUSION PUMPS

1) The syringe pump should be programmable, user friendly, safe to use and should have battery backup and comprehensive alarm system.
2) Must Work on commonly available standard 5ml,10ml,20ml,50ml,60 ml Syringes with accuracy of minimum of +/-2% or better, with automatic syringe size recognition.
3) **European CE or US-FDA approved product.**
4) Flow rate programmable from 0.1 to 1000 ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option. SAVE last infusion rate even when the AC power is switched OFF.
5) **Bolus rate should be programmable to 40 to 1000 ml/hr or more with infused volume display and one key press bolus. Reminder audio after every 1 ml delivered.**
6) Display of Drug directory of more than 50 drugs, customised and adjustable.
7) Key board locking system for patient safety.
8) Keep Vein Open (KVO) must be available at 0.1 ml or set rate
User should have choice to disable KVO whenever desired.
9) Selectable Occlusion pressure trigger levels selectable from 300/500/900 mmHg.
10) Automatic detection of syringe size & proper fixing. Must provide alarm for wrong loading of syringe such as flanges out of slot; disengaged plunger, unsecured barrel etc.
11) Manual pusher with plunger protection guard.
12) Anti bolus system to reduce pressure on sudden release of occlusion.
13) **Should have comprehensive ALARM package including: Occlusion limit exceed alarm. Near end of infusion pre-alarm & alarm, Volume limit pre-alarm & alarm, KVO rate flow, Low battery pre-alarm and alarm, AC power failure and Drive disengaged alarm.**
14) Rechargeable Battery having at least 1 hours backup for about 5ml/hr flow rate with 50ml syringes. Larger battery life and indication of residual life will be preferred.
15) **Mounting device/ Docking Station for at least four pumps as per requirement so as to enable to power up to 4 pumps with one power cord when mounted on IV pole –Twenty nos.**
16) The unit shall be capable of stored and operating continuously in ambient temperature of 10 - 50deg C and relative humidity of 15-90%
17) Power input to be 220-240VAC, 50Hz.
18) Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
19) User Manual and service manual in English.
20) Should have local service facility. The service provider should have the necessary equipment recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.
21) List of important spare parts and accessories with their part number and costing.

Item sl. no. 10

MICROPROCESSOR BASED FULLY AUTOMATIC VACUUM INFILTRATION BIOPSY PROCESSING SYSTEM (TISSUE PROCESSOR)

Sr. Name of item with specifications

A **Microprocessor Based Floor Standing Fully Automatic Vacuum Infiltration**

Biopsy Processing System

- Microprocessor Based Floor Standing Fully Automatic Vacuum Infiltration enclosed biopsy Processing System with digital controller and display of cycle status.
- Minimum capacity of 200 cassettes.
- At least 15 processing programme with compensatory mechanism for delay facility for manual programming for 50 types of solution and display of reagents level.
- Optimal Temperature control for each reagent automatic cleansing programme.
- All the accessories including 1000 reusable cassettes.
- Good quality containers for all the reagents wastes & cassettes.
- Facility for completion of tissue processing, even if there are faulty condition.
- Environmentally safe with mechanism for discharge of fumes andbiosafty devices
- Optimal Temperature controller accuracy.
- Suitable UPS atleast 4 hours back up.

Item sl. no. 11

MICROPROCESSOR CONTROLLED AUTOMATIC SLIDE STAINER WITH COMPATIBLE COVER-SLIPPER

MINIMUM TECHNICAL SPECIFICATIONS:

a) Microprocessor controlled fully automatic, walkaway, multislidestainer including staining, washing and drying facilities.

□□□□ Minimum 20 stations and one drying station with independent control of time & speed of agitation.

□□□□ Minimum capacity- 20 slides/rack and loading capacity of at least 200 slides.

□□□□ Reservoir capacity- 500 ml (minimum)

□□□□ Memory for atleast 10 titled programs including identification of reagents.

Accessories including sufficient slide-holder, staining troughs, water troughs, 40 racks and other essential accessories for smooth functioning up to full capacity.

Above mentioned accessories should be quoted as spare parts.

b) Coverslipper compatible with autostainer to accept dried slide-racks obtained from end point of autostainer with minimum capacity of 200 slides/Hour.
UPS- 3 hours backup

The offer must include detailed product catalogue, compliance certificate with NIT, authority letter from manufacturer, list of installation with satisfactory user certificate copies of latest supply order for rate reasonability. Installation must include demonstration and training to the satisfaction of users.

Item sl. no. 12

Digital Controlled Fully Automatic Electrophoresis System with inbuilt Power Pack for Haemoglobin, Serum Protein Electrophoresis And Immuno Fixation

ELECTROPHORESIS:

Microprocessor controlled fully automatic walkaway/automated electrophoresis system with computerized printout for quantification of different types of haemoglobin serum proteins, Immunofixation/Immunotyping on whole blood and serum.

The unit should be equipped with all essentials and accessories (automated pipette) hardware and software for processing the samples to give printout results of curves, graphs & quantified values.

The equipment should be supplied along with UPS for 3 hours All the consumables including printout papers for 100 Haemoglobin (500 and 100 serum proteins should be supplied at the time of installation.

The rates of all the kits including controls, antisera, calibrater for the electrophoresis and serum protein electrophoresis must be coated that shall be binding for two years.

The system should be able to receive minimum of one to two samples at one time.

There should be provision for integrated barcode reader, interface with hospital. Information System

The printer should include reference ranges and data storage upto 100 tests.

The rates of all the consumable must be quoted separately also.

The offer must include detailed product catalogue, compliance certificate with NIT, authority letter from manufacturer, list of installation with satisfactory user certificate copies of latest supply order for rate reasonability.

Installation must include demonstration and training to the satisfaction of users.

Item sl. no. 13

Mid-range Whole Body Colour Doppler

Sl.No.	
	2D Color Doppler Ultrasound Equipment
	The equipment must be capable of operating in B, M, Doppler, Color flow and Power Doppler modes. It must support transducers with linear, sector and convex formats. Further, it must include a full array of measurement and calculation packages. The specific minimum requirements for this equipment are as follow.
1	**User Interface & Ergonomics**
1.1	The system shall support backlight keys or provide an integrated light for ease of use in darkened work areas. The backlighting shall be tri-state to further simplify ease of use and indicate function selected.
1.2	The system shall include at least a 17" LCD monitor to allow for both excellent images viewing as well as providing for workflow and productivity features.
1.3	The system shall have three active universal probe ports in a convenient, easy to access location to maximize the availability of needed probes.
2	**Productivity**
2.1	The system shall offer an extended field-of-view imaging that operates by sweeping a transducer over the anatomy of interest. This mode shall build the extended field-of-view in a real-time manner, showing the image as it builds.
2.2	System shall have image management features that store images by patient and include the ability to review images from different exam dates.
2.3	**System shall support the ability of post image acquisition optimization to optimize imaging** parameters such as B Gain, TGC, Color Gain, Dynamic Range, Speckle Reduction levels, Doppler Gain, Doppler Base Line on image recalled from the image archive.
2.4	System shall allow for live image and archive images side-by-side or quad display on a single monitor. This display shall allow any type of image – B-Mode, Color, or power Doppler on either side.
2.5	The system shall display thumbnails on a clipboard while scanning to facilitate exams.
3	Unit should have Auto IMT (Intima media thickness measurement) facility.
4	Unit should have Ultrasound Contrast imaging capability (Micro bubbles). **Tissue Harmonic imaging with contrast should be available as standard feature.**
5	**Post-acquisition Data Processing.**
5.1	The system shall allow for post-storage image manipulation to provide maximum image flexibility, review and productivity. It shall include, at a minimum the ability to change the:
	Overall B-Mode gain, dynamic range and gray scale maps.

	Overall Doppler gain, base line shift, sweep speed and inverted spectral waveform.
5.2	The system shall provide a display zoom function on frozen images.
6	**Scanning Parameters**
6.1	The system shall possess the ability to control speckle through the use of a speckle reduction (SRI) algorithm that enhances borders, reduces speckle artifact and improves detail and contract resolution in gray scale with compatibility in Color mode, 3D and side-by-side display. This feature shall have operator selectable settings and be capable of displaying in side-by-side mode with non-speckle reduced image.
6.2	The system shall provide the ability to scan in the compound imaging mode with multiple lines on all linear and convex probes.
	The system shall provide scan depths from a minimum of 2 cm to a maximum of at least 30 cm.
	System should have minimum of 17,000 Digital Channels for better resolution.
6.4	System should have Dynamic Range of **at least 170 Db.**
7	**M-Mode Imaging**
	The system shall have a facility allowing the M-Mode cursor to be adjustable in any plane and allow for accurate measurements. The M-mode shall be available from a CINE loop or live image.
8	**Spectral Doppler (PW)**
8.1	Doppler mode shall be available on all probes.
8.2	The Doppler cursor shall be user-steerable with linear transducers.
8.3	The system shall provide the user with control to either have Doppler with real time B-Mode, Doppler with periodic B-Mode update or Doppler with frozen B-Mode scanning.
8.4	The system shall provide stereo audio of the Doppler spectral signal.
8.5	The system shall provide the user with control during timeline replay to review the spectrum only (i.e., frozen B-Mode) or with the spectrum and B-Mode together and synchronized.
8.6	The system shall provide the user with the ability to add a spectral peak and spectral mean trace onto the spectrum in both real time or after freezing the image.
9	**Measurements and Calculations**
9.1	The system shall provide digital callipers for at least the following measurements:
a)	Depth & Distance
b)	Circumference
c)	Area
d)	Volume
e)	Velocity
9.2	All measurements should be possible on frozen images as well as on images recalled from the image archive.
9.3	The system shall provide a comprehensive set of obstetrical and gynecologic calculations and vascular calculations with summary reports.

10	Unit should have integrated 3D Imaging facility using Normal probes for MULTIPLANAR views and surface rendering as well as vascular 3D capabilities for Gray scale, Color Mode and also power Doppler. System is capable of capturing 3 dimensional data from parallel and sweep movements.
11	**Image Archive and Networking**
11.1	The device should store images onto an integrated DVD-R Multridrive and a USB port storage device.
11.2	The system shall include at least 100 GB bytes of dedicated hard drive for large local storage capacity.
12	**DICOM Connectivity should be a standard feature with the hospital network and a standalone PC (Windows based) with suitable DICOM viewer to be supplied.**
13	**Transducers (Price of Transducer and Biopsy attachment are to be quoted seperately)**
a)	Transvaginal Probe **with Biopsy attachment**, Operating Frequency 4- 9 MHz
b)	Convex Probe with biopsy attachment. Operating Frequency: 2 - 5 MHz
c)	Linear Probe with biopsy attachment. Operating Frequency: 5 – 10 MHz
d)	**Sector probe / Microconvex probe** for pediatric neurosonography 2-5 MHz
14	**The unit must be US FDA and CE approved.**
15	**Suitable UPS with 60 minute backup for whole system.**

Item sl. no. 14
Portable Colour Doppler System

- Latest Technology Portable – Digital Colour Doppler System suitable for abdominal, ob & gyn, small parts, echo, vascular & musculoskeletal applications.
- The system should have minimum128 channels receiving & transmitting.
- Should have broad band multi frequency transducer technology with minimum two active ports.
- Should have B Mode, M-mode, Colour, Angio, Pulsed Wave Doppler Mode and Continuous Wave Doppler Mode of Imaging.
- Should have a very high System Dynamic Range of at least 150 dB.
- Inbuilt rechargeable battery will be preferred and the system should operate for at least 60 minutes on battery.
- Should have AC Mains adaptor / battery charger.
- It should have inbuilt foldable alphanumeric keyboard.
- Should have integrated colour display screen size of at least 10 inches or more.
- Should have high frame rate of more than 120 frames / sec
- Should have inbuilt image storage facility for at least 100 Images.
- Should have cineloop memory.
- Should DICOM ready system.
- Should have facility to transfer images to computer.
- System should be supplied with the following.
- C 24 Broadband phased array for cardiology, general imaging, abdominal.
- 2-5 MHz Broad Band convex Probe for abdominal, ob, gyn applications.
- 5-12 MHz broadband linear probe for vascular application.
- Trolley.

- Triplex mode should be available in all probes.
- Auto trace & automatic Doppler calculation should be available in live / frozen images.
- 2 ton splits AC of standard company.

Item sl. no. 15

Haemodialysis Machine

1 Description of Function

1.1Haemodialysis is a method for removing waste products such as potassium and urea, as well as free water from the blood when the kidneys are incapable of this (i.e. in renal failure). It is a form of renal dialysis and is therefore a renal replacement therapy.

2 Operational Requirements

2.1Machine should have facility for Acetate, Bicarbonate, Sequential dialysis(Isolated UF)

2.2 Upgradable to future software developments and can be linked with Patient Data Management System

2.3 The blood pump should run even in the absence of water or dialysate flow.

3 Technical Specifications

3.1 Should have facility for conventional and high flux dialysis.

3.2 Machine should have two bacterial filter (Pyrogen filters) one at water inlet and one before water going to dialyser

3.3 Battery back-up for 20-30 minutes to run complete machine with heater supply

3.4 Should have Na, Bicarbonate and UF profiling

3.5 Dialysate temperatures selectable between 35 degrees C to 39 deg. C

3.6 Variable conductivity setting between 12 to 15ms/cm

3.7 Should have variable dialysate flow 300-800 ml/mt

3.8 Should have facility to show trends curve of all parameter for 15-20 minutes

3.9 Heparin pump with syringe sizes up to 10m or 20ml

3.10 Stroke pressure operated short term single needle dialysis

3.11 Ultrafiltration 0.1 to 2.5 litres/hr. The in and out fluid circuit must be separated so that there is no chance of contamination in the event of membrane rupture.

3.12 Treatment parameter should be displayed by graph and digitally both

3.13 Should have integrated heat (800C) and chemical disinfection facility.

3.14 Should have accurate feedback control conductivity mixing technique.

3.15 Should have drain facility.

3.16 Should have accurate UF control by flow measurement technique.

3.17 All important data should be pre-set so that machine can be used anytime without feeding data every time

3.18 Should have automatic self-test facility

3.19 Should have auto ON/OFF Facility

3.20 Should have touch button screen

3.21 Easy to service, troubleshoot and calibrate

3.22 Machine can be connected to computer to feed all data and trouble shoot whenever any problem

3.23 Blood pump rate from 50-500 ml/min adaptable to standard, A-V bloodlines

3.24 Ability to monitor pulse rate and NIBP with graphic and tabulated trends.

3.25 Audio visual alarms on limit violation of conductivity, blood leak, air leak, transmembrane pressure alarms, Dialysis temperature alarm, dialysis can empty alarm, end of disinfection alarm by pass alarm and blood pump stop alarm

3.26 Alarm for reverse Ultrafiltration.

4 System Configuration Accessories, spares and consumables

4.1 System as specified-

4.2 All consumables required for installation and standardization of system to be given free of cost.

4.3 To be supplied free of cost Bacterial filters– 2 sets extra, 100 polysulfone, 1 m2 dialyzers and tubing's

5 Environmental factors

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

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

6 Power Supply

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

6.2 UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up.

7 Standards, Safety and Training

7.1 US-FDA or European CE approved product.

7.2 Manufacturer/Supplier should have ISO certification for quality standards.

7.3 Shall comply with IEC 60601-2-16 SAFETY requirements of medical electric equipment part2-particular requirements for the safety of Haemodialysis equipment.

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

7.5 Should have local service facility .The service provider should have the necessary equipment recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.

8 Documentation

8.1 User/Technical/Maintenance manuals to be supplied in English.

8.2 Certificate of calibration and inspection.

8.3 List of Equipment available for providing calibration and routine Preventive Maintenance Support, as per manufacturer documentation in service/technical manual.

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

8.5 Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out

8.6 SITC - Suitable 200 ltrs/hr RO Plant with storage tank of 500ltrs should be supplied.

Item sl. no. 16

High Speed Drill & Cranial Stablization System for Neurosurgery

- The pneumatic drill should have 72,000rpm at 120 psi / 8 bar.
- Power should be 144 Watts at 120 psi
- Maximum Torque should be 61 mN-m
- Should operate between 2 to 8 bar (20 – 120 psi)
- Should have smaller and lighter pneumatic hose to reduce hose drag
- Should have open Foot pedal design for easy access and repositioning and should have automatic port cover to protect the motor port when not in use
- Foot pedal should have variable speed control and pressure gauge mounting
- Foot pedal should have option for connection of Saw hand pieces
- Regulator hose should be detachable at both regulator side and foot pedal side
- System should give audible beeps / alerts while in reverse action.
- Cables should be lightweight, flexible and autoclavable.
- Micro saw system for reciprocating Saw, Oscillating saw, Sagittal saw should be available with the system.
- Sterlizable through ETO or regular steam autoclave
- In line automatic lubrication capable of consistent oil delivery in every case and filtering during the operation through a single cartridge.
- Sound level not more than 70dB @ 72000rpm @120psi / 8 bar
- Attachments should have tapered design for better visibility under microscope.
- There should be bold colour coding to identify matching attachments and tools.
- System should have quick connect but lockable attachments of various sizes.
- Warranty should be of 2 years
- Performance should be attached atleast of 2Govt. institutions.
- Demonstration should be given at Neurosurgery department, PGIMS, Rohtak,
- FDA / CE should be approved

Attachments and Accessories:

Sr.	Description	Qty.
1	Perforator Hand piece with	1
2	Craniotomy Hand piece	1
3	Leminectomy attachment	1
4	Reusable – perforator	5
5	Disposable cutter for craniotomy	20
6	Diamond burr 3mm & 4 mm	3 3
7	Round burr 4 mm & 5mm	3 3

Item sl. no. 17

Digital Video EEG Machine

VIDEO EEG Monitors 32 CHANNELS	
1 Description of Function	
1.1	An electroencephalograph uses electrodes placed on a patient's scalp to measure, amplify, display in graphic form, and record the weak electrical signals generated by the brain. Electroencephalography is useful in observing and diagnosing a variety of neurologic conditions, including epilepsy, related convulsive disorders, and brain death. It can also be used to evaluate psychiatric disorders and differentiate among various psychiatric and neurologic conditions. In addition, electroencephalographic studies can assist in localizing tumors or lesions on or near the surface of the brain
1.2	In video-EEG, person is videotaped at the same time as his/her EEG is recorded. The recording is carried out for a long period of time. The doctor usually views the video and EEG images side by side on a split screen. In this way the doctor can see precisely how a person's behavior during seizures is related to the electrical activity in the brain
2 Operational Requirements	
2.1	EEG System complete with software for acquisition and review and the compatible computer with necessary interface and printer with a high resolution video camera and longtime imaging storage is required.
3 Technical Specifications	
3.1	**32 CHANNEL VIDEO EEG MONITORING SYSTEM with 10 DC Channels; Sleep Hardware and software (Optional)**
	1.32channel digital EEC System; user friendly marking of events during recording/ review.
	2. Automatic montage selection with provision for questionized montages during acquisition and review.
	3. Split screen capability to view live as well as review data.
	4. Complete digital control over sensitivity filter settings and photic stimulator sequences.
	5. Continuous impedance testing of electrodes during acquisition video data editing capabilities with and without EEG data.
	6. EEG video data recording facility on CD / DVD in readable format on other PC's without use of special software.
	7. Patient data management and reporting software.
	8. Video and EEG data storage capability of at least 48 hours on the hard disk. Amplifier and patient connection box must be two separate devices. Electrode connection breakout box must have inbuilt night light facility.
	9. Two high definition color digital video cameras (min 5 mega pixels) with following capabilities.
	a) Securely wall mountable vide range PAN/120 degree tilt, ICR function, alarm function, 12x digital zoom, remote controllable, E flip function
	b) PAL format.
	c) Auto tracking facility.
	d) One camera with zero lux facility.
	e) Infra-red illuminator
	f) Zoom of 18 x or more

	10) Automatic and manual event detection software and notification of event occurring by alert massage or by triggering an external device.
	11) Photic stimulator with adjustable stand and programmable software and LED stimulator
	12) Spike detection software.
3.2	Technical Specifications:
	1. 32 Channel Amplifiers with 10 DC channels needed.
	2. CMRR should be > 110 dB or better
	3. Noise < 2uV peak to peak
	4. Input Impedance > 100 Mohm
	5. 16 bit ADC resolution or better
	6. Low filter adjustable between 0.16 to 5 Hz.
	7. High Filter Adjustable between 50 to 100Hz.
	8. Notch Filter Adjustable to software.
	9. Acquisition Sensitivity from 1 microvolt per mm to 2000 microvolt per mm.
	PC Specifications:
	1. Core Duo Intel Pentium IV or Equivalent 1.8 GHz with 8GB RAM or Better.
	2. 1 TB HDD or Better.
	3. USB Ports with Combo Drives.
	4. Optical Mouse.
	5. Multimedia Keyboard compatible with latest Windows OS.
	6. 21" LCD/LED Display.
3.3	Acquisition Software:
	1. Facility to combine all user defined settings into templates or protocol, for use in different applications.
	2. Facility for Individual Channel Control, Customization of Montages, along with Remontage Capabilities.
	3. Should display a graphical view of the current montage during the EEG recording.
	4. Facility to click any point to display corresponding traces & Slide pointer to change displayed duration of the Overview.
	5. Facility for sortable list of all events placed in the recording, both automatically and manually.
	6. Facility to review and add events to recorded traces.
	7. Facility for automatic time counters and event insertion during Hyperventilation.
	8. Facility to controlled display Sensitivity for User defined value.
	9. Facility to file zip.
	10. Facility of configurable Time Base.
	11. Spike & Seizure software
3.4	Review Software: **02 stations with 02 PCs**
	1. Paging facility as Automatic Paging, Mouse controlled Paging and/ or Keyboard Paging.
	2. Playback of EEG for one or more channels.
	3. Facility for Zoom/ Magnify EEG trace,
	4. Facility for Copy & Paste of EEG or Trends to reports and presentations
	5. Facility for viewing several recordings in tiled or cascading windows.
	6. Facility for online and transmission of data (WAN compatible)
3.5	Patient Administration Software:

	1 Archive to CD or DVD, powerful search, patient folder.
4 System Configuration Accessories, spares and consumables	
4.1	System as specified
4.2	A. Accessories should include:
	1.EEG Cable(with extra one cable) with connections and 5 sets of gold plated EEG disc Electrodes.
	2. 50 boxes of 10-20 conducting paste for EEG
	3. 5 sets of Medium, small and large caps.
	4. Customized Trolley from principal
	5. All mountings.
	6. Re-writable DVDs-100Nos. and paper for 1000 EEGs.
	7. Compatible Laser Printer with minimum of 1200 DPI Resolution and A4 Size printing facility.-02
	B. The prices of the following accessories should be quoted and should be frozen for 5 years after the warranty period:
	1.. EEG cable and its connections.
	2. Gold plated EEG disc electrodes.
	3. 10-20 EEG Conduction paste.
5 Environmental factors	
5.1	Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.or should comply with 89/366/EEC; EMC-directive.
5.2	The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15-90%
5.3	The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
6 Power Supply	
6.1	Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2	UPS of suitable rating with voltage regulation, spike protection and maintenance free batteries for 60 minutes back up
7 Standards, Safety and Training	
7.1	Should be US FDA or European CE approved
7.2	Manufacturer should have ISO certification for quality standards.
7.3	Shall be certified to be meeting the safety standards IEC- 60601-2-26 PART 2: Particular requirements for safety of EEG Systems.
7.4	Comprehensive training for lab staff and support services till familiarity with the system.
7.5	Downtime should not exceed 72 hours and preventive maintenance visits by service provider every two months during warranty and AMC period.
8 Documentation	
8.1	User/Technical/Maintenance manuals to be supplied in English.
8.2	Certificate of calibration and inspection.
8.3	Should have local service facility and service provider should have necessary Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
8.4	List of important spare parts and accessories with their part number and costing.

8.5	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job descriptin of the hospital technician and company service engineer should be clearly spelt out.
8.6	Compliance report to be submitted in a tabulated and point-wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with Authenticated Catalogue/Manual, will not be considered

Item sl. no. 18

EMG/EP Machine for Electrophysiology Lab	
1 Description of Function	
1.1	Electromyographs detect, process, and record the electrical activity of the skeletal muscles .EP graphic recorders measure and document the brain's electrical response to visual, auditory, or somatosensory stimuli. Electromyographs test the functional ability of peripheral nerves by using integral stimulators to measure nerve conduction velocity (NCV), the rate at which a nerve can carry a signal from the point of stimulus by an electrode to the muscle that it innervates.
2 Operational Requirements	
2.1	EMG System complete with EP recorders and all software and hardware is required.
3 Technical Specifications	
3.1	1) Minimum 4 channel upgradable to 6 or 8 system with optical isolation with Ethernet connection for connecting to either to desktop system or laptop system for portable use.
	2) Motor NCV with automatic marking
	3) Sensory NCV with automatic marking
	4) F wave with split screen display with automatic marking of F responses showing the Max F, Min F and % F values.
	5) H reflex & Blink reflex
	6) Repetitive nerve stimulation with repetition rate of 0.5 Hz to 50 Hz
	7) Insertional/Spontaneous EMG recording for minimum 300 secs on hard disk or unlimited buffer storage
	8) EMG replay of minimum 300 sec of stored data from hard disk with audio and store in AVI format for review on any Windows Media Player PC.
	9) Sympathetic skin response
	10) Somato sensory evoked potentials (Upper and lower Dermatomes)
	11) RR Interval program with programs for stand/sit/supine position & Heart rate variability calculations
	12) Auditory evoked potentials: BAER , AEP programs
	13) The software should have facility to measure the Patient Hearing Threshold before running the BERA test.
	14) The software should be capable of Grand averaging of the responses for better signal quality for BERA recordings.
	15) Auditory headphones with clicks, bips and tones

	16) Visual evoked potentials: Pattern reversal VEP with LED goggles,
	17) 21" or better LED/LCD monitor for visual evoked potential
	18) Common mode input impedance > 1000Mohm
	19) Low filter to be varied from 0.05 Hz - 500Hz or Higher
	20) High filter to be varied from 30Hz - 5KHz or Higher
	21) Gain to be varied from 0.5 ms/div to 1000 ms/div
	22) Constant current **or constant voltage st**imulator with variable from 0 to 100mA/ **0-400V** with increments of 0.5mA and pulse duration to be varied from **0.02-1 ms.Facility to store stimulus intensity for each trace. Adjustable modes to either monophasic or biphasic stimulation using Single, refractory, collision, double or train stimulation.**
	23) Software adjustable notch filter
	24) The electrical stimulator should have controls for stimulus delivery, intensity, store, reverse polarity button and two programmable buttons preferred by user **The hand grip should be small, lightweight with control over following adjustable parameters control of stimulus intensity & polarity** **1. LED Polarity indicator during stimulation** **2. Control for 'next step' in nerve conduction protocols** **3. Must have control for side change in motor/sensory NC** **4. Provision for initiating single & repeated stimulus** **5. Start/stop of averaging from handgrip** **Variable and adjustable stimulator parameters from the panel as well as the stimulator.**
	25) The base unit of the system should provide all the controls for performing the test, switching to other test protocols and review of the test with control knobs for sensitivity, gain, marking cursors, pulse width etc. with In-built comprehensive nerve/muscle directory
	26) Automatic report generation in MS word format and grammatically frame the sentences and print in the report.
	27) The software should be supplied with Normative data for computation and online comparison with test values
	28) The software to have facility to quickly review the complete summary of the all the acquired traces and tabulate the results without need to go in each and every test protocol.
	29) The software should have Live monitor window to view the raw signal of the data before acquiring or storing on the system.
	30) The system should be supplied with branded Pentium Core 2 Dual Processor with minimum of 2.7 GHz, 512 MB RAM, 120 GB Hard Disk, 15" flat panel TFT /LCD monitor, DVD Writer, Laser Printer, UPS, Trolley & Electrode starter kit.
	31) The system should have Quantitative EMG with Multi MUP, Interference pattern with online cloud plot, P300, Skin temperature probe. **Facility for Collusion study, Silent Period, Single Fiber EMG (triggered & stimulated), CNV, P 300**
	32) LED flash rate should be variable: 0.1 - 100 per second (Hz) and duration between 1-500ms
4 System Configuration Accessories, spares and consumables	
4.1	System as specified
4.2	The system should include:
	Branded PC with at least 21" TFT/LCD monitor,
	DVD-RW combo drive, laser printer, with latest WINDOWS operating system
	Trolley from principal
	complete set of electrodes - 100, disposable EMG needles 50, single fibre stimulator 01.

	Amplifier and up to **4 electrical stimulators (2 adult & 2 pediatric)**
	AEP click stimulator with headphones,
	VEP stimulator 19“ monitor
5 Environmental factors	
5.1	Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility. or should comply with 89/366/EEC; EMC-directive.
5.2	The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15-90%
5.3	The unit shall be capable of operating continuously in ambient temperature of 10 -40 deg C and relative humidity of 15-90%
6 Power Supply	
6.1	Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2	UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up.
7 Standards, Safety and Training	
7.1	Should be US FDA or European CE approved product
7.2	Shall meet IEC 60601-2-040 Safety requirements - Part 2-040: Particular requirements for Electromyographs and Evoked Response Equipments
7.3	Manufacturer should have ISO certification for quality standards.
7.4	Comprehensive training for lab staff and support services till familiarity with the system.
8 Documentation	
8.1	User/Technical/Maintenance manuals to be supplied in English.
8.2	Certificate of calibration and inspection.
8.3	Should have local service facility with service provider having necessary equipments for providing calibration and routine Preventive Maintenance Support, as per manufacturer documentation in service/technical manual.
8.4	List of important spare parts and accessories with their part number and costing, which should be frozen for the next five years.
8.5	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
8.6	Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/Para number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered.

Item sl. no. 19

Endoscope & Colonoscope

SI NO.	Scope – UGI, Colonoscope
	• Compatible HD Video Processor
	•Compatible **180 – 300 Watts Xenon Light** Source with 2 extra Xenon bulbs.
	• Compatible 24‖ or more HD medical LCD Monitor
	• Portable high quality Trolley for the whole system
	• Biopsy channel rubber valves (50 pieces with one endoscope)

	• All Scope should be fully immersible for disinfection.
	Other inclusions:
	• All standard accessories, Air Leakage Tester, User/Operator & Reference Manuals,
	• A fully loaded Windows Xp/Vista based PC with genuine software including windows Xp/7, office 2007/2010,software for recording ,processing and printing,
	• CPU minimum 500 GB hard disk, 5 GB RAM, DVD and CD reading & writing capabilities, digital keyboard, optical mouse, 17-19‖ LCD monitor(other than above), UPS of standard make and model , color laser printer preferably with smart memory PC card slot or digital output to facilitate direct recording of data, image and video output from the processors
	• Separate trolley for installation of computer
	• Large trey should be provided for disinfection of equipment
	Adult Therapeutic UGI Videoendoscope
	•Optical System
	Field of View: 120-140 degree or more
	Depth of View: 5-100 mm or better
	HD TV compatible CCD: High resolution Color chip of latest technology
	•Distal End (OD): 11-13 mm or less
	•Bending section (Range of distal end bending)
	Up: 190-210 degree or more
	Down: 90-120 degree or more
	Right: 100-120 degree or more
	Left: 100-120 degree or more
	•Insertion tube (OD): 11-13 mm or less
	•Working Length: 1000-1150 mm
	•Total length: 1300-1450 mm
	•Instrument Channel (ID): 3.8 mm or more
	Adult Video Colonoscope
	•Optical System
	Field of View: 140 degree or more
	Depth of View: 4-100 mm or better
	HD TV compatible CCD: High resolution Color chip of latest technology
	•Distal End (OD): 14 mm or less
	•Bending section (Range of distal end bending)
	Up: 180 degree or more
	Down: 180 degree or more
	Right: 160 degree or more
	Left: 160 degree or more
	•Insertion tube (OD): 13 mm or less
	•Working Length: 1600-1800 mm
	•Total length: 1900-2100 mm
	•Instrument Channel (ID): 3.8 mm or more
	Accessories:
	Biopsy forceps, foreign body forceps, injection needle, dormia basket and polypectomysnear – one each for all scopes

Item sl. no. 20

ECG MACHINE (12 LEAD)

1 **12 channel ECG with LCD display for simultaneous display of 12 leads on the screen**
2 Lead length selection 3,6&9 sec.
3 **Recording for 12 channels (3 leads and one user selectable any lead as Rhythm lead).**
4 Recording speed selection of 5, 10, 25 & 50 mm/sec.
5 Manual, automatic and ECG recall
7 Complete digital filters, avoids baseline drft, AC (ON/Off) and EMG (25 Hz/35Hz/off)interface , low pass filter(150 Hz/100 Hz/75 Hz), DFT Filter
8 Sensitivity of 2.5,5,10,20 mm /mV. It should also have AGC (Automatic Gain Control)
9 Facility to enter patient information (Name, Age. Sex, Height, Weight < Blood pressure, doctor's name, Hospital's name which get updated in system and is recorded on the recorder thermal paper.
10 Auto updating of patient - ID with PC connectivity and export to external device.
11 **Facility for lead disconnection indication**
12 **Patient memory function, up to 100 patients**
13 Waveforms can be recorded.
14 Average template recording (use selectable)
15 **Interpretation software**
16 Alarm information for lead off, lack of paper, Hi & low alarm, ECG signal overload and low battery capacity.
17 **Mains and in built rechargeable Lithium battery**
18 It should be US FDA or European CE approved product.

Added Para:

1.Facility to take printout on A4 size paper
2. Should be supplied with 20 nos. of ECG recording paper rolls/z-fold papers
3. Should have PC connectivity.
4. Bidder should give demonstration of the quoted model if required

Item sl. no. 21
Radiofrequency Ablation System for Treatment of Varicose Veins

1 Description of Function	
1.1	Radiofrequency ablation system for varicose veins is required for endovenous management of venous reflux disease.
2 Operational Requirements	
2.1	It should be capable of providing the treatment for varicose veins and perforators.
3 Technical Specifications	
3.1	It should be minimally invasive system utilizing Radio Frequency ablation technology.

3.2	***CONSOLE***:
	1. Should be interstitial form of therapy which can be performed under local anaesthesia 2. Vein wall should be given controlled heating between 0 – 120 degree using catheter like device. 3. The catheter intended for superficial vein reflux should be very flexible to navigate through tortuous veins 4. The catheter heating part should be of non-stick type to minimise coagulum build-up on heating element. Also allows for easy catheter repositioning. 5. The power output of radiofrequency generator should automatically correspond to the controlled heating of the vein wall and power should be least so as to avoid thermal injuries or burns. 6. All the catheters should be compatible with RF console 7. Should have hand switch/Foot control. 8. Frequency of the system(RF Signals)should be 450-500 KHz 9. Trolley with castors and lockable drawer to keep accessories 10. Should have temperature controlled delivery system 11. Should have real time temperature feedback control for regulating the power delivered 12. Should be equipped with hospital grade detachable AC Power cord of at least 3 metre long.
3.3	***ACCESSORIES:***
	1. Flexible catheters of diameter approx.2mm.(**Minimum 10 RFA catheters)** 2. Length of catheters approx 1000-1200 mm. 3. Electrode length should be 1.5cms.-7.0cms. 4. Other compatible accessories 5. Introducer Kits containing puncture needle etc.
4 System Configuration, Accessories, spares and consumables	
4.1	System as specified-
5 Environmental factors	
5.1	The unit shall be capable of being stored continuously in ambient temperature of 0 - 50deg C and relative humidity of 15-90%
5.2	The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%
6 Power Supply	
6.1	Power input to be 110-240Volts, 50-60 Hz fitted with Indian plug
6.2	Optional Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications.
7 Standards & Safety	
7.1	Should be US FDA or European CE approved product
7.2	Manufacturer and Supplier should have ISO certification for quality standards.
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General Requirements (or equivalent BIS Standard)
7.4	Shall meet internationally recognised standard for Electro Magnetic Compatibility (EMC) for electromedical equipment: IEC-60601-1-2 :latest edition Or Equivalent BIS) or should comply with 89/366/EEC; EMC-directive as amended
7.5	Certified to be compliant with IEC 60601-2-2 Medical Electrical Equipment Part 2-2: Particular requirements for the safety of high frequency surgical equipment

8 Training	
8.1	Comprehensive training for staff of user department and support services till familiarity with the system.
9 Warranty & Service	
9.1	Percentage of uptime guarantee of the equipment during warranty and CMC period for which commitment is to be given must be specified with acceptance of applicable penalty clauses in case of failure to do so.
9.2	After sales service must be provided in the city of installation. In situations requiring service/repair of the unit outside the city of installation, the expenditure on account of this will have to be borne by the supplier
10 Documentation	
10.1	Product Literature in original along with that of accessories and indigenous components if any. Photocopies/computer generated copies are not acceptable
10.2	Statement of compliance with tender specifications with clear and unambiguous links to relevant portions of product literature/authentic document, which should be highlighted. Alternatives provided for noncompliant specifications with justification must be described in detail with supporting literature.
10.3	Certificate of compliance with standards and approvals stated above
10.4	Certificate of manufacturer/principal regarding authorisation of service facility provided by the supplier
10.5	List of Equipment available in the Service Centre for providing calibration and routine Preventive Maintenance Support. as per manufacturer documentation in service/technical manual.
10.6	List of important spare parts and accessories, which are required for maintenance and repair, with their part number and costing.
10.7	Terms and conditions of warranty and CMC including schedules of visit by service personnel with check list of services to be carried out
10.8	Commitment for supply of log book with check list for daily, weekly, monthly and quarterly preventive maintenance with contact details of service personnel along with the equipment. The job description of the hospital technician and company service engineer should be clearly spelt out in the log book.
10.9	List of users of quoted model with performance certificate from major institutions

Item sl. no. 22

Endo-Bronchial Ultrasound System (EBUS) with Endoscope Reprocessor unit

System Includes:

I. Ultrasonic Broncho fiber videoscope (for EBUS-TBNA)
II. Radial EBUS system
III. Ultrasound Processor with Colour Dopper function
IV. Video Processor & Light source
V. High resolution Monitor
VI. Endoscope Reprocessor (Automatic with Ultrasonic Cleaning provision)

Specifications:

1. Ultrasonic Broncho fiber videoscope (for EBUS-TBNA)

1.1	Field of view	At least 100º (at least 45º forward oblique)
1.2	Depth of field	Approximately 2-50 mm
1.3	Tip deflection	Up at least 120º Down at least 90º
1.4	Rigid distal width	Probe not more than 6.5 x 7.0 mm Optic not more than 7.5 mm
1.5	Insertion tube outer diameter	Not more than 6.5 mm
1.6	Instrument channel width	At least 2 mm
1.7	Working length	At least 600 mm
1.8	Total length	Not more than 900 mm
1.9	Acoustic frequency	5-10 MHz switchable
1.10	Scan Direction	Longitudinal
1.11	Scan System	Convex
1.12	Scan Angle	75º

2. Radial Probes

2.1	Probe driving unit must support wide range of EUS and EBUS Procedure.
2.2	Frequency range of 7.5 to 30 MHz enabling observation at high frequencies to provide higher resolution of Superficial Layers
2.3	Dual-plane reconstruction combining radial and linear images.
2.4	Total Length – 1850 mm or less
2.5	Weight – 1.5 Kg or less
2.6	Ultrasonic Probe 1.7 mm that fits through a 2.2 mm Diameter Channel of a Standard bronchoscope with a Frequency of 20 MHz – 1 No.
2.7	Ultrasonic probe diameter of 2.6 mm with Balloon Sheath and can easily fit through and bronchoscope with channel Diameter of 2.8 mm or more with a Frequency of 20 MHz – 1 No.
2.8	Ultrasonic Probe Slim 1.7 mm Outer Diameter with Frequency of 30 MHz – 1 No
2.9	Ultrasonic Probe diameter of 2.6 mm with Balloon Sheath can easily fir through any bronchoscope with channel Diameter of 2.8 mm or more with a Frequency of 30 MHz – 1 No.

3. Digital Color Video Processor

3.1	Single CCD color, high resolution HDTV & narrow board imaging compatibility
3.2	300 W xenon lamp with a spare bulb
3.3	Video output – 2 RGBs connectors, 2 Y/Connectors, 1 composite video connector at least
3.4	1 printer control connector, 2 external device control connectors
3.5	1 serial connector
3.6	Power consumption 230V
3.7	Weight – preferably less than 20 kg.
3.8	Should be controlled from the front, keyboard or endoscopy remote switches
3.9	Should be capable of white balance & adjustment, have provision for standard color change, adjustment automatic gain control (AGC), image enhancement, selection etc.

4. Monitor

4.1	19" High resolution LCD or higher (LED) color monitor compatible with processor with full range of colors & inputs including viewing angle as needed for proper functioning
4.2	Power consumption 230V

5. Digital Ultrasound Scanner

5.1	Compatible with the above EBUS puncture scope & radial brobes
5.2	Real time 3D image
5.3	Omni directional M-mode, B-mode and Doppler mode
5.4	Hi support-automatically optimize the B-mode and Doppler image parameters (gain, baseline, PRF etc.)
5.5	Picture in picture for both ultrasound and endoscopic image simultaneously
5.6	High definition dynamic tissue harmonic imaging
5.7	High resolution imaging
5.8	Ergonomic operation keyboard
5.9	User programmable calculation package
5.10	Annotation, arrow mark and point display
5.11	Waterproof remote control

- The whole system should function on 50Hz / 220VAC

6. The EBUS system should be supplied with automatic dishwasher for cleansing & disinfection having minimal following specifications:

1	Automatic washing and cleaning of bronchoscopes		
2	Capacity / Basin		
		Basins per system	At least one
		Scopes per basin	At least one
		Basin size	47.0 cm depth x 39.5 cm width (50x40)
		Basin volume	15L (maximum) 12 -15 L
3		Total Cycle Time	15-20 minute per cycle
4	Scope	Loading	Top loading
5	Scope connection required		Yes
6	Applicable Scopes		Olympus / Pentax / Fuginon etc.
7	Filter Media		0.1 to 0.2 micron filter
8	Minimum effecting concentration (MEC) access port		
9	Power Capable of operating on 220V 50Hz AC		

7. Training

7.1	2 weeks training for two at a mutually convenient centre.

8. Essential Accessories

8.1	EBUS puncture needles (10 nos.)
8.2	UPS for backup of the whole system including ultrasound generator
8.3	Mobile trolley to mount the EBUS system and ultrasound
8.4	Quoted rate for disposables, consumables be for next 7 years
8.5	All other essentials / accessories required to make the machine function optimally
8.6	Recording System for review & publication

Item sl. no. 23

Sl.No.	COLOUR DOPPLER ECHOCARDIOGRAPHY SYSTEM WITH ADVANCED 2D FACILITY
1	**Description of Function**
1.1	Colour Doppler Echocardiography System is required to study the anatomical abnormalities and blood flow in the heart and associated vessels.
2	**Operational Requirements**
2.1	Latest generation Electronic Phased array Colour Doppler system with Minimum 30000 Electronic independent channels. System should be DICOM ready and capable of being interfaced with HIS/RIS/ PACS.
2.2	Should be field up gradable to next generation system on site. All new software should be upgraded free of cost for at least 5 years
2.3	Frequency compounding or better technology for better resolution and penetration.
3	Technical Specifications
3.1	Latest generation Electronic Phased array Colour Doppler system with Minimum 30,000 Electronic independent channels.
3.2	256 grey shades for sharp contrast resolutions
3.3	Adult Trans thoracic Cardiac (02 probes), TEE (Adult TEE — 01 each) and Vascular Probes to be supplied which should be latest generation wide band transducers.
3.4	Harmonic Imaging- System should have following modes in harmonic with separate setting for:
a.	Tissue Harmonic
b.	Contrast Harmonic
c.	Harmonic Angio
d.	Quantification of harmonics imaging
e.	Strain rate imaging facility
3.5	Harmonic imaging capability in Adult Cardiac and linear Probe.
3.6	Gain control in two dimensions for additional level of flexibility to image quality control.
3.7	Real time high frequency 2D for higher resolution and low frequency Doppler for higher sensitivity in all probes
3.8	Frame rate should be 300 FPS or more
3.9	Steerable PW/CW in all Phased Array probes.
3.10	High-definition acoustic zoom for enlarging sections of 2D and Colour flow images with more acoustic information for greater clarity and detail while maintaining an optimal frame rate.
3.11	Modes —2D, M-Mode, Steerable PW/CW Doppler, Colour Doppler, and High Definition Colour flow Anatomical M Mode.
3.12	Monitor should be 15" or more, high-resolution colour Monitor.
	Tilt and Swivel monitor should be able to view in all angles and all light conditions.
3.13	Colour Flow Imaging for
a.	Increased lateral & spatial resolution.
b.	Detection of even subtle areas of turbulence, displaying a more physiological blood flow appearance without loss of frame rate.

c.	Colour flow with capability of automatically picking up colour flow as a function of focal depth
3.14	Tissue Colorization (B-Colour) for improved contrast resolution
3.15	Application software for Adultn and Peripheral Vascular and Trans oesophageal applications. (All application package should be built into the system)
3.16	Cine loop memory- more than 120MB of memory or equivalent cine loop memory in frames/ sec.
a.	High Frame rate review for better clarity of playback images study in slow motion.
b.	Quad loop with memory for pre and post image comparison of any procedure.
c.	Memory- 256 frames or more in quad loop. M Mode & Doppler Scroll Memory-40 seconds or more.
d.	Frame grabber facility for post analysis.
3.17	Various maps for pre and post processing.
3.18	ECG trigger facility.
3.19	User defined system and application presets for multi-user department.
3.20	Minimum 4.8 GB optical disc drive for image storage and retrieval. (Standard with system)
3.21	Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and contrast stress protocol usable for stress echocardiography.
3.22	Tissue movement colorization with quantification possibility for IHD/CAD/Heart Failure patients.
3.23	Three or more transducer ports.
3.24	Colour Map resolution up to 128 levels.
3.25	Facility for high definition digital acquisition, review and editing of complete patient studies.
3.26	Facility of Real time perfusion studies
3.27	PC based Peripheral system comprising of dedicated computer at least 500 GB storage space (Hard disc) with 4 GB RAM or more with a Microprocessor speed of more than 3.00 GHz, frame grabber incorporated (All Software Inclusive) interfaced with the echocardiography machine with DVD writer and a high quality Colour Laser printer. CD/DVD produced should be playable on any system.
3.28	Colour M-Mode
4	System Configuration Accessories, spares and consumables
4.1	Colour Doppler System with all application packages Quad loop for serial studies with High frame rate review. Harmonic imaging capability in all modes. (Tissue, Contrast, Anglo) Integrated Stress Echo Package
4.2	Digital Storage and Retrieval device - 01
4.3	Adult Cardiac probe Electronics Phased Array probe, - 01
4.4	Electronics Phased Array Probe for Vascular applications- 01
4.5	Multi plane TEE Probe for Adult echocardiography - 01
4.6	DVD/CD Recorder with 100 CDs and 100 DVDs
4.7	Colour Print Paper- 500 sheets
4.8	ECG Cable - 05
4.9	Laser Colour Printer – 01
5	Environmental factors

5.1	The unit shall be capable of operating continuously in ambient temperature of 30 deg C and relative humidity of 80%.
5.2	Pre Requisites should be clearly spelt out in terms of room requirements.
6	Power Supply
6.1	Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2	Resettable over current breaker shall be fitted for protection
6.3	Online UPS of suitable rating with voltage regulation and spike protection for 30 min back up.
7	Standards, Safety and Training
7.1	Should be US - FDA or European CE approved product
7.2	Manufacturer/Supplier should have ISO certification for quality standards.
8	Documentation
8.1	User manual in English.
8.2	Service manual in English.
8.3	List of important spare parts and accessories with their part number and costing available in stock with the supplier.

Item sl. no. 24

Portable Colour Doppler Echocardiography System
1. It should be a State of the art Digital Technology System & should be cable of performing Imaging applications like Adult, Paeditric Echo Cardio Graphy, Musculoskeletal, Small parts, Urology, Vascular, Transcranial imaging..
2. The system should incorporate facility for High-resolution 2D, M Mode, PW, CW, Colour Flow Imaging, Colour Power Angio Imaging, Directional Colour Power Doppler Imaging modes. System should have Triple Mode simultaneity, all three modes (2D, Colour& Doppler Modes simultaneously).
3. The system should have Colour compare mode, Colour / Colour Power Mode and the normal grayscale mode, side-by-side or equivalent.
4. The equipment should have minimum 1024 Digital Processing Channels or more.
5. The system should have minimum 256 Grayscales or more.
6. All transducers should have Broad Bandwidth Beam former technology for extreme High Resolution 2D Imaging. Frequency range of Transducers should be 1 to 15 Mhz or more. This should be available without the need for frequency switching.
7. The system should have Pulse Inversion Harmonic Imaging for hard to image patients.

8. System should support Trapezoidal imaging on liner probe or equivalent
9. System should support extended field of view imaging or equivalent.
10. Facility for independent steering of B mode and Colour beam on liner probe
11. The system shall provide 200 dB or more full time input dynamic range
12. System should have Pan Zoom facility on live and freeze images
13. Should have one touch image optimization & automatic real-time Doppler tracing
14. System should be new generation ergonomically designs to curve minimum injury to the operator.
15. The system should have an easy to use control panel, which can be raised up and down and also be rotated for use in operation theaters. Should have an alphanumeric keyboard with illuminated keys and status display.
16. The system should have facility for gain adjustments using slide pot controls in both directions including the lateral direction for excellent Image quality or equivalent.
17. The system should be able to support at least three Transducers.
18. System should have a High resolution Non-Interlaced TFT Monitor of 15 inches or more.
19. System should have Image Management facility with facility for direct storage of Images and loops in the Hard Disk Drive and also thumbnail review to view & edit Images, loops and also reports.
20. Storage-should have >2,00,0000 image storage facility in the hard disk drive. Should have inbuilt hard disk for image storage
21. Archive-should have inbuilt CDRW, MO drive and 3 ½" Floppy disc with the facility to transfer images.
22. System should have USB ports.
23. Should have direct connectivity to Inkjet printer for printing images & report
24. The system should have automatic quantification of Doppler parameters to display user-selected measurements.
25. The system should have extensive Calculation software package for general measurement, Ob/Gyn, Cardiac, Vascular, etc.
26. Machine should be European CE or US FDA approved

Equipment with above features to be offered with the following Broad Bandwidth Probes
• Linear Array Transducer with frequency range between 3 to 12 Mhz with tissue harmonic imaging will be preferred
• Phased Array Probe with frequency range between 2 to 4 Mhz for Adult Cardiac &Transcranial Imaging applications.
• Phased Array Probe with frequency range between 3 to 8Mhz for Paed. Cardiac Imaging applications.
• B/w Thermal Printer of latest model.
• Colour inkjet Printer for direct printing of Images from the system.
• Online UPS of 2 KVA or more rating of **reputed brand** should be provided with the system

Item sl. no. 25

Bronchoscopy Simulator

- 3D interactive models
- Height adjustment facility of the platform for comfortable insertion of tube / channel
- Touch Sense Haptic Feedback technology with Didactic content to mimic live situation
- Sound effect of patient response
- Fluoroscopic view
- 2 dual Flat Screen of at least 21" size
- Mannequins for easy switching between internal and external view of tracheobronchial tree
- Oral and nasal scope insertion facility
- Should be supplied with all the essential tools for Bronchoscopy such as (Endobronchial Ultrasound) guided TBNA aspiration
- Should have dynamic force feedback
- Realstic physiological responses and tool behavior
- Extensive Bronchoscopy curriculum
- Wide range of normal and pathological anatomical variations
- Should have virtual anatomic aids
- Comprehensive performance metrics systems
- Administrator friendly course planning features
- Customizable case parameters
- Case studies should be devised from real patients
- Should be capable to upgrade for Upper GI and Lower GI Modules
- Should be networkable and capable of connecting to central control room
- Training to be done free of cost by the company
- Should have dedicated company's Customer Support Representative in India to handle break down of the system.

The Bronchoscopy Simulator should possess following Procedural Module:

- Introduction to Bronchoscopy – This is an exploratory procedure that will determine what is the step to follow which can be a biopsy, lab work, CAT scans etc.

- Bronchoalveolar Lavage for the management of pneumonia in patients which include 25cc of sterile normal saline is placed into specified bronchial segment and using cytology tools for lab culture
- Endobronchial sampling using biopsy forceps
- Transbronchial Needle aspiration
- Pediatric difficult Airways
- Latest procedure for lung cancer diagnosis that combines the reading of Ultrasound images with Transbronchial Needle Aspiration (EBUS-TBNA)
- Power
  Capable of operating on 220 V 50 Hz AC
  Online UPS of appropriate rating for the entire system

Item sl. no. 26

High End Colour Doppler

1. The system should be latest state of the art **high-end** with full digital technology and should be for the whole body applications which would include abdominal, peripheral vascular, small parts imaging such as Thyroid, Intra-cavity applications, etc. System should be trolley mounted. The equipment must be **European CE / US FDA** approved.

2. The system should incorporate facility for high resolution 2D, 3D, 4D, M-mode, PW, HPRF PW, Color Doppler imaging, Power Doppler imaging, Duplex & Triplex imaging modes. The system should be capable of simultaneous dual display of B-mode & color mode.

3. All transducers should have Broad Bandwidth technology for extremely high resolution imaging. Frequency range of Transducers should be 2-17 MHz or more. All transducers should have multi frequency selection (Preferably more than three).

4. The system shall have three or more universal transducer ports with electronic switching capability allowing any transducer to be connected to any port.

5. The system should have 30000 or more digital processing channels and the system should have 256 Grey Scale or more.

6. The system should have a scanning depth of 28 cm or more.

7. The system should have a high dynamic range more than 180 dB.

8. The system should be able to support at least 3 transducers with universal ports allowing electronic switching between transducers.

9. The system should support Convex, Linear, Sector & Mechanical/Electronic Volume Probes.

10. The system should have a very high frame rate of at least 500 frames per second in B mode and more then 300 fps in Color mode. Please specify.

11. The system must have integrated high-resolution TFT/LCD monitor of 19 inches or more with tilt and swivel facility.

12. The system should have Tissue Harmonic imaging & should be available in Convex, Linear, Sector & Volume probes.

13. The system should be able to work in combined mode of Harmonic Imaging and Real time Compound Imaging to get excellent Image quality. The system shall offer Tissue Harmonic Imaging in Power Doppler Imaging mode.
14. The system should have contrast Harmonic Imaging and should have optimization settings to detect the Contrast Agents.

15. The system should have real time frequency and Spatial Compound imaging technology with multiple lines of sight to obtain the image at real time frame rates for improved visualization and better image quality.

16. The system should have image processing algorithms to analyze between targets and artifacts so as to sharpen target anatomy and reduce the speckle and artifacts for improved image quality.

17. The system should have a full alphanumeric keyboard.

18. The system should have cine loop review facility in individual and mixed modes cine loop greater than 4000 frames and greater than 30 seconds of spectral Doppler and M mode. System should have 120 GB or more HDD.

19. The system should have the facility of digital storage and retrieval of B/W and color image data on built-in CD / DVD Drive.

20. Power Doppler Angio for perfusion studies should be available for visualization of flow in small vessels and system should be able to acquire flow in small blood vessels at very high frame rate.

21. The system should have automatic gain and STC/TGC controls in B-mode and velocity range and base line shift for Doppler through one touch operation.

22. The system should have trapezoidal imaging and steerable imaging for 2D image, Color box & Doppler with linear probe. Please mention the angle of steering for 2D & Color Box.

23. The system should have Panoramic imaging.

24. Whole body real time Elastography with quantification should be available with convex, linear and TV/TR Probes.

25. The System should be DICOM ready.

26. The system should have advanced 3D imaging package with the following:
    a) Multi planner Views (MPR).
    b) Surface & Volume rendering.
    c) 3D grey scale (B-mode).
    d) 3D power angio mode & 3D Color Doppler Mode.

27. The system should have Advanced 4D imaging package such as Live 4D, Single sweep, Multi-view (CT slice technology), STIC, Cavity mode etc. and system should be able to support all type of volume probes such as Convex Volume, TVS Volume Probe & Linear volume probe.

28. The system should have automatic real time quantification of Doppler Parameters like velocity, frequency, time, heart rate, slope, flow volume, pulsatility index, resistivity index, peak velocity, average volume, point value, area and diameter flow volume etc.

29. The system should have support real time acquisition and display of two image planes simultaneously with color by incorporating electronic/mechanical volume Transducer for this function.

30. The system should have extensive calculation software package for general measurements, OB/Gynae, Vascular, small parts & cardiac application.

31. Equipment with above mentioned features to be offered with following broad bandwidth probes & accessories :
    A. Broad band convex array transducer with frequency ranges 2-5 MHz. or better.
    B. Broad band linear array probe with frequency range 7-17 MHz. or better.
    C. Broad band trans-vaginal / trans rectal probe with frequency range 5-9 MHz. or better.
    D. Convex Volume probe with frequency range 2-6 MHz. or better.
    E. Color Laser Printer.
    F. B & W thermal printer with 10 high density paper rolls.
    G. 2.0 KVA on line UPS for complete unit with 30 min. backup.

32. Please attach the original manufacture's product catalog and datasheets, photocopied, computer generated catalogue and datasheet will not be accepted.

33. List of installations - the bidders to provide list of installations of the quoted model (in National and International).

34. The short listed bidders will have to give demonstration of their quoted model before finalizing the evaluation of their bids.

35. **Third Party Inspection Report: -** The firm will get the third party inspection of the equipment done at its own cost certifying that the equipment is brand new and as per NIT / Specifications / supply order.

Item sl. no. 27

Holter Monitor with Four Recorders

SL.No.	Holter recorder / Analysis Software + Hardware General with Four Recorder
1	It should have US FDA or European CE approved
2	It should meet and exceed the requirements of ANSI / AAMI EC 38

A	**Holter Recorders**
1	It should be small and lightweight recorder
2	It should be capable of simultaneous real time acquisition of 3 channel and 12 channel recording.
3	Recorder should have LCD display to preview ECG waveforms during the patient hook up and have lead quality check function.
4	it should have capability of continuous recording for 24 hours and 48 hours / 7 days.
5	It should have at least 24 hours with single battery.
6	The recorder should be water resistant.
7	Recorder should be battery operated and have single AA/AAA battery or rechargeable in built sealed battery with recharging unit supplied.
8	It should have internal memory for 99 full disclosure readings.
9	It should have advanced signal processing algorithms to provide superior accuracy in beat detection, labelling and noise rejection.
10	It should be a 12 channel analyzing system.
11	It should have capacity to download 24 hours data through USB port / standard connection port in less than 3 minutes.
12	Device should be defibrillator protected.
13	Recorder should have 1000s/sec/channel digital sampling rate for standard recording and internal storage.
14	Recorder should have compact flash card memory card.
15	It should be capable of pacemaker spike detection.
16	It is preferable if it supports voice recording capability.
17	It should include 2 sets of electrodes and patient cable to enable 3 and 12 channel recording.
18	It should come in 2 sets of patient hook up pouch and hook up
B	**Accessories.**
1	Should include compact flash card as required for each recorder with adequate capacity to store entire recording cycle.
2	It should include cable for connecting and downloading data to PC.
3	It should include compatible flash card reader.
4	It should include users guide and Service manual as well as quick guide and patient hook up instruction posters for easy reference and use.
5	It should include 100 sets of patient event recording diary and pens.
6	Patient cable should be provided with each recorder
C	**Analysis software + Hardware.**
1	It should have multiple scanning options like retrospective, prospective and superimposition scanning modes, event and template review and be customizable.
2	It should have facility to convert final report into PDF and XML format that enables connectivity to data management systems.
3	It should have trend graphs for HR, RR interval, RR variance, 12 lead ST, SVPB, VPBetc and provide graphic display options.
4	It should have different beat classifications.

5	It should have various rhythm analysis and ST measurements.
6	It should have 3 and 12 lead ST segment measurement analysis.
7	It should be capable of Pacemaker analysis including atrial, ventricular and dual chamber pacing and under / over sensing and capture failure.
8	It should support customizable report format including patient data, 24 hour profile, selective printing of rhythm strips and trends,summary statistics in tabular and narrative format and support user defined acronyms for comments.
9	The PC + Printer provided should be Latest Processor of 2.5 GHz and above and include minimum hard disk of 500 GB, DVD+RW drive or Blue Ray disc writer, USB port, 4GB RAM or above ,15" or above TFT colour monitor, Laser printer.
10	It should have capacity to archive into hard disk and DVD+RW /High density DVD / Blue Ray disk.
11	It should include licensed operating software for ready to use status along with reliable antivirus software. These should have back up provided on CD / DVD.
12	It should include external data backup / archiving facility and hardware.

Item sl. no. 28
Cerebral Function Monitor

- Should provide amplitude integrated EEG record of overall electro cortical background activity of brain.
- Should display one channel EEG in real time with adjustable speed and amplitude.
- Should use 3 electrodes to measure single channel amplitude EEG.
- Compressed amplitude EEG should be displayed at a speed of 1mm/ minute
- It should be able to detect seizures (including sub clinical) and determine severity, duration and frequency to assist in management of anticonvulsive therapy.
- It should be able to distinguish real signals and patterns from artifacts.
- Should allow to view the underlying EEG trace corresponding to a point on CFM tracing by just touching the trace on the screen.
- Should have facility to scroll the tracing backward or forward.
- Should have on screen display of at least three hours of cerebral function monitoring trace.
- It should be capable of continuously recording for up to 30 days.
- Should have internal memory to store data for 20000 hrs of monitoring to maintain complete patient file management.
- Should be simple and easy to operate with LCD touch screen display.
- Should have inbuilt CD writer for archiving patient files and software updates.
- Should have inbuilt printer to print traces & other patient information.
- Monitor should be supplied complete with Cart, Thermal Paper, Electrode needles 100 nos.
- Necessary power supplies like CVT, Servo Voltage Stabilizer, etc. to be supplied by the firm.
- Training package for two staff members is preferable.

Item sl. no. 29

Neonatal Cooling System

1. Micro-processor base servo-controlled neonatal cooling-warming system
2. Should be able to cool body up to 30 ºC.
3. Ability to re-warm body to normal temperature at a user selected rate
4. Should monitor esophageal or rectal temperature and use that for servo control.
5. Continuous display of set temperature, measured temperature of esophagus or rectum, measured temperature of skin, measured temperature of mattress
6. Alarm for high and low temperature if deviation from target temperature>1ºC, electricity failure and system failure
7. System should be mounted on a sturdy compact trolley with castor wheels and breaks
8. Ability to transfer data to portable media/computer. If any software or cables needed for this, they should be supplied
9. Memory of set and measured parameters for at least 72 h
10. If the system needs fluid for cooling, the fluid should be safe for baby's skin and its composition should be provided
11. Essential accessories:
    a. Rectal/esophageal temperature probes: 2 Nos. with each system
    b. Skin temperature probes: 2 Nos. with each system
    c. Reusable cooling interface for baby: 2 Nos. with each system
    d. Mattress repair kit 1 No. with each system
    e. If system needs disposable interface/chemicals then provide quantity adequate for 50 patients with each machine

12. List of essential accessories should be provided and quoted separately. Prices so quoted to be frozen for 5 years.
13. Original literature, and not the photocopy, to be supplied with the quotation.
14. Company should certify that model quoted is latest and not obsolete, and spares will be available for next 5 years after the completion of warranty.

Item sl. no. 30

Scanning Laser Photocoagulator (Imported)

- Laser: 577 nm diode Pumped solid state
- Patterns- Single spot, square arrays, single arc, triple arc, full and partial macular grid
- Power- 0 to 2000 mW
- Power control- Dual slit lamp mounted controls and touch screen user interface
- Treatment pulse duration- 10 to 1000 ms, continuous wave – Micro pulse.
- Delivered sport size- 50-500 µm single spot, 100µm to 500µm multisport
- Pattern position control- Determined by joystick and electronic micromanipulator
- Touch screen control display pattern mounted on slit lamp table
- Slit lamp dedicated and integrated.
- Slit lamp table-ergonomically designed and wheel chair accessible, motorized adjustable height.

- Table dimensions- at least 125 cm widex 75 cm deepx 71-96 cm high
- Scanning Laser delivery system components-Scanning slit lamp adaptor with control box
- UPS- On line 2 KVA, 2 hrs backup with maintenance free batteries
- 1.5 Ton window AC with CVT of requisite capacity
- **Electricity power requirement**
  i) Line voltage -50Hz, 220 V to 240 VAC fitted with Indian plug
  ii) Resettable overcurrent breaker should be fitted for protection
  iii) Voltage corrector/stabilize of appropriate ratings meeting ISI Specifications. (Input 160-260 V and output 220-240 V and 50 Hz)

- Should be FDA, CE, UL or BIS approved product
- **Environmental factors**
  i) The unit should be capable of being stored continuously in ambient temperature of 0-50 deg C and relative humidity of 15-90%
  ii) The unit should be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%.
- Documentation
  - List of important spare parts and accessories with their part number and costing.

Item sl. no. 31

Optical Coherence Tomography (Imported)

- Spectral Domain optical Coherence Tomography technology
- Should be able to provide high resolution images of the retina;
- Should have enhanced depth imaging capability for choroidal imaging and analysis
- Should additively be able to acquire fundus reflectance images
- Has a eye tracking and noise reduction technology.
- Should be able to acquire images at speed of >25000 A scans/sec.
- UPS- On line 2 KVA, 2 hrs backup with maintenance free batteries
- 1.5 Ton window AC with CVT of requisite capacity
- **Electricity power requirement**
  i) Line voltage -50Hz, 220 V to 240 VAC fitted with Indian plug
  ii) Resettable overcurrent breaker should be fitted for protection
  iii) Voltage corrector/stabilize of appropriate ratings meeting ISI Specifications. (Input 160-260 V and out put 220-240 V and 50 Hz)

- Should be FDA, CE, UL or BIS approved product
- **Environmental factors**
  i) The unit should be capable of being stored continuously in ambient temperature of 0-50 deg C and relative humidity of 15-90%
  ii) The unit should be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%.
- Documentation
  - List of important spare parts and accessories with their part number and costing.

Item sl. no. 32

Operating Microscope (Imported)

1. Halogen/Xenon/LED light source with stand with lamp housing.
2. Magnification- 5x to at least 12x.
3. Inclinable Surgeon's converging binocular microscope with high eye point piece with adjustable IPD.
4. Working distance- minimum 175mm.
5. Preferably with Motorized Zoom, X-Y movement and centering.
6. Sterilizable Knob covers (2 sets)
7. Spare bulbs (12 Nos.)
8. Proof of installation in reputed institutions.

Item sl. no. 33

Pleura Video Scope

1.	Field of View	120"
2.	Distal end Outer diameter	7.0 mm
3.	Insertion tube Outer diameter	7.0 mm
4.	High Frequency Compatibility	Yes
5.	Angulation Range	Up 160 & Down 130"
6.	Depth of Field	3-100 mm
7.	Working length	270 mm
8.	Channel Inner Diameter	2.8 mm
9.	Total Length	520 mm
10.	Laser Compatibility	YAG 810 mm diode

Item sl. no. 34

Endoscopy Teaching Models/Simulator for endoscopy teaching Lab

- Video teaching of Fiberoptic bronchoscope
- Endo Bronchial Ultrasound (EBUS)
- G.I endoscopy
- Thoracic Ultrasound

Item sl. no. 35

Carbon Dioxide Ultrapulse Laser (Fractional CO_2 Laser)

- Wevelength 10600 nm
- Should have fractional, incisional and excisional capabilities for skin. Cutting, slough removal and skin resurfacing
- Power 60 watt
- Continuous wave and ultra-pulse
- Non sequential pulsing
- Pulse energy 2-225 mj (adjustable)
- User selectable repetition rate 1-1000 pulses/sec
- Time range 1 ms to 1 sec
- Repeat delay of 0.1 to 5.0 seconds
- Pulse width <2 ms (varies with pulse energy)
- 5-100% coverage/pass
- Depth of penetration: upto 2000 micrometers/pulse
- Computer pattern generator (CPG) gun
- Scan area upto 10 mm x 10 mm
- Micro scanner
- Micro manipulator
- Transmission by durafite articulated arm, 360 degree rotation 1.5 metress (5')
- Aiming beam of helium or diode laser 635 nm, 5 mW, adjustable intensity, on/off lasing, blink on/off
- Self-contained, closed cycle should have cooling system
- Online ups of 6 KVA should be applied
- 10 safety goggles
- 2 sets of eye shield and corne shield
- 1turbo smoke evacuator
- True collimated hand piece
- Fractional hand pieces: spot size 0.2 mm and 1 mm hand pieces
- Lens cleaning paper
- Should have service center in India
- Should be CE and FDA approved

Item sl. no. 36

Diode Laser for Permanent Hair Reduction

- Spectrum 800 nm
- Energy density (fluence) 10-100 J/cm^2
- Pulse duration 5-400 msec
- Repetition rate 2 Hz
- Spot size 9-12 mm
- Cooling – self-contained, closed cycle
- Peak power 1600-2900W

GENERAL TECHNICAL SPECIFICATIONS

GENERAL POINTS:

1. Warranty:

   a) Comprehensive Warranty as per Conditions of Contract of the TE document for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) Warranty period will start from the date of installation, commissioning and Turnkey Work from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/ Institution/ Medical College.
   b) 98% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.
   c) All software updates should be provided free of cost during Warranty period.

2. After Sales Service:

   After sales service centre should be available at the city of Hospital/Institution/Medical College on 24 (hrs) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 8 hrs. The service should be provided directly by Tenderer/Indian Agent. Undertaking by the Principals that the spares for the equipment shall be available for at least 10 years from the date of supply.

3. Training:

   On Site training to Doctors/ Technicians/ staff is to be provided by Principal/ Indian Agents (if they have the requisite know-how) for operation and maintenance of the equipment to the satisfaction of the consignee. The same will be in line with the training modalities as specified in general technical specification.

4. Annual Comprehensive Maintenance Contract (CMC) of subject equipment with Turnkey:

   a) The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual of the manufacturer, labour and spares, after satisfactory completion of Warranty period on yearly basis for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) and Turnkey (if any). The supplier shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, but at least once in six months during the CMC period
   b) The cost of CMC must be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
   c) Cost of CMC will be added for Ranking/Evaluation purpose. The same will be taken at Net Present Value with a 10% discounting factor each year.
   d) The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by end user on receipt of bank guarantee for 2.5 % of the cost of the equipment as per Section XV valid till 2 months after expiry of entire CMC period.
   e) There will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
   f) During CMC period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
   g) All software updates should be provided free of cost during CMC.

h) Failure of the above [4.e) to 4.g)] by the supplier, may lead to the forfeiture of the Bank Guarantee for Annual CMC.
i) The payment of CMC will be made as stipulated in GCC Clause 21.

Turnkey:

Turnkey is indicated in the technical specification of the respective items, wherever required. The Tenderer shall examine the existing site where the equipment is to be installed, in consultation with HOD of Hospital/Institution/Medical College concerned. Turnkey details of each Hospital/Institution/Medical College are given at the end of Technical Specification. The Tenderer to quote prices indicating break-up of prices of the Machine and Turnkey Job of each Hospital/ Institution/ Medical College. The Turnkey costs may be quoted in Indian Rupee will be added for Ranking Purpose.

The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.

The Turnkey Work should completely comply with AERB requirement, if any.

Note 1: Tenderer's attention is drawn to GIT clause 18 and GIT sub-clause 11.1 A (iii). The tenderer is to provide the required details, information, confirmations, etc. accordingly failing which its tender is liable to be ignored.

Note 2: General: Bidders are requested to make sure that they should attach the list of equipments for carrying out routine and preventive maintenance wherever asked for and should make sure that Electrical Safety Analyzer / Tester for Medical equipments to periodically check the electrical safety aspects as per BIS Safety Standards IS-13540 which is also equivalent to IEC electrical safety standard IEC-60601 is a part of the equipments. If the Electrical Safety Analyzer/Tester is not available they should provide a commitment to get the equipments checked for electrical safety compliance with Electronic Regional Test Labs / Electronics Test and Development Centres across the country on every preventive maintenance call.

Note 3: **OPTIONAL ITEMS:** Bidders are requested to quote for all the available options as asked in the bidding document with reasonable pricing. However the pricing for optional items will not be considered for price comparison for ranking purpose. If the firm has not quoted for any optional item (except the items of turnkey) their offer will be treated as TECHNICALLY RESPONSIVE if otherwise meeting the specification.

Note 4: Adequate training of personnel and non-locked open software and standard interface interoperability conditions for networked equipment in hospital management information system (HMIS)

The successful tenderer will be required to undertake to provide at his cost technical training for personnel involved in the use and handling of the equipment on site at the institute immediately after its installation. The company shall be required to train the institute personnel onsite for a minimum period of 1 month

All software updates should be provided free of cost during warranty period and CMC period

Section – VIII
Quality Control Requirements

(Proforma for equipment and quality control employed by the manufacturer(s)

Tender Reference No.

Date of opening

Time

Name and address of the Tenderer:

Note: All the following details shall relate to the manufacturer(s) for the goods quoted for.

01 Name of the manufacturer
- a. full postal address
- b. full address of the premises
- c. telegraphic address
- d. telex number
- e. telephone number
- f. fax number

02 Plant and machinery details

03 Manufacturing process details

04 Monthly (single shift) production capacity of goods quoted for
- a. normal
- b. maximum

05 Total annual turn-over (value in Rupees)

06 Quality control arrangement details
- a. for incoming materials and bought-out components
- b. for process control
- c. for final product evaluation

07 Test certificate held
- a . type test
- b . BIS/ISO certification
- c . any other

08 Details of staff
- a. technical
- b skilled
- c unskilled

Signature and seal of the Tenderer

Section – IX
Qualification Criteria

1. The tenderer must be a manufacturer. In case the manufacturer does not quote directly, they may authorise their authorized agent as per proforma of Manufacturer authorization form as given in the tender enquiry document to quote and enter into a contractual obligation.

2. (a) The Manufacturer should have supplied and installed in last **Five** years from the date of Tender Opening, at least 33% of the quoted quantity of the similar equipment meeting major parameters of technical specification which is functioning satisfactorily.

2. (b) The Tenderers quoting as authorized representative of the manufacturer meeting the above criteria 2(a) should have executed at least one contract in the last five years from the date of tender opening of similar equipment meeting major parameters of technical specification which is functioning satisfactorily, anywhere in India of the same manufacturer

Note:

1. The tenderer shall give an affidavit as under:

   "We hereby certify that if at any time, information furnished by us is proved to be false or incorrect, we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the earnest money."

2. In support of 2 (a) & 2 (b), the Tenderer shall furnish Performance statement in the enclosed Proforma 'A'.

   The manufacturer (Tenderer) / Indian Agent shall furnish Satisfactory Performance Certificate in respect of above, duly translated in English and duly notarized in the country of origin, alongwith the tender.

3. The Tenderer shall furnish a brief write-up, packed with adequate data explaining and establishing his available capacity/capability (both technical and financial) to perform the Contract (if awarded) within the stipulated time period, after meeting all its current/present commitments. The Tenderer shall also furnish details of Equipment and Quality Control in the enclosed Section VIII.

4. Notwithstanding anything stated above, the Purchaser reserves the right to assess the Tenderer's capability and capacity to perform the contract satisfactorily before deciding on award of Contract, should circumstances warrant such an assessment in the overall interest of the Purchaser.

5. **The Purchaser reserves the right to ask for a free demonstration of the quoted equipment at a pre determined place acceptable to the purchaser for technical acceptability as per the tender specifications, before the opening of the Price Tender.**

PROFORMA 'A'

PROFORMA FOR PERFORMANCE STATEMENT

(For the period of last five years)

Tender Reference No. : _____

Date of opening : _____

Time : _____

Name and address of the Tenderer : _____

Name and address of the manufacturer : _____

Order placed by (full address of Purchaser/ Consignee)	Order number and date	Description and quantity of ordered goods and services	Value of order (Rs.)	Date of completion of Contract		Remarks indicating reasons for delay if any	Have the goods been functioning Satisfactorily (attach documentary proof)**
				As per contract	Actual		
1	2	3	4	5	6	7	8

We hereby certify that if at any time, information furnished by us is proved to be false or incorrect, we are liable for any action as deemed fit by the purchser in addition to forfeiture of the earnest money.

Signature and seal of the Tenderer

**** The documentary proof will be a certificate from the consignee/end user with cross-reference of order no. and date in the certificate along with a notarized certification authenticating the correctness of the information furnished.**

**** The bidders are requested to submit the latest purchase order copies issued by AIIMS, PGIMER, JIPMER, Institute of National importance, Reputed Corporate Hospitals for the specific model quoted along with the price bid.**

Section – X
TENDER FORM

Date_____

To

Head (P&CD), HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector - 62, Noida -201307, Uttar Pradesh

Ref. Your TE document No. _____dated _____

We, the undersigned have examined the above mentioned TE document, including amendment/corrigendum No. _____, dated _____ (*if any*), the receipt of which is hereby confirmed. We now offer to supply and deliver_____ *(Description of goods and services)* in conformity with your above referred document for the sum as shown in the price schedules attached herewith and made part of this tender. If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V – "Special Conditions of Contract", for due performance of the contract.

We agree to keep our tender valid for acceptance as required in the GIT clause 20, read with modification, if any in Section - III – "Special Instructions to Tenderers" or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities.

We confirm that we fully agree to the terms and conditions specified in above mentioned TE document, including amendment/ corrigendum if any

(Signature with date)

(Name and designation) Duly authorised to sign tender for and on behalf of

SECTION – XI PRICE SCHEDULE

A) PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA

1	2	3	4	5							6
				Price per unit (Rs.)							
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Ex - factory/ Ex -warehouse /Ex-showroom /Off - the shelf (a)	Packing and Forwarding charges (b)	Excise Duty (if any) [%age & value] (c)	Sales Tax/ VAT (if any) [%age & value] (d)	Inland Transportation, Insurance for a period including 3 months beyond date of delivery, loading/ unloading and Incidental costs till consignee's site (e)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site (f)	Unit Price (at Consignee Site) basis (g) =a+b+c+d+e+f	Total Price (at Consignee Site) basis (Rs.) 4 x 5(g)

Total Tender price in Rupees: _____

In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C

Name_____

Business Address_____

Place: _____ **Signature of Tenderer**_____

Date: _____ **Seal of the Tenderer**_____

B) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

1	2	3	4	5					6
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Currency)					Total price on CIP Named Port of Destination + Insurance (local transportation and storage) 4X 5 (e)
				FOB price at port/ airport of Lading (a)	Freight & Insurance (port of loading to port of entry) and other Incidental costs (b)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site (c)	Extended Insurance (local transportation and storage) from port of entry to the consignee site for a period including 3 months beyond date of delivery** (d)	Unit Price on CIP Named Port of Destination + Extended Insurance (local transportation and storage) (e) = a+b+c+d	

** To be paid in Indian Currency (Rs.)
Total Tender price in foreign currency: _____
In words: _____

Note: -

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C
3. The Tenderer will be fully responsible for the safe arrival of the goods at the named port of entry in good condition as per terms of CIP as per INCOTERMS, if applicable
4. Custom duty @ 11.76% and 2% C& F charges will be added to the CIP price to arrive at the DDP price for evaluation purpose.

Indian Agent:
Indian Agency Commission ___% of FOB
Signature of Tenderer_____

Name_____
Business Address_____
Signature of Tenderer_____
Seal of the Tenderer_____

Place: _____
Date: _____

C) PRICE SCHEDULE FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD

1	2	3	4						5	6
Schedule No.	**BRIEF DESCRIPTION OF GOODS**	**QUANTITY (Nos.)**	**Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.**						**Total Annual Comprehensive Maintenance Contract Cost for Each Unit for 6 years**	**Annual Comprehensive Maintenance Contract Cost for 6 years**
			1st	**2nd**	**3rd**	**4th**	**5th**	**6th**	**(4a+4b+4c+4d+4e+4f)**	**(3 x 5)**
			a	**b**	**c**	**d**	**e**	**f**		

*** After completion of Warranty period**

NOTE:-

1. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
2. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period must be quoted for next 6 years on yearly basis for complete equipment and Turnkey (if any).
3. The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. **"Whether service tax on CMC is inclusive or extra, if extra, indicate the present rate....."**. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
4. Cost of CMC will be added for Ranking/Evaluation purpose.
5. The payment of CMC will be made as per clause GCC clause 21.1 (D).
6. The uptime warranty will be 98% on 24 (hrs) X 7 (days) X 365 (days) basis or as stated in Technical Specification of the TE document.
7. All software updates should be provided free of cost during CMC period.
8. The stipulations in Technical Specification will supersede above provisions
9. The supplier shall keep sufficient stock of spares required during Annual Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Name_____
Business Address_____
Signature of Tenderer_____
Seal of the Tenderer_____

Place: _____
Date: _____

D) PRICE SCHEDULE FOR TURNKEY

Schedule No.	BRIEF TURNKEY DESCRIPTION OF GOODS	CONSIGNEE CODE	Turnkey price

Note: -

1. The cost of Turnkey as per Technical Specification (Section VII) may be quoted on lump sum along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
2. Cost of Turnkey will be added for Ranking/Evaluation purpose.
3. The payment of Turnkey will be made as per clause GCC clause 21.1 (c).
4. The stipulations in Technical Specification will supersede above provisions

Name_____

Business Address_____

Place: _____ **Signature of Tenderer**_____

Date: _____ **Seal of the Tenderer**_____

SECTION – XII
QUESTIONNAIRE

Fill up the Section XX – Check List for Tenderers and enclose with the Tender

1. The tenderer should furnish specific answers to all the questions/issues mentioned in the Checklist. In case a question/issue does not apply to a tenderer, the same should be answered with the remark "not applicable".

2. Wherever necessary and applicable, the tenderer shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.

3. In case a tenderer furnishes a wrong or evasive answer against any of the question/issues mentioned in the Checklist, its tender will be liable to be ignored.

SECTION – XIII

BANK GUARANTEE FORM FOR EMD

Whereas _____ (hereinafter called the "Tenderer") has submitted its quotation dated _____ for the supply of _____ (hereinafter called the "tender") against the purchaser's tender enquiry No. _____ Know all persons by these presents that we _____ of _____ (Hereinafter called the "Bank") having our registered office at _____ are bound unto _____ (hereinafter called the "Purchaser) in the sum of _____ for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this _____day of _____ 20____. The conditions of this obligation are:

1) If the Tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
2) If the Tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-

   fails or refuses to furnish the performance security for the due performance of the contract or
   fails or refuses to accept/execute the contract or
   if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged

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

This guarantee will remain in force for a period of forty-five days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

…….
(Signature with date of the authorised officer of the Bank)
…….
Name and designation of the officer
…….
…….
Seal, name & address of the Bank and address of the Branch

SECTION – XIV

MANUFACTURER'S AUTHORISATION FORM

Head (P&CD),
HLL Lifecare Limited, Procurement and Consultancy Division
B-14 A, Sector -62, Noida -201307, Uttar Pradesh

Dear Sir,

Ref: Your TE document No _____ dated _____

We, _____ who are proven and reputable manufacturers of_____(*name and description of the goods offered in the tender*) having factories at_____, hereby authorise Messrs_____(*name and address of the agent*) to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also state that we are not participating directly in this tender for the following reason(s):
_____ *(please provide reason here).*

We further confirm that no supplier or firm or individual other than Messrs. _____ (*name and address of the above agent*) is authorised to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.
We also hereby extend our full warranty, CMC as applicable as per clause 15 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorised agent

We also confirm that the price quoted by our agent shall not exceed the price which we would have quoted directly"

Yours faithfully,

[*Signature with date, name and designation*]
for and on behalf of Messrs_____
[*Name & address of the manufacturers*]

***Note*: 1. This letter of authorisation should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.**
2. Original letter may be sent.

SECTION – XV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY

Head (P&CD),
HLL Lifecare Limited, Procurement and Consultancy Division
B-14 A, Sector -62, Noida -201307, Uttar Pradesh

WHEREAS _____ (Name and address of the supplier) (Hereinafter called "the supplier") has undertaken, in pursuance of contract no_____ dated _____ to supply (description of goods and services) (herein after 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 scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to 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 limits 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.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee shall be valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum 30 months from the date of Notification of Award i.e. up to ---------- (indicate date)

…….
(Signature with date of the authorised officer of the Bank)
…….
Name and designation of the officer
…….
…….
Seal, name & address of the Bank and address of the Branch

SECTION – XVI

CONTRACT FORM - A

CONTRACT FORM FOR SUPPLY, INSTALLATION, COMMISSIONING, HANDING OVER, TRIAL RUN, TRAINING OF OPERATORS & WARRANTY OF GOODS

(Address of the Purchaser's/Consignee's
office issuing the contract)

Contract No_____ dated_____

This is in continuation to this office's Notification of Award No_____ dated _____

1. Name & address of the Supplier: _____
2. Purchaser's TE document No_____ dated_____ and subsequent Amendment No_____, dated_____ (if any), issued by the purchaser
3. Supplier's Tender No_____ dated_____ and subsequent communication(s) No_____ dated _____ (if any), exchanged between the supplier and the purchaser in connection with this tender.
4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:

   (i) General Conditions of Contract;
   (ii) Special Conditions of Contract;
   (iii) List of Requirements;
   (iv) Technical Specifications;
   (v) Quality Control Requirements;
   (vi) Tender Form furnished by the supplier;
   (vii) Price Schedule(s) furnished by the supplier in its tender;
   (viii) Manufacturers' Authorisation Form (if applicable for this tender);
   (ix) Purchaser's Notification of Award

   Note: The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under clause 1 of Section II – 'General Instructions to Tenderers' of the Purchaser's TE document shall also apply to this contract.
5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:
   (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

Schedule No.	Brief description of goods/services	Accounting unit	Quantity to be supplied	Unit Price	Total price	Terms of delivery

Any other additional services (if applicable) and cost thereof: _____
Total value (in figure) _____ (In words) _____

(ii) Delivery schedule
(iii) Details of Performance Security
(iv) Quality Control
  (a) Mode(s), stage(s) and place(s) of conducting inspections and tests.
  (b) Designation and address of purchaser's inspecting officer
(v) Destination and despatch instructions
(vi) Consignee, including port consignee, if any

6. Warranty clause
7. Payment terms
8. Paying authority

_____

(Signature, name and address
of the Purchaser's/Consignee's authorised official)
For and on behalf of_____

Received and accepted this contract
(Signature, name and address of the supplier's executive
duly authorised to sign on behalf of the supplier)

For and on behalf of _____
(Name and address of the supplier)
(Seal of the supplier)
Date: _____

Place: _____

CONTRACT FORM – B

CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT

Annual CM Contract No._____ dated_____
Between

(Address of Head of Hospital
And

(Name & Address of the Supplier)

Ref: Contract No_____ dated_____ (Contract No. & date of Contract for supply, installation, commissioning, handing over, Trial run, Training of operators & warranty of goods)

In continuation to the above referred contract

a) The Contract of Annual Comprehensive Maintenance is hereby concluded as under: -

1	2	3	4						5
Schedule No.	**BRIEF DESCRIPTION OF GOODS**	**QUANTITY. (Nos.)**	**Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.**						**Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e+4f)]**
			1st	**2nd**	**3rd**	**4th**	**5th**	**6th**	
			a	**b**	**c**	**d**	**e**	f	

Total value (in figure) _____ (In words) _____

b) The CMC commence from the date of expiry of all obligations under Warranty i.e. from_____ (date of expiry of Warranty) and will expire on _____ (date of expiry of CMC).

c) The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period may be quoted for next 6 years as contained in the above referred contract on yearly basis for complete equipment (including X ray tubes, Helium for MRI, Batteries for UPS, other vacuumatic parts, _____ & _____) and Turnkey (if any).

d) There will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.

e) During CMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/ technical/ operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.

f) All software updates should be provided free of cost during CMC.

g) The bank guarantee valid till _____ [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs. _____ [(fill amount) equivalent to 2.5 % of the cost of the equipment as per contract] shall be furnished in the prescribed format given in Section XV of the TE document, along with the signed copy of Annual CMC within a period of 21 (twenty one) days of issue of Annual CMC failing which the proceeds of Performance Security shall be payable to the Purchaser/Consignee.

h) If there is any lapse in the performance of the CMC as per contract, the proceeds Annual CMC bank guarantee for an amount of Rs. _____ (equivalent to 2.5% of the cost of the equipment as per contract) shall be payable to the Consignee.

i) **Payment terms:** The payment of Annual CMC will be made against the bills raised to the consignee by the supplier on six monthly basis after satisfactory completion of said period, duly certified by the HOD concerned. The payment will be made in Indian Rupees.

j) **Paying authority:** _____ (name of the consignee i.e. Hospital authorised official)

_____

(Signature, name and address of
Hospital authorised official)
For and on behalf of_____

Received and accepted this contract
(Signature, name and address of the supplier's executive duly authorised to sign on behalf of the supplier)

For and on behalf of _____
(Name and address of the supplier)
(Seal of the supplier)
Date: _____

Place: _____

SECTION – XVII
CONSIGNEE RECEIPT CERTIFICATE
(To be given by consignee's authorized representative)

The following store (s) has/ have been received in good condition:

1) Contract No. & date :_____

2) Supplier's Name :_____

3) Consignee's Name & Address with telephone No. & Fax No. : _____

4) Name of the item supplied :_____

5) Quantity Supplied :_____

6) Date of Receipt by the Consignee :_____

7) Name and designation of Authorized Representative of Consignee :_____

8) Signature of Authorized Representative of Consignee with date :_____

9) Seal of the Consignee :_____

SECTION – XVIII
Proforma of Final Acceptance Certificate by the Consignee

No_____ **Date_____**

To

M/s _____
_____
_____

Subject: Certificate of commissioning of equipment/plant.

This is to certify that the equipment(s)/plant(s) as detailed below has/have been received in good conditions along with all the standard and special accessories and a set of spares (subject to remarks in Para no.02) in accordance with the contract/technical specifications. The same has been installed and commissioned.

(a) Contract No_____ dated_____

(b) Description of the equipment(s)/plants: _____

(c) Equipment(s)/ plant(s) nos.:_____

(d) Quantity: _____

(e) Bill of Loading/Air Way Bill/Railway Receipt/ Goods Consignment Note no_____ dated _____

(f) Name of the vessel/Transporters:_____

(g) Name of the Consignee:_____

(h) Date of commissioning and proving test:_____

Details of accessories/spares not yet supplied and recoveries to be made on that account.

Sl. No.	Description of Item	Quantity	Amount to be recovered

The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment(s)/plant(s).

The supplier has fulfilled its contractual obligations satisfactorily ## or

The supplier has failed to fulfil its contractual obligations with regard to the following:

a) He has not adhered to the time schedule specified in the contract in dispatching the documents/ drawings pursuant to 'Technical Specifications'.
b) He has not supervised the commissioning of the equipment(s)/plant(s)in time, i.e. within the period specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).
c) The supplier as specified in the contract has not done training of personnel.

The extent of delay for each of the activities to be performed by the supplier in terms of the contract is _____.
The amount of recovery on account of non-supply of accessories and spares is given under Para no.02.
The amount of recovery on account of failure of the supplier to meet his contractual obligations is_____ (here indicate the amount).

(Signature)
(Name)
(Designation with stamp)

Explanatory notes for filling up the certificate:

i) He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.
ii) He has supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the time specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).
iii) Training of personnel has been done by the supplier as specified in the contract.
iv) In the event of documents/drawings having not been supplied or installation and commissioning of the equipment(s)/plant(s) having been delayed on account of the supplier, the extent of delay should always be mentioned in clear terms.

SECTION – XIX
ANNEXURES

Annexure 1

DETAILS OF SHIPPING ARRANGEMENT FOR LINER CARGOES IN RESPECT OF C & F/CIF/TURNKEY/F.O.R CONTRACTS FOR IMPORTS

1. (a) SHIPMENT FROM PORTS OF U.K INCLUDING NORTHERN IRELAND (ALSO EIRE), FROM THE NORTH CONTINENT OF EUROPE (GERMANY, HOLLAND, BELGIUM, FRANCE, NORWAY, SWEDEN, DENMARK, FINLAND AND PORTS ON THE CONTINENTAL SEABOARD OF MEDITERRANIAN (I.E. FRENCH WESTERN ITALIAN PORTS), TO PORTS IN INDIA.

The Seller should arrange shipment of the goods by vessels belonging to the member lines of the India-Pakistan-Bangladesh Conference. If the Seller finds that the space on the 'Conference Lines' vessels is not available for any specific shipment, he should take up with India-Pakistan-Bangladesh Conference. Conferity House, East Grinstead, Sussex (UK), for providing shipping space and also inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

The Seller should arrange shipment through the Government of India's Forwarding Agents, M/s Schenker & Co., 2000-Hamburg (Cable: SCHENKER CO., HAMBURG) OR obtain a certificate from them to the effect that shipment has been arranged in accordance with instructions of the Ministry of Surface Transport, (TRANSCHART), New Delhi.

(b) SHIPMENT FORM PORTS OF U.K. INCLUDING NORTHERN

Goods under this contract would be shipped by the national shipping companies of the Contracting Parties operating bilateral shipping service and vessels under the flag of third countries in accordance with the Agreement between the Government of German Democratic Republic and the Government of the Republic of India in the Field of Merchant Shipping signed on 9.1.1979, as amended up-to-date.

(c) ISHIPMENT FROM ADRIATIC PORTS OF EASTERN ITALY AND YUGOSLAVIA

The seller should arrange shipment of the goods by vessels belonging to the following Indian member lines;

1. The Shipping Purchaser of India Ltd.
2. The Scindia Steam Navigation Co., Ltd
3. India Steamship Co., Ltd

For the purpose of ascertaining the availability of suitable Indian vessels and granting dispensation in the event of their non-availability, the Seller should give adequate notice about the readiness of each consignment from time to time at least six weeks in advance of the required position to M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) and also endorse a copy thereof to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)
The seller should arrange shipment through the Government of India's Forwarding Agents M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) or obtain certificate from them to the effect that shipment has been arranged in accordance with the instructions of the Ministry of Surface Transport, (TRANSCHART), New Delhi.

(d) SHIPMENT FROM POLAND & CZECHOSLOVAKIA

(i) IMPORTS FROM POLAND

Shipment under this contract would be made by the National flag lines of the two parties and vessels of the third flag conference lines, in accordance with the agreement between the Govt. of the Republic of India and the Govt. of the Polish People's Republic regarding Shipping Co-operation dated 27.6.1960 as amended up-to-date.

(ii) IMPORTS FROM CZECHOSLOVAKIA

Goods under this contract would be signed by the National flag lines of the two parties and vessels of the third flag conference lines, in accordance with the Agreement Co-operation in shipping between India and Czechoslovakia signed on 3.11.1978 and ratified on 19.12.1979, as amended up-to-date.
Shipping arrangement should be made by the Sellers in consultation with Resident Representative of the Indian Shipping Lines in Gdynia, Co., Morska Agencja W. Gdyniul, Pulaskiego 8, P.O. Box 246, Gdynia (Poland) – Telex : MG PL. 054301, Tel.: 207621, to whom details regarding contract number, nature of cargo , quantity, port of lading, discharging, name of Government consignee, expected date of readiness of each consignment etc. should be furnish at least six weeks in advance of the required position, with a copy thereof endorsed to the Shipping Co-ordination Officer, Ministry of Surface Transport, (Chartering Wing), New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(e) SHIPMENT FROM U.S.S.R

Shipment under this contract should be made in accordance with the agreement between the Government of the Republic of India and the Government of U.S.S.R on Merchant Shipping 1976, as amended up-to-date, by vessels of Indo-Soviet shipping Service.

(f) SHIPMENT FROM JAPAN

The shipment of goods should be made of India vessels to the maximum extent possible subject to the minimum of 50%.

The Seller should arrange shipment of the goods in consultation with the Embassy of India in Japan, Tokyo to whom details regarding contract number, nature of cargo, quantity, port of loading/discharge, name of Govt. consignee, expected date of readiness of each consignment etc. should be furnished at least six weeks in advance of the required position.

Note: The copies of such contracts are to be endorsed both to the Attached (commercial) embassy of India in Japan, Tokyo, and the shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi.

(g) SHIPMENT FROM AUSTRALIA, ALGERIA, BULGARIA, ROMANIA, EGYPY

The Seller shall arrange shipment of the goods by Indian flag vessels to the maximum extent possible subject to a minimum of 50 %. For the purpose of ascertaining the availability of suitable Indian vessels, the seller shall give adequate notice of not less than six weeks about the readiness of each consignment to the Shipping Purchaser of India Ltd., SHIPPING HOUSE, 245, Madame Cama Road, Bombay – 400 021 (CABLE: SHIPINDIA BOMBAY) and also endorse a copy thereof to the Shipping Co-ordination Officer, Ministry of Surface

Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(h) SHIPMENT FROM PAKISTAN

The shipment of cargoes should be made by Indian vessels to the maximum extent possible subject to a minimum of 50 %.

Shipment arrangement should be made by the sellers in consultation with M/s Mogul Line Ltd., 16-Bank Street, Fort, Bombay – 400023 (Cable: MOGUL BOMBAY: Telex: 011 – 4049 MOGUL), to whom, details regarding contract number, nature of cargo, quantity, port of lading discharging, name of government consignee, expected date of readiness of each consignment etc. should be furnish at least six weeks in advance of the required position, with a copy thereof endorsed to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(i) SHIPMENT FROM U.S ATLANTIC & GULF PORTS

The Seller should arrange shipment of the goods by vessels belonging to the member lines of the India – Pakistan – Bangladesh – Ceylon and Burma Outward Freight Conference. If the Seller finds that the space of the 'Conference Lines' vessels is not available for any specific shipment he should take up with India – Pakistan- Bangladesh – Ceylon and Burma Outward Freight Conference, 19, Rector Street, New York, N.Y. 10006 USA, for providing shipping space and also inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(j) SHIPMENT FROM ST. LAWRENCE AN EASTERN CANADIAN PORTS

The Seller should arrange shipment of the goods by vessels belonging to the following shipping lines;

1. The shipping Purchaser of India Ltd.
2. The Scindia Steam Navigation Co., Ltd

If the Seller finds that the space in the vessels of these Lines is not available for any particular consignments, he should inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159) immediately so that dispensation from the shipping lines concerned to use alternative lifting may be sought.

(k) SHIPMENT FROM WEST COAST PORTS OF U.S. CANADA AND OTHER AREAS NOT SPECIFICALLY MENTIONED ABOVE

The Seller should arrange shipment of the goods by Indian vessels to the maximum extent possible subject to a minimum of 50 %. For the purpose of ascertaining the availability of suitable Indian vessels and granting dispensation in the event of their non-availability, the Seller should furnish the details regarding contract number, nature of cargo, quantity, port of lading, discharging, name of government consignee, expected date of readiness of each consignment etc. to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159) at least six weeks in advance of the required position.

2. BILLS OF LADING

(i) C.I.F./C&F/TURNKEY SHIPMENTS

The Bills of lading should be drawn to indicate Shipper and 'Consignee' as under:

SHIPPER: The C.I.F (C&F)/TURNKEY SUPPLIERS concerned.

CONSIGNEE: As per consignee's particulars in the contract (The name an address of the 'Port Consignee' and 'Ultimate' both should be indicated).

(ii) F.O.R SHIPMENTS

The Bills of lading should be drawn to indicate shipper Consignee as under:

SHIPPER: The F.O.R suppliers Concerned

CONSIGNEE: Supplier's Indian Agent on order

Note:

1. Moreover the name of the 'Purchaser' and 'Ultimate' Consignee should appear in the body of the Bills of Lading as the 'Notify' or as a remark.
2. Two non-negotiable copies of the Bills of Lading indicating the freight amount and discount, if any allowed, should be forwarded to The Shipping Co-ordination Officer, Ministry of surface Transport (Chartering Wing), New Delhi after the shipment of each consignment is effected.
3. The seller should avoid the use of over-aged vessels for the shipment of the goods under the contract and if so used the cost of additional. Insurance, if any, shall be borne by the seller.

SECTION – XX
CHECKLIST

Name of Tenderer:
Name of Manufacturer:

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
1. a.	Have you enclosed EMD of required amount for the quoted schedules?			
b.	In case EMD is furnished in the form of Bank Guarantee, has it been furnished as per Section XIII?			
c.	In case Bank Guarantee is furnished, have you kept its validity of 165 days from Techno Commercial Tender Opening date as per clause 19 of GIT?			
2. a.	Have you enclosed duly filled Tender Form as per format in Section X?			
b.	Have you enclosed Power of Attorney in favour of the signatory?			
3.	Are you a SSI unit, if yes have you enclosed certificate of registration issued by Directorate of Industries/NSIC			
4. a.	Have you enclosed clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications?			
b.	In case of Technical deviations in the compliance statement, have you identified and marked the deviations?			
5. a.	Have you submitted satisfactory performance certificate as per the Proforma for performance statement in Sec. IX of TE document in respect of all orders?			
b.	Have you submitted copy of the order(s) and end user certificate?			

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
6.	Have you submitted manufacturer's authorization as per Section XIV?			
7.	Have you submitted prices of goods, turnkey (if any), CMC etc. in the Price Schedule as per Section XI?			
8.	Have you kept validity of 120 days from the Techno Commercial Tender Opening date as per the TE document?			
9. a.	In case of Indian Tenderer, have you furnished Income Tax Account No. as allotted by the Income Tax Department of Government of India?			
b.	In case of Foreign Tenderer, have you furnished Income Tax Account No. of your Indian Agent as allotted by the Income Tax Department of Government of India?			
10.	Have you intimated the name an full address of your Banker (s) along with your Account Number			
11.	Have you fully accepted payment terms as per TE document?			
12.	Have you fully accepted delivery period as per TE document?			
13.	Have you submitted the certificate of incorporation?			
14.	Have you accepted the warranty as per TE document?			
15.	Have you accepted terms and conditions of TE document?			
16.	Have you furnished documents establishing your eligibility & qualification criteria as per TE documents?			

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
17	Have you furnished Annual Report (Balance Sheet and Profit & Loss Account) for last three years prior to the date of Tender opening?			
18	**Have you enclosed the latest purchase order copies supplied to AIIMS, PGIMER, JIPMER or Institute of National importance, Reputed Corporate Hospitals for the specific model quoted along with the price bid**			

N.B.

1. All pages of the Tender should be page numbered and indexed.
2. The Tenderer may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender and no column is left blank. If any column is not applicable, it may be filled up as NA.
3. It is the responsibility of tendered to go through the TE document to ensure furnishing all required documents in addition to above, if any.

(Signature with date)

(Full name, designation & address of the person duly authorised sign on behalf of the Tenderer)
For and on behalf of

(Name, address and stamp of the tendering firm)

Section – XXI

Consignee Details

Medical Institutions	Contact Address.	Air Port	Dry Port
Pt. Bhagwat Dayal Sharma University of Health Sciences, Rohtak and Pt. Bhagwat Dayal Sharma Post Graduate Institute of Medical Sciences, Rohtak	The Director Pt. B.D. Sharma PGIMS, Rohtak. Ph. 01262-211300-03, 212641, 212643-46, 48 & 50 FAX: 01262-211308	New Delhi	New Delhi (Tughlaqabad)

NB: The consignee will ensure timely issue of CDEC, Octroi Exemption Certificates, Road Permits & Entry Tax Exemption Certificates, wherever applicable, to the suppliers.