GLOBAL TENDER ENQUIRY

FOR PURCHASE OF MEDICAL EQUIPMENTON BEHALF OF

LOK NAYAK HOSPITAL AN INSTITUTE UNDER
DEPARTMENT OF HEALTH & FAMILY WELFARE
GOVT OF NCT OF DELHI

HLL/PCD/GNCTD/09/LNH/14-15

BY

HLL LIFECARE LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)
Procurement & Consultancy Services Division
B-14 A, Sector-62, Noida-201 307
Phone: 0120-4071500
Fax: 0120-4071513, 0120-4071579
URL: www.lifecarehll.com
Email: pcd@lifecarehll.com

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SECTION I

NIT No: HLL/PCD/GNCTD/09/LNH/14-15 **Dated:04.06.2014**

NOTICE INVITING TENDERS (NIT)

1. Procurement & Consultancy Services Division of HLL Lifecare Limited, for and on behalf of Lok Nayak Hospital, an Institute under Department of Health & Family Welfare, Govt. of NCT of Delhi, invites online eTenders, from eligible and qualified tenderers for supply of following Medical Equipment:

Sl. no.	Tender ID	Description	Qty.	Tender Fees (Rs.)	EMD Amount (Rs.)	Date & time of Prebid meeting	Date & time of closing of online tender	Closing date & time for submission of physical Tender	Date & time of opening of tender
1	2014_HFWD_58813_1	Simulator for Endourology and PCNL	1	2,000	160,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
2	2014_HFWD_58813_2	Water Treatment Plant(Reverse Osmosis Process), R.O. Plant	1	500	40,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
3	2014_HFWD_58813_3	Operating Table	2	1,000	80,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
4	2014_HFWD_58813_4	Operating Microscope	1	2,000	160,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
5	2014_HFWD_58813_5	Image Intensifier C-Arm	1	1,000	80,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
6	2014_HFWD_58813_6	OT Table	3	1,000	90,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
7	2014_HFWD_58813_7	OT Light	4	2,000	120,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
8	2014_HFWD_58813_8	High Definition Ultrasound machine with Colour Doppler 3D/4D	1	1,000	60,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
9	2014_HFWD_58813_9	Combined Generation of Ultrasound Cutting&Coagulation Devices with advance Radiofrequency Energy	2	1,000	80,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
10	2014_HFWD_58813_10	Endoscopy Unit	2	2,000	110,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
11	2014_HFWD_58813_11	Mini C Arm for Hand Surgery	1	2,000	130,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
12	2014_HFWD_58813_12	C Arm Image Intensifier	1	1,000	60,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM

Sl. no.	Tender ID	Description	Qty.	Tender Fees (Rs.)	EMD Amount (Rs.)	Date & time of Prebid meeting	Date & time of closing of online tender	Closing date & time for submission of physical Tender	Date & time of opening of tender
13	2014_HFWD_58813_13	Ultrasonic Bone cutting device(Bone scalpel)	1	1,000	50,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
14	2014_HFWD_58813_14	Pneumatic High Speed Burr System(Mini Pneumatic Burr system)	1	500	40,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
15	2014_HFWD_58813_15	Electric High Speed Burr system(Mini Power Burr system)	1	500	40,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
16	2014_HFWD_58813_16	Paediatric Ventilator for PICU	6	2,000	174,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
17	2014_HFWD_58813_17	Paediatric Ventilator for NICU	4	2,000	120,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
18	2014_HFWD_58813_18	High Frequency Oscillation Ventilator for Neonates and Paediatrics	2	1,000	84,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
19	2014_HFWD_58813_19	LED Ceiling OT Light with Camera	1	1,000	45,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
20	2014_HFWD_58813_20	Vessel Sealing System with Four Monopolar and Bipolar Cautery	2	2,000	170,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
21	2014_HFWD_58813_21	Pediatric Video Gastro & Colonoscopy system	1	2,000	100,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
22	2014_HFWD_58813_22	Holmium Laser	1	2,000	150,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
23	2014_HFWD_58813_23	C Arm compatible pediatric OT table	2	3,000	200,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
24	2014_HFWD_58813_24	Pediatric Percutaneous Lithotomy set with Endo vision system	1	2,000	130,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
25	2014_HFWD_58813_25	C Arm Image Intensifier	1	500	45,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
26	2014_HFWD_58813_26	Plasma Sterilizer	1	2,000	110,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM
27	2014_HFWD_58813_27	3T MRI Machine	1	5,000	2,900,000	11-06-14 11:00 AM	16-07-14 6:00 PM	17-07-14 1:00 PM	17-07-14 2:00 PM

2. Interested tenderers may obtain further information about this requirement from this office inviting the tenders.

3. The prospective bidders who have not registered can register with E-procurement system of NIC by paying necessary registration charges. The bidders may prepare a banker cheque/Draft in favour of Delhi E-governance society and deposit it at E-procurement help desk room. The details of payment can be obtained from help desk.

In order to submit the bids electronically bidders are required to have type-II Digital Signature Certificate. Digital Signature can be obtained from any of the certifying agency.

The tender shall be submitted online and in physical form (except price bid) in three parts/covers as mentioned below:

(i) Tender Fee and EMD

(ii) Pre-qualification and Technical compliance as per following documents (Both online and physical):

a) Manufacturer's authorization in case bid is submitted by an Indian agent (A declaration must be attached here in case directly quoted by a manufacturer or a document establishing the relation of the Indian office with the manufacturer in case quoted by Indian office of the manufacturer).
b) Tender Form as per section X
c) Copy of PAN.
d) Certificate of Incorporation or Declaration in case of being a proprietary firm.
e) Annual report of last 3 years (Balance sheet and Profit & Loss Account)
f) Name, address and details of account with respect to bidder and/or beneficiary of L/C.
g) Quality Control Requirements as per Section VIII
h) Performance statement along with required PO copies and its corresponding end user's satisfactory performance certificate as per section IX.
i) Affidavit as per Section XIX
j) Technical Bid along with clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications in the tender enquiry (Both online and physical)

(iii) Price Bid (Only online).

3. All prospective tenderers may attend the Pre Tender meeting. For all the above tender IDs, Prebid meeting shall be held at Conference Room of HLL Lifecare Limited, B-14A, Sector -62, Noida, Gautam Budh Nagar, U.P. - 201 307.

4. Tenders in desired Physical Form to be submitted in the tender box provided at the address mentioned in para 3 above.

5. To participate in the submission against the tender, it is mandatory for the Applicants to get digital signature and get themselves registered with e-tendering system of various hospitals under Govt. of NCT of Delhi.

6. Tenderer may download the tender enquiry documents from the web site www.lifecarehll.com or www.eprocure.gov.in/cppp or www.govtprocurement.delhi.gov.in and submit its tender online after logging in to their user ID at www.govtprocurement.delhi.gov.in.

7. Tenderers shall ensure that their tenders, complete in all respects, are submitted **online and desired hard copies in original** 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 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 physical form of tenders will be received/opened on the next working day at the appointed time.

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 Department of Health & Family welfare, Govt of NCT of Delhi.
(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) "H&FW" means Department of Health & Family Welfare, Government of NCT of Delhi
(xxxi) "CMC" means Comprehensive maintenance Contract (labour, spare and preventive maintenance)
(xxxii) "RT" means Re-Tender.

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 to 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

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

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

6. Eligible Goods and Services

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

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 – Affidavit
- 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 the referred websites only.

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 on or before the pre-bid meeting.

10.2 Each prospective Tenderer can attend the Prebid meeting mentioned in para 4 in Section I with maximum 2 persons duly authorized by Tenderer.

C. PREPARATION OF TENDERS

11. Documents Comprising the Tender

11.1 The tender shall be submitted online and in physical form (except price bid) in three parts/covers as mentioned below:

(i) Tender Fee, EMD, Pre-qualification as per checklist section XIX(Both online and physical) and as mentioned in para A) below.
(ii) Technical Bid (Both online and physical)
(iii)Price Bid (Only online).

Bidders are requested not to submit the hard copy of Financial Bid along with thephysical form of tender. In case the hard copy of financial bid is submitted in physical form, the tender shall be straightway rejected. Also, uploading of the price bid in prequalification bid or technical bid will result in rejection of the tender.

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) Deleted.

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) Deleted

ix) Certificate of Incorporation.

B) Price Tender:

1. Prices are to be quoted in the attached Price Bid format online as per the directionson the official website.

2. The price should be quoted for the accounting unit indicated on the website.

The bidder shall not submit hard copy of financial bid otherwise his tender shall be straightway rejected. Also, uploading the price bid in prequalification bid or technical bid will result in rejection of the tender.

Note:

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 A person signing (manually or digitally) the tender form or any documents forming part of the contract on behalfof another shall be deemed to warrantee that he has authority to bind such other personsand if, on enquiry, it appears that the persons so signing had no authority to do so, thepurchaser may, without prejudice to other civil and criminal remedies, cancel the contractand 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), as 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).

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 Only one tenderer is permitted to quote for the same manufacturer irrespective of models

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 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 DGS&D or NSIC, as the case may be).

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, if paid in Bank Guarantee, 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 Deleted

21.3 The original 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.

21.4 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 Deleted.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

22.1 The tender shall be submitted online and in physical form (except price bid) in three parts/covers as mentioned below:

(i) Tender Fee and EMD

(ii) Pre-qualification and Technical compliance as per following documents (Both online and physical):

a) Manufacturer's authorization in case bid is submitted by an Indian agent (A declaration must be attached here in case directly quoted by a manufacturer or a document establishing the relation of the Indian office with the manufacturer in case quoted by Indian office of the manufacturer).

b) Tender Form as per section X

c) Copy of PAN.

d) Certificate of Incorporation or Declaration in case of being a proprietary firm.

e) Annual report of last 3 years (Balance sheet and Profit & Loss Account)

f) Name, address and details of account with respect to bidder and/or beneficiary of L/C.

g) Quality Control Requirements as per Section VIII

h) Performance statement along with required PO copies and its corresponding end user's satisfactory performance certificate as per section IX.

i) Affidavit as per Section XIX

j) Technical Bid along with clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications in the tender enquiry (Both online and physical)

(iii) Price Bid (Only online).

Bidders are requested not to submit the hard copy of Financial Bid along with the physical form of tender. In case the hard copy of financial bid is submitted in physical form, the tender shall be straightway rejected. Also, uploading of the price bid in prequalification bid or technical bid will result in rejection of the tender.

Unless otherwise specified, the tenderers are to submit its tender online and deposit the physical form of 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**.

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 physicalsubmission 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 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) The bidder has submitted hard copy of financial bid (only online submission price bids are allowed).
(ii) 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) 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.
(viii) Poor/ unsatisfactory past performance.
(ix) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
(x) Tenderer is not eligible as per GIT Clauses 5& 17.1.
(xi) Tenderer has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.
(xii) Tenderer has not agreed for the delivery terms and delivery schedule.

28. Minor Infirmity/Irregularity/Non-Conformity

28.1 If during the evaluation, the purchaser find any minor informality and/or irregularity and/or non-conformity in a tender, , the purchaser will 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 Pre-Qualification and/or 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

Deleted.

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 5 years after the warranty period shall be added to the bid price for evaluation and will be calculated at a discounted rate of 10% per year.**

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 The Purchaser reserves the right to give the price preference to small-scale sectors etc. and purchase preference to central public sector undertakings as per the instruction in vogue while evaluating, comparing and ranking the responsive tenders.

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 off 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 off 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

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 reserves 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 anything 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	25
B	8 to 10	TE documents	No Change	25
C	11 to 21	Preparation of Tenders	No Change	25
D	22 to24	Submission of Tenders	No Change	25
E	25	Tender Opening	No Change	25
F	26 to 37	Scrutiny and Evaluation of Tenders	No Change	25
G	38 to 45	Award of Contract	No Change	25

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.

(i) The following documents shall be prepared and scanned in different files (in PDF or JPEG format as prescribed) and uploaded during the on-line submission of Proposal. These documents shall also be submitted in '**ORIGINAL**' to HLL Lifecare Ltd before the prescribed date & time for submission of Proposals.

a) Demand Draft towards Tender Fee in favour of HLL Lifecare Ltd

b) EMD in the prescribed format in favour of HLL Lifecare Ltd

c) Technical Data Sheet and original technical literature/ Brochure (if any)

(ii) All document(s)/ information(s) other than above including the Financial Proposal (i.e. FORMAT FOR SUBMISSION OF FINANCIAL PROPOSAL) should be uploaded **online only**in the prescribed format given in the website. No other mode of submission shall be acceptable.

(iii)The prospective bidders may **scan the documents in low resolution (75 to 100 DPI)**instead of 200 DPI. The documents may be scanned for further lower resolution (if possible).This would reduce the size of the Cover and would be uploaded faster.

(iv)The prospective bidders may upload Drawing files, if any, in **".dwf"** format so that the size ofdocument is less. This is a generic format and all software supports this format.

(v) At the time of cover content creation, the prospective bidders would have to define the document type as".**rar**" format.

(vi)The prospective bidders should be asked to zip all the .dwf files to a .rar file and upload it.

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.

All documents submitted physically or uploaded as scanned copies must be self-attested, legible and numbered.

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 thirty /sixty six (30/66 as per applicable Warranty period of 2/5 years) 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. The cost towards the transportation, boarding & lodging will be borne by the purchaser and/or its nominated representative(s).

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.

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) 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) Certificate of origin;
(vi) Insurance Certificate as per GCC Clause 11.
(vii) 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.

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 to a further period of twenty four (24) months from the date such rectified / replaced goods starts functioning to the satisfaction of the purchaser.

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

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. However, for goods directly imported shall be guided by the INCOTERM.

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:

80% 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 20% 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.Final acceptance certificate will be released by the consignee on completion of installation, commissioning, training, successful running of equipment (at least 2-3 weeks) and handing over the equipment to the consignee.

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:

Eighty (80)% 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, BUREAU VERITAS and TUV prior to despatch.

b) On Acceptance:

Balance payment of 20% 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.Final acceptance certificate will be released by the consignee on completion of installation, commissioning, training, successful running of equipment (at least 2-3 weeks) and handing over the equipment to the consignee.

c) 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.

d) 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 respective consignees. 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 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India. In the case of a dispute or difference arising between the Purchaser/Consignee and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitrator appointed by the Secretary, Department of Health & Family Welfare, Govt. of NCT of Delhi. The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakhs (Rs. 1,00,000/-)

30.3 Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi, India.

30.4 Jurisdiction of the court will be from the place where the tender enquiry document has been issued, i.e., 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/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 Warranty and CMC period will be strictly as mentioned in the list of requirement (Section VI, part I) only irrespective of any other period mentioned elsewhere in the tender enquiry. Also, CMC only to be quoted after warranty period instead of AMC mentioned (if any) in the tender specification.

SECTION - VI

LIST OF REQUIREMENTS

Part I

Sl. no.	Tender ID	Description	Qty.	Department	Warranty Period	CMC Period
1	2014_HFWD_58813_1	Simulator for Endourology and PCNL	1	Paediatric Surgery	5 years	5 years
2	2014_HFWD_58813_2	Water Treatment Plant(Reverse Osmosis Process), R.O. Plant	1	Dialysis Unit	5 years	5 years
3	2014_HFWD_58813_3	Operating Table	2	Nuerosurgery	5 years	5 years
4	2014_HFWD_58813_4	Operating Microscope	1	Nuerosurgery	5 years	5 years
5	2014_HFWD_58813_5	Image Intensifier C Ar m	1	Nuerosurgery	5 years	5 years
6	2014_HFWD_58813_6	OT Table	3	Obst. & Gynae.	5 years	5 years
7	2014_HFWD_58813_7	OT Light	4	Obst. & Gynae.	5 years	5 years
8	2014_HFWD_58813_8	High Definition Ultrasound machine with Colour Doppler 3D/4D	1	Obst. & Gynae.	5 years	5 years
9	2014_HFWD_58813_9	Combined Generation of Ultrasound Cutting & Coagulation Devices with advance Radiofrequency Energy	2	Obst. & Gynae.	5 years	5 years
10	2014_HFWD_58813_10	Endoscopy Unit	2	Obst. & Gynae.	5 years	5 years
11	2014_HFWD_58813_11	Mini C Arm for Hand Surgery	1	Orthopaedics	5 years	5 years
12	2014_HFWD_58813_12	C Arm Image Intensifier(Image Intensifier)	1	Orthopaedics	5 years	5 years
13	2014_HFWD_58813_13	Ultrasonic Bone cutting device(Bone scalpel)	1	Orthopaedics	5 years	5 years
14	2014_HFWD_58813_14	Pneumatic High Speed Burr System(Mini Pneumatic Burr system)	1	Orthopaedics	5 years	5 years
15	2014_HFWD_58813_15	Electric High Speed Burr system(Mini Power Burr system)	1	Orthopaedics	5 years	5 years
16	2014_HFWD_58813_16	Paediatric Ventilator for PICU	6	Paediatrics	5 years	5 years
17	2014_HFWD_58813_17	Paediatric Ventilator for NICU	4	Paediatrics	5 years	5 years
18	2014_HFWD_58813_18	High Frequency Oscillation Ventilator for Neonates and Paediatrics	2	Paediatrics	5 years	5 years

Sl. no.	Tender ID	Description	Qty.	Department	Warranty Period	CMC Period
19	2014_HFWD_58813_19	LED Ceiling OT Light with Camera	1	Paediatric Surgery	5 years	5 years
20	2014_HFWD_58813_20	Vessel Sealing System with 4 Monopolar and Bipolar Cautery	2	Paediatric Surgery	5 years	5 years
21	2014_HFWD_58813_21	Pediatric Video Gastro & Colonoscopy system	1	Paediatric Surgery	5 years	5 years
22	2014_HFWD_58813_22	Holmium Laser	1	Paediatric Surgery	5 years	5 years
23	2014_HFWD_58813_23	C Arm compatible pediatric OT table	2	Paediatric Surgery	5 years	5 years
24	2014_HFWD_58813_24	Pediatric Percutaneous Lithotomy set with Endo vision system	1	Paediatric Surgery	5 years	5 years
25	2014_HFWD_58813_25	C Arm Image Intensifier	1	Paediatric Surgery	5 years	5 years
26	2014_HFWD_58813_26	Plasma Sterilizer	1	Paediatric Surgery	5 years	5 years
27	2014_HFWD_58813_27	3T MRI Machine	1	Radiology	5 years	5 years

Part II: Required Delivery Schedule:

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

60 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 two weeks of receipt of the stores/ goods at site or within two weeks of handing over the site for installation, whichever is later.

b) For Imported goods directly from foreign:

60 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 two weeks of receipt of the stores/ goods at site or within two weeks 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 and shall

remain in force for a period as specified in part I above or 6 months beyond the aforesaid period from the last date of 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(s)

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.

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 XX

Section – VII
Technical Specification

Item no. 1
Simulator for Endourology & PCNL

Platform
Platform base: 60 cm x 50 cm x 80cm Platform working surface: 120cm x 55cm Tools and scopes holder
Screen arm
Weight: <140 kg

Mannequin
Size: 45cm x 38cm x 22cm including penis
Color: purple-metal
Material: thermoplastic ABS
Dynamic force feedback devices inside the mannequin for haptic sensation

Endoscopes
18F Pentax VB-1830
24F Rigid cystoscope
12F Rigid ureteroscope
All endoscopes are equipped with proprietary tools tracking technology

Monitor
15"Flat LCD touch screen Resolution: 1024 X 768

Tools / Accessories
One Unidex basket handle
One Forceps handle
3 x Guide-wire device (25cm active length)
2 Pedals for tools and fluoroscopy operation

Environmental characteristics
Power supply: 100-240 VAC
Consumption: maximum of 400 W for all system components
Operation temperature: range 10°C - 40°C
Relative humidity: maximum 90%

Compliance & Standards
All components of the system are CE marked
Low voltage directive 73/23/EWG (EU standard)
EMC Directive 89/336/EWG (EU standard)
FCC Rules Part 15

SIMULTOR FEATURES

Simulator is the hands-on training and practice opportunity for diagnostic and therapeutic procedures that is changing the face of endourology training. Simulator provides a unique opportunity to work with a variety of scopes, tools and visual images on a true to life system that provides a look and feel that are so close to reality that at times it may be hard to distinguish the difference.

Coordination games and basic tasks for review of anatomies provide the necessary introduction to the use of endourology scopes and tools. From these introductory exercises trainees move on to a variety of virtual patient cases, each with its own unique anatomy and pathologies. On the simulator, safe practice of endourology procedures includes:

- Simulation of cystoscopy and ureteroscopy procedures.
- Use of both flexible and rigid scopes.
- Performance of real-time fluoroscopy with simulation of C-arm control.
- Identification of patient anatomy and correct tool insertion through changing of C-arm positioning.
- Viewing of fluoroscopy image with injection of contrast agent

Cost-effective design features interchangeable cartridges:

- For a variety of procedures and patients
- Practice on either normal or obese patients
- Easy to add new patients and cases over time
- Opportunity for ongoing development of interventional

The PCN Modules feature the following:

- Practice of renal access for urology and radiology
- Learn to avoid puncturing of internal organs
- Real-time fluoroscopic image processing during procedure
- Visualization of renal access needle in multiple planes
- Use of real needle and tools
- Access with tactile sensation while moving through the various layers
- Multiple parameters that dictate surgical success
- Anatomical variations and different clinical scenarios
- Create the ideal access to the proper calyx through a variety of access sites

Acquire difficult endourological skills:

- Hand-eye coordination
- Processing of 2D fluoroscopic radiographic imaging into
- 3D "mind's eye" visualization of renal anatomy
- Fluoroscopy image manipulation
- Tools and guide wire manipulation
- Different movements of C arm to achieve the ideal access
- Use of needles of varying sizes and lengths
- Puncturing the kidney without benefit of contrast agent

Item no. 2

Water Treatment Plant
(Reverse Osmosis (RO) Plant)

1. Capacity of producing a minimum of 1,000 litres/hour (of high quality RO treated water for Hemodialysis as per AAMI
2. Facility to Rinse, Disinfect and Clean the RO
3. Facility for online monitoring of
   a. Raw water conductivity
   b. Pure water conductivity
   c. Rejection flow rate
4. Microprocessor based control unit
5. RO modules have 3 phase multistage centrifugal pump with auto over heat cut off facility
6. RO module shall have facility to indicate:
   a. Low flow reject alarm
   b. High conductivity alarm
   c. Low level inlet pressure alarm
   d. Motor protect alarm
7. Facility to connect indication lamp (to monitor machine operation) and alarm lamp and buzzer at the Hemodialysis unit
8. Easy addition/up-gradation of membrane for higher water output capacity (without change of pump capacity)
9. RO membrane material: Spiral wound, modified polyamide (thin film composite)
10. Operating voltage: 3 phase, 50 Hz AC 380-415 volts
11. Raw water pump (with auto cut off) - 2 nos(with one standby)
12. Filters: Sand filter 1 unit, Particle filter
13. Activated carbon filter - 2 units
14. Antiscalant dosing system
15. Reverse Osmosis recovery 75% - 80%
16. Water softener 1 unit (with programmable backwash and purge facility)
17. Softened water storage tank - 1 unit
18. Softened water feed pump - 2 units (with 1 standby)
19. U V Lamp
20. RO storage tank - 1 unit (min capacity 1,500 litres)
21. RO distribution pump - 2 units
22. Ultra filtration system (minimum capacity of 1,000 litres/hr)
23. RO skid - 1 unit (pump and motor - 2 units with 1 standby)
24. The distribution pipeline shall be made up of CPVC or PPR
25. Automatic and programmable chemical disinfection / decalcification facility using commonly available disinfection / decalcification chemicals
26. Online water distribution to 10-20 machines in a loop so that the unused water may be fed back to the RO Unit thus saving on water rejection
    a. Programmable and automatic rinsing / flushing facility, at regular intervals, when system is not in use, to prevent drying of filter media and RU membrane
    b. RO Unit shall be designed to specifications that ensure adherence of output water to AAMI guidelines
    c. The RO unit will preferably have backup / spare motors

27. Quality of output water from the RO unit shall conform to maximum allowed under the AAMI guidelines. Existing AAMI guidelines for water to be used for Hemodialysis have been detailed below -

Contaminant	**AAMI Maximum for Haemodialysis (mg/L)**
o Calcium	o 2 (0.1 mEq/L)
o Magnesium	o 4 (0.3 mEq/L)
o Potassium	o 8 (0.2 mEq/L)
o Sodium	o 70 (3.0 mEq/L)
o Antimony	o 0.006
o Arsenic	o 0.005
o Barium	o 0.10
o Beryllium	o 0.0004
o Cadmium	o 0.001
o Chromium	o 0.014
o Lead	o 0.005
o Mercury	o 0.0002
o Selenium	o 0.09
o Silver	o 0.005
o Aluminium	o 0.01
o Chloramines	o 0.10
o Free chlorine	o 0.50
o Copper	o 0.10
o Fluoride	o 0.20
o Nitrate (as N)	o 2.0
o Sulfate	o 100
o Thallium	o 0.002
o Zinc	o 0.10
o Bacteria	o <200 cfu/ml (action level >50 cfu/ml)
o Endotoxin	o < 2 EU / ml (action level > 1 EU / ml

Item no. 3
Operating Table

1. It should provide excellent body imaging, precision positioning versatility and lowers to a height of 16" for microsurgical procedures.
2. Narrow base profile, automatic return to level, 500lb weight capacity, 4-point self levelling and brake system.
3. Durable one touch pendant control for precise table operation from any point around the perimeter of the table.
4. Positioning capabilities to include; lateral tilt of 25°, trendelenberg of 45^{0}, reverse trendelenberg of 20^{0}, back up of 90^{0}, back down of 30°, height adjustment range of 40" to 16", low speed for microscope interface and return top to level.
5. The head section should be adjustable up to 60° and down to 90°-
6. A 6" portion of the two-piece back section should be designed to be removed or extended split leg sections to be position able both horizontally and vertically with 45^{0} downward, upward and 90^{0} abduction capabilities.

Item no. 4

Operating Microscope

MICROSCOPE SECTION

1. 45 degree inclined binocular tubes
2. 12.5x W.F. eye piece
3. 5 Step Magnification (5x, 7.5x, 12.5x, 20x & 30x)
4. Objective : F= 300/400mm
5. Working Distance : 300/400mm
6. Interpupillary Distance: Adjustment: 55mm to 75mm
7. Motorized Foot Focusing System

ILLUMINATION SECTION

1.	Type:	By Optical Light Guide System
2.	Light Source:	24V/250W Halogen Lamp
3.	Illumination Control:	Continuous adjustment
4.	Field of Illumination:	70 mm
5.	Filter:	Cobalt Blue, Red-Free, Heat absorbing filter

STAND SECTION

Type: Floor Stand

Vertical range of counter balanced arm: 400 mm

GENERAL INFORMATION

Base Size : 600mm x 550mm
Weight : 50kg Approx.
Height : 1550mm
Electrical Power : AC 220V/110V

OPTIONAL ACCESSORIES

1. Beam Splitter with Camera Mount
2. CCD Camera

Item no. 5

Image Intensifier C-Arm

The unit should have good manoeuvrability for easy positioning during surgery in OT as well as in ICU. It should be a well - balanced system for quick positioning.

System Configuration:

1. Mobile C Arm unit
2. Stationary Anode tube
3. 9" Image Intensifier
4. 18" Monitor
5. DSA

A. Mobile C Arm Cart

- Source to Entrance Distance should be 90 Cm
- C-Arm Orbital Rotation 120 deg
- Pivot Rotation should be 300/-120 deg
- Free space II and tube should be 700mm
- C arm Depth should be 660mm
- Horizontal Travel should be 200mm
- It should have all electromagnetic locks. A single press of a switch should release all the locks for quick positioning during surgery.
- All cabling should be concealed inside the C Ann for improved sterility.

B. X-ray High Voltage Generator

- Inverter generator with inverter frequency of not less than 50 kHz.
- Maximum output: 2.0 kW
  - Fluoroscopy / Radiographic kV range: 40 - 110-kV
- Fluoroscopy mA range: Max niA should be 9 rnA or more Pulse fluoroscopy: 9 mA, 2 - 15 fps
- Radiography rnA; 20 mA
  - Radiographic mAs range: Minimum 150 mAs
- Anatomical program memory
- LED readout for parameter display.

C.X Ray Tube

- High capacity Stationary anode tube
- Anode heat capacity - not less than 100 kHU. Higher capacity would be given preference.
- Focal spot size - 0.6 mm
- Collimation - Iris type with parallel 86 rotation compensation filters.
- Beam hardening filter to cut soft X-rays. Selection of filters would be preferable.
- Collimation position memory

D. Image Intensifier

- Input field size – 9”
- Fibre grid for low X ray absorption and to effectively reduce scattered radiation

E. TV System

- CCD Camera
- X Ray TV Image rotation - 360 deg
- Monitor 17' - 2 nos
- Monitor cart for 2 monitors

F. DSA should be possible in the systems

It should have storage memory more than 15000 images.
The systems should have AERB Type approval. It should have USA FDA approval.
Vendor should have minimum 5 installations in Gov't Institution of the same model.

Item no. 6
OT Table

1) Multipurpose powered mobile table with divided leg section fir Obstetrics and Gynaecology surgical procedures.
2) Corded handset
3) Full length radiolucent top with integral X-ray cassette tunnel.
4) Removable and interchangeable head & leg section.
5) Both remote control & manual operation options to be available.
6) Dual battery system (Main & backup).
7) High quality moulded, Stitch free, antistatic, latex CFC mattress to be placed on solid frame.
8) Robust handset with multiple functions, i.e., trendelenberg, reverse trandelenberg, lateral trandelenberg. Break down zero positions.
9) Brakes & wheels for 360˚ rotation.
10) A pair of arm board with pad and clamps.
11) A pair of Lloyd Davis lithotomy supports with pads & straps.
12) Transfusion poles - 2 in no.
13) Detachable vaginal instrument tray for vaginal surgery.
14) Table must be designed with smooth transitions and surfaces to ensure fast and effective cleaning.
15) Patient carrying capacity with all powered functions - 350 Kgs.
16) 1SO approved company and table should be in accordance with the Medical Devices Directive supplied to reputed institutions of India.

Length: 2-2.5meters.
Width 55-65 cm
Height adjustable between 70 to 100 cm
Lateral tilt 17-20°
Trendlenberg 30-40°
Flexion 80-90°
Extension 220-240°
Additional set of spare mattress

Demonstration of quoted OT table if asked for

Item no. 7
OT LIGHT (Twin Ceiling Light)

1. Should be based on latest multi-reflector pure white light LED technology. It should be a combination of Main Light and Satellite Light with rotation of more than 360 deg. Independent of each other.
2. Should have ESG safety glass for scratch-proof, simple, fast disinfection process and optimum light penetration throughout life-span of the light.
3. The heat filtration system should be based on aluminum reflectors for highest energy efficiency with the lowest heat generation.
4. It should be made of aluminum and scratch proof monolayer safety glass for light weight.
5. Should be compatible with integrated systems.
6. The Main Lamp head should be design with 36 POD systems and Satellite Lamp Head

should be designed with 6 POD systems, having three second generation light intensive LED, in each POD placed centrally in a polished aluminum reflector.

7. The triangular design OT Light should be able to cover the operating area by combing both the light heads in to a single light source that maximizes the field of illumination and optimized illumination depth offering perfect viewing conditions.
8. The life time of light source should be more than 50,000 hours.
9. Should have a BIANCE function in the Main Lamp Head through diffused backlight which is used for orientation and movement purposes during an endoscopic intervention.
10. Should be seamless with sealed construction meeting stringent hygiene requirements.
11. Should be homogenous light field and 360 deg. Illumination with 108 LEDs (Main Lamp) and 18 LEDs (Satellite Lamp).

    Technical features:

    Main Lamp
    a. Central illuminance : 160,000 Lux
    b. Electrical dimming capability : 48000-160000 Lux
    c. Colour temperature : 4500K
    d. Focusable size of light field at a distance of 1m: 200-330mm
    e. Colour rendering index Ra : 96
    f. Illumination depth without additional Focusing (L1/L2) : 1100 mm
    g. Weight of light head: not more than 18 Kg
    h. Light head power consumption: Not more than 60 W
    i. Temperature increase at head light : < 1 deg C

    Satellite Lamp
    a. Central illuminance : 100,000 Lux
    b. Electrical dimming capability : 25000-100000 Lux
    c. Colour temperature : 4500K
    d. Size of light field at a distance of 1m : 170 mm
    e. Colour rendering index Ra : 96
    f. Weight of light head: not more than 3Kg.
    g. Light head power consumption: Not more than 25 W
    h. Temperature increase at head light : < 1 deg. C

12. Should meet international safety standards ISO and European CE marked.

Item no. 8

High Definition Ultrasound Machine with Colour Doppler 3D/4D

The system should be State of the art high resolution with full Digital technology with Broadband beam former & should be for Body applications including Abdominal, Ob/Gyn and Intracavitary like Transvaginal & Transrectal use and guided interventions.

Clinical application for which the system will be used

a. General abdominal
b. Gynecological -main use,
c. Obstetric, fetal -main use,
d. Transvaginal-main use,
e. Transrectal [intracavitary] possible future use,

f. Biopsy, interventional-occasional use,
g. Colour Doppler

Scanning capabilities required-

a. 2D
b. 3D with multiplanar reformatting, 4D - should be able to perform quantitative measurements on these images
c. M Mode, PW, CW, Colour Flow Imaging
d. Colour Power Angio,
e. Frame rate of 300 frames per second or more/Please specify the volume frame rate of the system offered
f. Tissue harmonic imaging capability
g. Harmonic imaging in Power Doppler Imaging Mode and ultrasound contrast imaging
h. Extended field of view imaging
i. Magnification facility
j. Cineloop facility-for 1 min at 25 frames per second, both frame by frame and in cine mode, with a memory for at least 500 in 2D/ color images and at least 30 seconds of Doppler and M mode data
k. Fast random access image review
l. Adjustable number and depth of focal zones-electronic adjustment of focal zone
m. Automatic tissue specific presets for Ob/Gyn applications
n. Customizable presets and calculations
o. Zoom facility (up to 4 times or more magnification) with high-resolution results in both real time and frozen images with facility of pre and post processing
p. Scroll facility with zoomed images
q. Imaging depth of 30 cm and more

Transducers required

a. Broad band Curved (convex) array probe with frequency range of 2-5 MHz,
b. Broad band Endocavity (Transvaginal / Traansrectal) Broad band transducer with frequency range 4-9 MHz,
c. Broadband volume curved array probe for 3D & 4D imaging with frequency range of 2 - 5 MHz [quote as optional]
d. System should be able to support at least three active electronic transducers with universal ports with simple electronic selection method for interchanging transducers
e. Biopsy attachment for the convex and endocavitory probes.

Physical features

a. High resolution TFT/LCD, Non-interlaced image monitor of 15-19 inches or more with tilt and swivel facility,
b. Screen position flexibility
c. The unit should have slide TGC & LGC gain controls with pre-defined curves,
d. An alphanumeric keyboard with illuminated keys and status display
e. Key board platform rotatable and moveable up and down
f. Foot switch operation for freeze and expose facility to be available
g. Mobility- Unit should be housed on a mobile trolley.

Measurement analysis facility

1) Standard Measurement e.g. distance, area, circumference
2) Extensive specialized measurements/ analysis calculation- for ob/Gyn applications
3) System should have automatic real time quantification of Doppler parameters

Annotation documentation

a) Display annotation
   i) Patient, centre, date identification
   ii) Text and anatomical site markings
   iii) Ultrasound setting and indices

b) Documentation
   i) Connection to local laser printer facility/ imaging network
   ii) Ability to store images digitally > 0.5 GB
   iii) Removable storage media [DVD, CD or MO].

The system should have in-built image management system with greater than one lac imaging storing facility in hard-disc drive. CD writing facility and USB port.

Miscellaneous: On line UPS with capacity for half hour backup to support all functions of the equipment i.e. Performing ultrasound procedure or copy on a CD.

Safety, compliance, quality assurance-Electrical safety testing annually, regular maintenance and quality assurance by qualified personnel

Equipment trial and training- Appropriate onsite training of all consultants in using all applications.
Upgrading requirements - A free, comprehensive software upgrade (compatible with the existing platform for 10 years (after installation), equipment review and replacement-review every five years and up-gradation accordingly

Guaranty/Warranty

a) Five year comprehensive warranty of entire system (Spares and labour) including transducers and all accessories.
b) Post warranty annual comprehensive maintenance contract (labour and spares) to cover, complete system including transducers and all accessories, should be quoted separately for additional five years with year wise break up.
c) Uptime guaranty of 95%. If the downtime of the unit exceeds 5% the period will be extended for double the downtime period during warranty and subsequent CMC period.

Instruction to the Supplier

a) Supplier must ensure availability of expertise service and maintenance at site of installation.
b) Uninterrupted availability of spare parts and repair for next ten years must be assured.
c) Equipment should be ISO /CE/FDA certified. Mention the number (with addresses and phone numbers) of installations of the quoted unit in Delhi and performance report from Govt.Hospitals.
d) The company should provide demonstration of the quoted model and final technical approval will be based on satisfactory demonstration.
e) Undertaking from the principal manufacturer for maintaining the equipment in case of change of local agency.

Warranty - 5 years comprehensive guarantee with next 5 years comprehensive AMC. Supplier should

also guarantee 95% of machine uptime. If any time it goes to 5% or more the penalty will be extension of guarantee period double of that time (from the date of that complain till machine starts working). This will be maintained and implemented in AMC too.

Item no. 9

Combined generator for ultrasonic cutting & coagulations device with advanced Radio-Frequency energy

A. Generator

1) System should be a single generator with footswitch that provides Ultrasonic energy and Advanced RF energy technology for soft tissue dissection and vessel sealing.
2) Should have the ability to select hand switch or footswitch activation or both for Ultrasonic and advanced RF energy instruments and the ability to change selection during use.
3) Should have very minimal lateral thermal with spread not more than 1mm.
4) Should have standby mode to ensure safety.
5) Should be able to power ultrasonic energy instruments with 55.5 KHz frequency.
6) Should be compatible for open and laparoscopic surgery.
7) Should be able to power energy instruments with microprocessor controlled bipolar electrosurgical radiofrequency technology with a quasi-sinusoidal forced impedance output
8) Should be equipped with smart advanced RF energy technology to measure the tissue impedance and control the power delivery and that can simultaneously seal and transect vessels up to and including 7mm, large tissue pedicles and vascular bundles.
9) Should provide temperature controlled energy delivery which should maintain tissue temperature approximately at 100 degree Celsius and hand instruments that provide tissue / vessel seal strength to withstand bursting pressure of 7 times the systolic pressure.
10) All hand probes for open and lap procedures should be able to simultaneously cut and coagulate tissues and also works separately.
11) Should have the ability for software updates via USB memory stick.
12) Should conform to the following international standards EN (IEC) 60601-1, EN (IEC) 60601-1- 2, EN (IEC) 60601-2-2, EN (IEC) 60601-1-8 & System should be CE approved.
13) Should provide Class 1 protection against electric shock.
14) Should come equipped with system diagnostics and troubleshooting guide to pin point any problems in the system.

B. Foot switch & cable

C. Accessories

1. Hand piece/ Hand pieces (Transducer) compatible with various hand instruments used in open & endoscopic surgery.
2. Generator cart
3. Adapters for ultrasonic & advanced RF energy
4. Cables necessary for functioning of the system.

Item no. 10
Endoscopy Unit

a) High Definition Three Chip Camera System

1) Camera control unit with 3 chip HD camera head.
2) Pure Digital signal with high definition video (around 1920*1080 P native resolution) with aspect ratio around 16:9 with DVI and DV and SDI output.
3) Integrated Flexible Scope filter.
4) Progressive scan technology.
5) Brightness control.
6) Aperture Control
7) Automatic digital image enhancer.
8) Parfocal optical zoom & white balance.
9) Integrated Gain / shutter / enhancement with brightness control.
10) Two peripheral control on camera head.
11) 2 DVI output
12) 2 SVHS & 1RGB output
13) One Composite output.
14) Should have USB interface for direct storage of video sequence.
15) The camera head should have integrated zoom and focus lens to make it fully soakable.
16) Should be IEC 601-1, CE according to MDD.
17) All features of camera to be accessed via camera head buttons.
18) Automatic and manual exposure control settings.
19) Controlled by a keyboard connected to camera control unit.
20) Have protection against all electric shocks.

b) High Resolution HD Video medical Monitor

26-24" High Definition Medical grade Monitor, resolution 1920 X 1200 with DVI input with LED screen, option for wall mounting and desktop in same unit, Fast response time (5-12ms), Number of colors:16.8 million, Luminance: 400cd / m2. Contrast ratio: 700:1 to 1000:1, Vertical / Horizontal Viewing Angle: 178 degree -176°, Membrance style button which are enclosed to prevent dust collection.

c) Xenon Light Source:

Xenon light source of 300 watts
Should be able to produce color temperature of 6000K
Should have continuous manual adjustment of light output.
Should be offered with one spare xenon lamp 300 watts.
Should be certified IEC 601-1 and CE according to MDD.

d) Fiber Optic Light Cable:

Fiber Optic light cable of actual bundle size: 4.5-4.8mm, length: 250cm.

e) CO2 Electronic Inssufflator:

Electronic CO2 insufflators with pin index connection,
Should have an adjustable flow rate of 0 to 20 liter per minute and a pressure range adjustable between 0-30mm Hg.,
Preset and actual value for pressure and flow should be displayed together on the front panel in digital display.

Constant monitoring of intra-abdominal pressure; any overpressure is released immediately with back flow with acoustic alarm, Unit should have in-built heater to warm up and preheat the CO2 gas,

Should be able to select either central supply (4.5Kg/cm2) input pressure from central supply as well as direct connection to high pressure CO2 cylinder and should indicate the right inlet pressure of CO2 gas supply by bar graph on front panel of machine.,

Unit should produce immediately acoustic alarm in case of sudden blockage in the gas outlet tube or wrongly placed Veress Needle.

Provided with Silicon autoclave tubing with luer attachment.

Instrument should work on a universal power supply of 100-240 V, with a frequency of 50 Hz single phase.

Electrical Safety certification - IEC-601-1 and CE acc to MDD.

f) Telescope for Laparoscopy

Forward oblique telescope 30 degree enlarged view size 5 mm rod lenses system 29-31 cms autoclavable, Fiberoptic light transmission incorporated.

g) Straight forward telescope

0 degree enlarged view, size 10mm rod lens system, length 30-31 cms, autoclavable, Fiberoptic light transmission incorporated.

h) HP Hose:

Suitable high pressure hose pin index to connect the gas to insufflator, length: about 1.0 meter.

i) CO2 Cylinder

5 Kg. Carbon Dioxide bottle with pin index connection with wrench.

j) Electro Surgical Unit:

Microcontroller based Digital Electrosurgical Cautery 200-500 Watts with Digital Display Push Switch Control Provides Consistent Performance for General Surgical Procedures & delivers its optimum & Reliable Power by using latest & Advance Technology, Convenient for all Surgical Application, both endoscopic & open surgeries. Unipolar as well as Bipolar facility having operating frequency between 500-700 KHz.

Must have Patient Plate Contact Quality

Monitoring system - With this Silicon Dual Pad Patient Plate Contact Quality Monitoring Takes Place, the moment the contact between Plate & Patient reduces it stops the HF delivery with an audio visual indications and safety mechanisms to be quoted.

Independent Mono-polar & Bipolar Output can be used without any switch over from the machine: - Facility for pure cut about 300 watts, blend cut 250 watts, endocut 200 watts, Bipolar cut and coagulation 120-100watts. In accordance with IEC 60601-1 and IEC 60601-2- 2; CE certified.

Unit should be supplied with footswitch, patient plate, patient cable, hand control pencil with standard accessories towards patients end instruments.

k) Video Trolley

Suitable video trolley to be supplied for mounting equipments like with antistatic wheel casters, front lockable, high grade of electrical insulation and earth protection. 5 Ampere socket, 5 to 7 Nos., inbuilt with trolley to connect all electronic devices. CO2 bottle stand, a drawer unit with inbuilt isolation transformer.

Compatible with additionalswivel armfor secondary monitor.

6-8 equipotential plugs.

Camera mount.

l) Sterilization / Disinfection Tray:

Disinfection / Sterilization stainless steel tray of steel grade 304 with sieve tray to lift. Size: about 27" x 7" x 5" (LxBxD)

m) Formaline Chamber:

Formaline Chyamber made of Virgin Acrylic about 4.5 mm thickness; size: 26" x 8" x 8" (LxBxD) with three trays, for sterilizing the laparoscope, preferably with three tray.

n) UPS 2.0 KVA:

UPS-2.0 KVA off line with one hour backup time (at1200 Watts real load) with SMF Batteries. Should be able to work on wide input range between 160-270 VAC at frequency between 50Hz ± 2Hz, should use PWM technology with power conversion with single transformer arrangements with an output of 220 VAC ± 5%, protection of overload, short circuit and low battery, should have indication on front, panel for mains load / battery load / battery overload-low and MCB protection in case of short circuit. ISI /CE approved good quality Indian make.

o) Full HD (1080P) image and Full HD (1080P) video recording and data archiving system.

- User friendly software designed specifically for medical purpose.
- Captures still images, video sequences (from 3 sources) and audio files.
- Record still images and video in FULL HD at Resolution of 1920x1080P
- Writes multi-session and multi-patient CDs/DVDs.
- Controllable via Touch screen, camera head buttons, footswitch mouse and keyboard.
- Supports network storage on file servers.
- Supports FTP storage.
- USB support for storage on USB drives.
- Customizable print-outs for documented information.
- Prints to any connected printer (local or network) HIPAA compliant
- Buffer system to insure reliability
- Medical grade unit CE certified, ICE 60601-1 Motherboard: Embedded FLEX-ATX
- Microprocessor: Intel Core 2 DUO T7400
- Graphic: Intel Extreme Graphics 2 Controlled onboard.
- Grabber-card: DVI-D, S-Video, Composite;
- Optional: AGP Slot onboard.
- RAM: 2 GB DDR2 P0800
- Hard Disk: 500 GB SATA 3.5"
- Drive: Slim SATA Blu-Ray/DVD-RW/+R
- PCI Slots: 3xPCI
- LAN: 3X10/100/1000 Mbps onboard
- I/O Ports: 2xPS/2, 2xSerial, 3xRJ45(LAN), 4x USB 2.0 (1 x Front), 2 x Audio (Line In, Line Out and Microphone), VGA;
- D1COM and HL7 interface
- Grabber-card: DV1-D, SDI, S-Video, Composite;

The DICOM 3 interface shall be installed to the system in order to allow the surgeon to view all the DICOM 3 images stored in the PACS system on a digital light box within the operating rooms. Furthermore, all intra operative images recorded can be sent via the DICOM 3 interface to the PACS system for further processing.

The HL7 interface system shall be connected to the image and Data Archiving System to allow the patients demographics to be downloaded directly to the patients data file.

p) Fiber optic light cable

Fiber optice cable with straight connector, extremely heat resistant, about 260cm x 4.8mm.

Should be FDA, CE, UL or BIS approved product, minimum 5 years from this ITB.
Comprehensive warranty of 5 years and CMC of 5 years.

Manufacturer / Supplier should have ISO certification for quality standards. Product should have IEC safety standards wherever listed.
The core operating laparoscope like Telescopes, Endovision Three chip DH camera, light source, CO2 Insuffators, hand instruments (bipolar forceps, unipolar forceps, HF needle etc.) fiber optic cable, veress needle, video monitor should be from single manufacturer for system compatibility.

Item no. 11
Mini C Arm for Hand Surgery

1. Compact design requiring 5-6 sq. ft floor space
2. 1K X 1K high definition image
3. Approximate 45 micron focal spot size
4. Automatic exposure and dose control Ultrafine low dose fluoroscopy
5. Digital memory hard disc
6. Rewrittable CD / DVD ROM drive and USB
7. Dicom compliant
8. Laser Printer
9. 5 years warranty on all supplied items including x-ray tube accessories.
10. 5 years comprehensive maintenance charge (CMC) of all items.

Item no. 12
C-ARM IMAGE INTENSIFIER

Mobile C-Arm Image Intensifier suitable for use in Operation theatres with feather touch Control Panel.

IMAGE INTENSIFIFER:

1. Image Intensifying Tube: 9 Inches, Triple Field.
2. High Resolution Compact CCD Camera
3. Monitor (2 Nos): approx.19" LCD Monitors along with a trolley.

C-ARM MOVEMENTS:

1. Rotation: ± 180 Degrees.
2. Motorized Up/Down: approx. 430mm or more
3. Horizontal Travel: approx. 220 mm or more
4. Arc Orbital Movement: approx. 120 Degrees.
5. Wig Wag: Approx. 25°

X-RAY GENERATOR:

1. High Frequency (approx. 50 KHz)
2. Output power approx. 6 KW
3. Rotating Anode Tube of focal spot approx. 0.3mm & 0.6mm or less.
4. Manual and automatic mode fluoroscopy, with single and multipulsed fluoroscopy
5. Unit should have the following parameters
   (a) KV Range 40 to 120 KV (approx)
   (b) Radiographic mA: approx. 30mA to 100mA or more
   (c) Fluoroscopy mA: up to 5 mA or more (Normal mode)

CONTROL: Control should have the following:

1. Digital Display of KV, mA & FLR TIME.
2. ADRC MODE: Auto Dose Rate Control for consistent image quality.
3. Indicators for left/right, up/down Image Rotation should be provided on Control Panel.

4. Thermal Safety cut off.
5. The unit should be operable on Single Phase 230 V ±10% AC, 50 Hz
6. Automatic Brightness Stabilizer should be provided.
7. Provision on Control Panel for easy identification of faults to minimize the downtime.
8. Motorized Iris Collimator with auto shut off facility for light should be provided.

MEMORY SYSTEM should include the following: -

1. 2 Monitors System for LIH, LIVE and Stored Images.
2. Permanent Image Storage capacity of Approx. 10.000 Images.
3. Approx. 50 Temporary Image Storage for quick review.
4. CD writer to Store Images on CD for giving it to Patients.
5. 32 Bit Image Storage for Excellent Resolution.
6. Image Sharpening (Real-time or Stored Images). flipping and rotation
7. Patient's Name. Operator Name, Hospital Name, Date & Time display on Monitor.
8. Facility for Image Printing and LAN connectivity.
9. PULSE Fluoroscopy and DICOM compatible.

ACCESSORIES:

1. Lead Apron (Lead Equivalence 0.5 mm) regular size and Thyroid shied - 6 Nos each.
2. Laser and Thermal Printer - 1No each

OTHER REQUIREMENTS:

1. The company should be ISO 9001:2000, ISO 13485:2003
2. The Equipment must be CE Certified and should be approved by AERB
3. The company should have a local Service center
4. 5 years warranty on all supplied items including x-ray tube accessories
5. 5 years comprehensive maintenance charge (CMC) of all items.

Item no. 13

ULTRASONIC BONE CUTTING DEVICE

1. Ultrasonic cutting device for bones.
2. It should cause minimum or no damage to the soft tissues, vessels and nerves with maximum tip vibrations up to 200 micron and ultrasonic frequency in the rage of 25 to 35 KHz.
3. The system should have provision for continuous irrigation flow at the bone cutting site.
4. The system should have full sets of 5-7 surgical tips for all kind of interventions, hand piece, pneumatic footswitch and irrigation sets.
5. The system must have user selectable programs for power, vibrations and irrigation flow rate.
6. The tips should be provided in an autoclavable container.
7. The system should meet the highest International safety standards and should be manufactured by ISO certified company.
8. Company should provide performance / Installation certificates from different departments/ Government Hospitals.

Item no. 14
Pneumatic High Speed Burr System

1. Should have following non-consumable components —

   i. HAND PIECE (Motor + Attachment / Coupler) —
      a. Quantity — At least one
      b. Should be compressed air operable
      c. Should be light in weight (less than 300 grams)
      d. Should be comfortable enough to hold like a pen
      e. Should have a high speed motor
      f. Motor should have maximum speed of at least 60,000 rpm
      g. Should have control for continuously running the motor and controlling its speed
      h. Should have a keyless quick release and lock mechanism for tools and attachments either directly or through a coupler
      i. Should be able to run in both forward and reverse direction as required
      j. Should not heat up on regular use
      k. Should be autoclavable
      l. Burrs should be attachable on the handpiece either directly or through a COUPLER / ATTACHMENT which should be provided alongwith

   ii. CABLES, CORDS AND TUBINGS —
      a. Quantity — At least one per attachment
      b. Should be at least 4 meters in length
      c. Should be flexible, of good quality and should not break easily on twisting or tugging
      d. Cables, cords and tubing connecting the console with the headpiece should be autoclavable
      e. Cable connecting with handpiece should be light weight to reduce drag.

   iii. TROLLEY / TOWER —
      a. Quantity — One
      b. Trolley / Tower to house the console and components 1should b provided so at to reduce wear and tear due to shifting

2. Should have following consumable components —
   i. BURRS —
      a. 3 mm round diamond burr (Quantity 300)
      b. Metal Cutting Burr (Quantity 100)

3. The lubricant for the system (if required) as per standard recommendations of the company should be provided along with to cover at least 500 surgeries.

4. All the consumable components should he attachable on the non-consumable components and working.

5. All non-consumable components (except autoclavable ones) should have tagging / labling mentioning the unique serial number of the equipment.

6. All consumable components should be from same manufacturer as the non-consumable

components.

7. The company supplying the equipment should provide with a list of atleast 10 hospitals / institutions along with department and contact number where the equipment has been installed in past 5 years in India (preferably Delhi)
8. Warranty for non-consumable components should be for atleast 5 years for both parts / spares and labour (inclusive of all taxes) from the date of working installation.
9. Further 5 years AMC should be provided to cover labour costs (spares chargeable) towards maintenance (inclusive of all taxes).
10. Installation should include demonstration of equipment working and maintenance.
11. Warranty should cover routine / normal expected wear and tear of the components.
12. The companies service centre should be located in NCR.
13. Company should provide one landline / helpline phone number for contact with service / after sales personnel. Also one mobile number of one service technician should be provided for contact in case of breakdown. In case of any change of phone / mobile number anytime, it should be intimated to the procuring department.
14. In case of non-working, Company should be able to provide service within 24 hours of telephonic intimation.
15. The equipment should be brought into working condition within 24 hours of technician visit otherwise a temporary working replacement should be provided by the company free of cost.
16. Company supplying the equipment should be the manufacturer of the equipment. If company supplying the equipment is not the manufacturer of the equipment, it should -provide an authorization letter from the manufacturing firm certifying that it is an authorized channel partner for sale, service, maintenance and repair of the equipment.

Item no. 15

Electric High Speed Burr System

1. Should have following non-consumable components –

   i. CONSOLE -
      a. Quantity - One
      b. Speed adjustment should be possible from the console
      c. Should have attachment for hand piece and foot control through cables, cords and tubings
      d. Should have options of attaching drill bits, mini saws and burrs through cables / handpiece

   ii. HAND PIECE (Motor + Attachment / Coupler) –

      a. Quantity – At least One
      b. Should be electricity operable
      c. Should be light in weight (less than 300 grams)
      d. Should be comfortably holdable in a pen like fashion
      e. Should have a high speed motor
      f. Motor should have a rpm of 60,000 or more

g. Should have a keyless quick release and lock mechanism for tools and attachments either directly or through a coupler
h. Should be able to run in both forward and reverse direction as required
i. Should not heat up on regular use
j. Should be autoclavable
k. Burrs should be attachable on the hand piece either directly or through a COUPLER / ATTACHMENT which should be provided along with

iii. FOOT CONTROL –

a. Quantity - One
b. Should have control for continuously running the motor and controlling the speed.
c. Foot pedal should have a large pedal surface

iv. CABLES, CORDS AND TUBINGS –

a. Quantity - At least one per connection
b. Should be at least 4 metres in length
c. Should be flexible, of good quality and should not break easily on twisting or tugging
d. Cables, cords and tubings connecting the console with the handpiece should be autoclavable
e. Cable connecting handpiece with console should be light weight to reduce drag.

v. TROLLEY / TOWER –
a. Quantity - One
b. Trolley / Tower to house the console and components should be provided so at to reduce wear and tear due to shifting

2. Should have following consumable components -
   i. BURRS -
      a. 3 mm round diamond burr (Quantity 300)
      b. Metal Cutting burr (Quantity 100)
3. The lubricant for the system (if required) as per standard recommendations of the company should be provided along with to cover at least 500 surgeries.
4. All the consumable hardware components should be attachable on the non-consumable components and working.
5. All non-consumable components (except auto-clavable ones) should have tagging / labelling mentioning the unique serial number of the equipment.
6. All consumable components should be from same manufacturer as the non-consumable components.
7. The company supplying the equipment should provide with a list of at least 10 hospitals / institutions along with department and contact number where the equipment has been installed in past 5 years in India (preferably Delhi)
8. Warranty for non-consumable components should be for atleast 5 years for both parts / spares and labour (inclusive of all taxes) from the date of working installation.
9. Further 5 years AMC should be provided to cover labour costs (spares chargeable) towards maintenance (inclusive of all taxes).
10. Installation should include demonstration of equipment working and maintenance.
11. Warranty should cover routine / normal expected wear and tear of the components.
12. The company’s service center should be located in NCR.

13. Company should provide one landline / helpline phone number for contact with service /after sales personnel. Also one mobile number of one service technician should be provided for contact in case of breakdown. In case of any change of phone / mobile car anytime, it should be intimated to the procuring department.
14. In case of non-working, Company should be able to provide service within 24 hours of telephonic intimation.
15. The equipment should be brought into working condition within 24 hours of technician visit otherwise a temporary working replacement should be provided by the company free of cost.
16. Company supplying the equipment should be the manufacturer of the equipment. If company supplying the equipment is not the manufacturer of the equipment, it should provide an authorization letter from the manufacturing firm certifying that it is an authorized channel partner for sale, service, maintenance and repair of the equipment.

Item no. 16

Paediatric Ventilator for PICU

Modes:

- IPPV, SIMV (vol controlled and pressure controlled), MMV (Pr limited ventilation) CPAP, ASB (Pr. Support), Apnea back up
  APRV mode with release time settings of 100 ms

Parameters

- Tidal volume 10— 2000 ml (neonatal, pediatric and adult) Compensation for air leaks
- Inspiratory flow 6-1201/min
  Auto flow
- PIP 0-60 cm H20
- PEEP/CPAP 0-25 cm H_20
- Frequency 0-60 bpm
- ASB 0-50 cm H_20
- I:E ratio 1:6-6:1
- Flow trigger

Screen

- Intelligent software warning for universal settings
- Colored LCD screen
- Curves of pr/time, flow/time, volume/time 2 graphs at a time
- Digital values of monitored parameters
- Loop for Pr, Vol, flow

Monitoring

- P max, P plateau, P mean, PEEP/CPAP
- TV, MV, MV spont
- Leak
- Lung parameters - resistance and compliance

- FIO2
- Frequency, spont frequency
- Alarm system with audio and video signals
- Help messages for alarm conditions and extreme settings

Special functions -

- Inspiratory and expiratory hold
- 100% O_2 for suction
- Integrated nebulizer with inspiratory synchronization
- Works on 21% and 100% O_2
- 1000 alarm values record
- Trend memory with Zoom and graphic representation of measured values for up to 24 hours
- Occliusion pressure measurement
- Intrinsic PEEP measurement
- Automatic compensation for ET tube resistrance

Necessary additional parts

- Compressor of same company
- Humidifier
- Hinged arm
- ped /neonatal circuits
- Battery backup of at least 1 hr
- Capnography

Item no. 17

Paediatric Ventilator for NICU

- Microprocessor based continuous flow, pressure limited, time cycled ventilator for neonates . upgradeable for additional functions.
- Inbuilt graphic screen Graphic Display
    - Minimum 12" TFT Touchscrecn operation.
    - Storage of graphic trends and trend tables up to minimum 10 days.
    - Direct access and readout of all parameters.
- The ventilator should have ventilation modes as below:
  IPPV /1MV,Assist Control, S1MV,CPAP integrated in same machine
- Should have settings for :

Peak Inspiratory Pressure	: 10 80 cm H_2O
PEEP	: 0 - 15 cmH20
Inspiratory Time	: 0.1 - 2 sec
Expiratory Time	: 0.2 - 30 sec
FiO2	: 21 - 100%
Inspiratory flow	: 1 - 30 lpm

- Should have real time monitoring and display (set and measured) of:
    - Pressure - Peak, CPAP/PEEP
    - Expired Tidal Volume (Monitored), Expired Minute Volume, leakage in %

- Frequency/ Rate - Set (Inspiratory), Spontaneous MV in %, total , I:E ratio
- Fi02
- Lung Mechanics - Resistance, Compliance , C20/C, Time constant Tc, RVR

- Should have automatic alarm settings for all alarms. MV alarm can be manually adjusted along with alarms for :
  - Disconnection,High/low Pressure,High/low Minute Volume
  - Apnoea ,High/low 02 % ,Oxygen line failure,Compressed air failure
  - Total electronic failure (with error code)

- Scope of supply should include
  - Basic Unit (220 - 240 V)
  - Modular corrosion free Trolley
  - Reusable Hose set for neonates
  - Servo controlled humidifier with reusable chamber
  - Flow sensor
  - O_2 cell
  - Nebulizer
  - Oxygen connecting Hose , Air connecting Hose
  - Hinged arm for support for patient circuit
  - Neonatal test lung
  - Instruction Manual

- Quality Standards and Support requirements –
  - US-FDA and/or Eur CE approved

Item no. 18
High Frequency Oscillation Ventilator for Neonates and Paediatrics

1. Advanced technology ventilator suitable for premature babies ≥ 600 gm. to Pediatric patients having body weight up to 40 kg.
2. Ventilator mode: **High Frequency Oscillations with active exhalation technology.**
3. Should have adjustable FiO_2 between 21-100%, Frequency 3-15 Hz and Oscillatory Pressure range up to 50 cm H_2O and Mean pressure from 3 - 45 cm H_2O.
4. Should display Mean Airway Pressure; Oscillatory Pressure amplitude & % inspiratory time.
5. Should have alarm setting for low / high mean pressure.
6. The bidder should attach list of installations in Delhi and performance report from at least 3 users in Northern India.
7. Each Ventilator besides meeting all above features must be quoted with at least the following accessories :
   a) Medical Grade oil free compressed air delivery system that stays as stand by and in the event of loss of air pressure, the compressor must start up immediately as well as should be able to run continuously in case compressed air supply is not available at all.
   b) Servo Controlled latest heated humidifier with 2 Neonatal / Pediatric jars; 2 Temperature probes.
   c) Complete Ventilator Circuits: 4 sets.

d) One integrated trolley / Pedestal stand with good quality castors to easily move the ventilator within the hospital.

e) Oxygen / Air delivery hoses as applicable. The vendor should also arrange to supply the nipples for the hoses that are compatible with hospital's AIR and O2 supply sockets.

f) Online compatible UPS with MF batteries to power the complete ventilator with compressor for at least 20-30 minutes to be supplied along with the unit.

8. Service center /office in Delhi NCR.
9. Availability of service and spares for 10 years.
10. Rates of CMC (as % of cost of equipment) after expiry of warranty period must be specified in the cost.

Item no. 19

LED Ceiling OT Light with Camera System

1 Flat, compact and Dual Dome surgical pure white light based on White LED technology.
2 Each light-head should consist of several, symmetrically arranged light emitting modules, using LEDs for a shadow free and homogeneous illumination of the surgical field.
3 Surgical light should consist of :
One Central axis and four rotatable extension arms. Having Two arms (approx.800mm to 1000mm) to hold two equal size domes (Main & Satellite) ; one arm to hold LCD monitor and fourth height adjustable spring arm with provision for electrical connecting system 220V(50Hz.) power sockets, Video HDMI input/ output, provision for connecting other OT equipment and gadgets.
4 All horizontal arms should be freely rotatable through 360° (without stops) at all vertical joints.
5 Aerodynamic designed dome of the light head should not obstruct the effect of laminar air flow systems. The Light-heads (diameter not above 700mm) should be made of power-coated aluminium die case, with smooth and clean surfaces that are easy and safe to clean.
6 Dimming facility of light of 4 to 6 levels without change of color temperature
7 The switching off/ on and light intensity of both domes should be adjustable both from the wall control unit having LCD display and also from light handle on the dome.
8 No heat emission through IR radiation.
9 The optical light system should be between 90 to 200 LED's, with its own lens. In case of failure of one light source (LED), the illumination of the light field should not be affected.
10 Should have the provision of Ambient (Endo) Green Light so that during usage of Scopes, lights can be switched off and operations can be carried out in ambient light.
11 Other functions like Camera switching Off/ On and zoom should be also be controllable from LCD control centre by the surgical team.
12 Lighting intensity at 1m distance : 150,000 Lux from each Light-head
13 Size of light field at 1m distance : 20-25 cm
14 Colour temperature of: 4000k- 4500k
15 Colour rendering index: RA100 approx
16 R9 (deep saturated red colour index): around 100 approx
17 Life span of main light source should be minmum 25,000hrs
18 Supply voltage: 110 - 240 V AC / 24V DC / 24 VAC
19 Each Light set should be supplied with 2 Aluminium Sterilizable handles, 100 nos disposable light handle cover and 25 nos disposable camera covers.
20 Provision of integrating the OT Light in future with Integrated OT s system should be there.
Light Head Central axis mounted multiformat (full HD) Camera

21 Light should have central-integrated full high definition video camera system with sealed camera optics to save it from dust and fluids. Camera should not need independent power connection and should draw power from Light Head only.
22 Minimum 2 Megapixel full HD camera with 1/3 type CMOS sensor with 120x Zoom ration (10x Optical & 12x Digital) with possible to take video of object from min. 10mm distance.
23 The camera should have a digital signal processing and digital zoom lens (10x optical zoom)
23 The camera should have a digital memory mode to capture digital images directly into the DVD recorder for easy transfer to DVD disc/ recording system with S/N Ration of >59dB.

Flat Panel Monitor

24 LCD Flat Panel HD Monitor of min. size 26"

WARRANTY, CMC AND CERTIFICATION

25 Minimum warranty of 60 months after successful installation. The warranty must cover each and every part of the equipment and its accessories.
26 The firm should have trained Engineers based in India to provide service within 48 hrs of call.
27 The LED OT Lights should be having US-FDA or CE (European directive) certification
28 The equipment should be designed to comply with existing international standards in terms of safety and performance i.e. IS09001/1S0 13485, IEC60601 and UL Standard. Having EMI/EMC testing EN60601-1-2-2001- electromagnetic compatibility
29 All technical specifications accepted in the compliance statement must be supported by printed literature from the firm.
30 Provision of satisfactory usage certificate from minimum Three Govt. Hospital based in India

Item no. 20

VESSEL SEALING SYSTEM WITH FOUR MONOPOLAR AND BIPOLAR CAUTERY

- Integrated system with 300W output generator and touch screens for Monopolar, Bi-Polar and Vessel Fusion integrated in one generator.
- The system must be micro-processor controlled which should identify the tissue type with a feedback of thousands times/second on real time basis, and adjust the power to get the desired surgical effect on the tissue.
- System should have 2 monopolar output, 1 Bipolar output, 1 endoscopic monopolar output and 2 Vessel Sealing output.
- System should have separate monopolar, bipolar & Vessel Sealing foot pedal.
- Should provide monopolar output for cut, coagulation (fulguration & spray) & blend in multiple levels
- Should have bipolar cut and coagulation in multiple levels with automatic bipolar coagulation
- Activation by foot switch and hand switch for all the modes.
- Activation of bipolar by foot switch and automatic start/stop system
- The system should have two different Vessel Fusion outputs which should be able to seal a vessel up to and including 7 mm in diameter and tissue bundles without dissection, isolation, sticking or charring. When the seal cycle is complete, output to the hand-piece should be automatically discontinued with an audible tone. Seals should withstand three times normal systolic blood pressure. The technology should monitor changes in tissue impedance thousands of times a second, and should adjust energy output accordingly to deliver the appropriate amount of energy for the desired tissue effect. Feedback-controlled response system should automatically discontinues energy delivery when the seal cycle is complete, eliminating the guesswork. (supporting documents in unambiguous language regarding this must be provided, both in original product brochure/catalogue of the manufacturer and by external agency like FDA)

- The Vessel seal system should be of minimum of 150W.
- System should have bipolar resection with saline facility
- Should be compatible with Storz and Wolf Resectoscope
- Machine should display error and not get activated if Return electrode monitoring(REM) is not connected
- System should have audio-visual alarm facility, to indicate any breakage of direct contact between the patient and patient plate.
- Integrated seal with choice of cut of 10 mm and 5 mm should be there.
- System should have 5 mm vessel sealing electrical instrument with Blunt tip for dissection and faster procedure.
- Both Footswitch and hand control mode should be available.
- Should meet international quality such as European CE, ISO, FDA approved to medical directive and european standards.
- The system should be compatible with argon machine & smoke evacuation system.
- Universal adaptor should be there
- Open & laparoscopic 10mm and 5mm seal and cut instrument should be there
- Should have 5mm multifunctional laparoscopic device for tissue fusion and dissection
- Separate Neonatal and infant pads should be supplied
- Small Jaw, vessel sealing instrument with cutter should be supplied which has thermal spread < 1mm.
- All instruments should be from the same manufacturer as the unit.
- Mobile trolley from the same manufacturer should be provided.
- Voltage corrector /stabilizer of appropriate ratings meeting ISI Specifications (Input 160-260 Vand output 220-240V and 50 hz
- Standard accessories: The quotation should clearly mention the accessories (including quantity) which are part of the main equipment and the price of which is included in the main equipment. The instrument chnuld he fully functional with the standard accessories
- List of important spare parts and accessories with their part number and costing should be provided for easy purchase of accessories later on

The following accessories should be supplied with the system

1	Monopolar, Bipolar, Vessel Sealing Foot Switch	1 pcs each
2	Open surgary sealer& cutting inst.(complete set)	5 pcs
3	Small 7.5 inch. Sealar & cutting inst.(complete set)	10 pcs
4	5 mm Laparoscopic sealer and cutting instruments(complete)	25 pcs
5	10mm Laparoscopic sealer and cutting instruments(complete)	10 pcs
6	Monopole Hand switching Pencil	100 pcs
7	Patient Plates Disposable(Pediatrics/Neonatal)	200 pcs
8	Universal Adapter	1pcs
9	Wire L-Hook tip more than 25cm long	10pcs
10	Monopalar Laparoscopic cord	5 pcs
11	Bayonet Bipolar forceps with cord	2pcs

12	Disposable/ Reusable Laparoscopy vessel sealing instrument(Maryland)	02 set
13	Disposable/reusable vessel sealing instrument for open surgery suitable for pediatric (small jaw 150mm approx)	02

Item no. 21

Pediatric Video Gastro & Colonoscopy system

1. **Pediatric Video Gastroscope** — Should have

   i. High resolution. True colour video images
   ii. Large depth of field
   iii. Uniform image brightness-even under difficult lighting conditions
   iv. Wide angle optics with light transmitting capacity
   v. Enhanced control unit
   vi. Optimal position of control functions
   vii. Graduated, torsion-proof insertion sheath
   viii. Optimal instrument passage even at extreme angles
   ix. Robust supply tube with standard connection
   x. Direction of View - Forward Viewing
   xi. Suitable for pediatric therapeutic/diagnostic use

Technical Specification

Insertion tube Outer Diameter	5.5 mm or less
Working channel diameter	2 mm or more
Working length	1100 mm or more
Total length	1400 mm or more
Deflection of distal tip(up — down)	200°/90 or better
Deflection of distal tip (left — right)	100°/100° or better
Field of view	120° or more
Depth of field	3 — 100 mm or better
Direction of view	Forward view

The following accessories should also be included:

i. Carrying Case
ii. ETO Cap
iii. Leakage Tester
iv. Caps for Working Channel
v. Irrigation Tube
vi. Instrument Oil
vii. Bite protector, pediatric size
viii. Biopsy Forceps, oval cup
ix. Cleaning Brush
x. Cleaning Valve

2. Pediatric Video Colonoscope — Should have

i. High resolution. True colour video images
ii. Large depth of field
iii. Uniform image brightness-even under difficult lighting conditions
iv. Wide angle optics with high light transmitting capacity
v. Enhanced control unit
vi. Optimal position of control functions
vii. Graduated, torsion-proof insertion sheath
viii. Optimal instrument passage even at extreme angles
ix. Robust supply tube with standard connection
x. Suitable for pediatric therapeutic/diagnostic use

Technical Specification

Distal Tip Outer Diameter	13 mm or less
Working channel diameter	3.8 mm or better
Working length	170 cm or better
Deflection of distal tip(up — down)	$180/180^0$ or better
Deflection of distal tip (left — right)	150°-150° or better
Field of view	140°
Depth of field	3 — 100 mm or better

The following accessories should also be included:

i. Carrying Case
ii. ETO Cap
iii. Leakage Tester
iv. Caps for Working Channel
v. Irrigation Tube
vi. Instrument Oil
vii. Bite protector
viii. Biopsy Forceps, oval cup
ix. Cleaning Brush
x. Cleaning Valve

MEDICAL VIDEO PROCESSOR

i. Should be equipped with standard narrow band imaging capability and high resolution HDTV imaging [1080 interlaces] compatible with the above video scopes.
ii. Should have Integrated Image Processing Module.
iii. Fully compatible to the color systems PAL & NTSC.[SDTV]
iv. Should have HDTV and RGB output.
v. Processor is having the facility of Digital Image Processing for better tissue differentiation by means of an integrated Image Processing Module.
vi. Digital contrast enhancement
vii. Processor is having the additional facility of Electronic zoom,
viii. Integrated Still Image function.
ix. Auto Exposure System for consistent illumination level.

x. High horizontal image resolution of more than 450 lines[SDTV], 1080[HDTV], therefore even the finest variations in tissue structures are perceivable on a high-resolution HD monitor
xi. Automatic white balance with memory function
xii. Multilingual menu system.
xiii. Composite & S-VHS compatibility

XENON LIGHT SOURCE

XENON light sources should be easy to operate and offer outstanding light delivery in compact design.(300 watt)
Required Features:

i. Optimal light delivery.
ii. Excellent brightness with daylight spectrum.
iii. Infinitely adjustable luminous intensity.
iv. High-performance air filters with low noise level.
v. Lamp service life display
vi. Standby lamp with Easy lamp replacement.
vii. Integrated insufflations pump with 3 output levels.
viii. Special light for mucosal observation

Monitor

i. System should be supplied with suitable 17" or better LCD Medical Grade Colour Monitor[HD,1080 interlaces]

Other accessories

i. Imported mobile trolley (of same manufacturer) where the above instruments can be kept making mobile endoscopy unit
ii. Scope hangers for hanging the above scopes
iii. Suction with minimal noise and vibration
iv. Digital video recording, editing, image management, storage card and archival system compatible with above system and capability to take still images for presentation.

Item no. 22
HOLMIUM LASER

1. Should have wavelength of 2100 nm
2. Should have maximum power of 60 W
3. Should have repetition rate from 5 Hz —40 Hz
4. Should have aiming beam.
5. Should be supplied with 4 pieces of eye wear.
6. Should have availability of fiber size from 200 micron to 1000 micron.
7. Should be supplied with fibers size of 200 micron (Ten)
8. Should be supplied with fibers size of 365 micron (Ten)
9. Should be supplied with fibers size of 555 micron (Ten)
10. Should be supplied with fibers size of 150 micron for RIRS

11. Should be supplied with fibers size of 273 & 550 micron (one each number) for other applications
12. Should have technology to minimize damage to flexible scope lumen and laser optics.
13. Should be US FDA Approved
14. Should have fiber single use and reusable.
15. Should have installations in India in Govt. hospital.

Technical Specification:

Laser Type	Pulsed Holmium: YAG (THC:YAG)
Pulse Energy	0.2 to 3.5 JOU les (Max.)
Pulse Duration	350 microseconds
Pulse Rate	5-40 Hz variable
Aiming beam	3 mw Laser diode @ 635 nm
Cooling	Air cooling
Electrical	200/240 VAC, 50/60 Hz, 30 amp single phase

Accessories

- Sterilization tray for processing fibres
- Scope for inspection/visualization of fibre tip
- Fibre stripper

Item no. 23

C-arm Compatible Paediatric O.T. Table

1. The table should have a modular construction and a table top (including the mattresses) providing a large radiolucent area to facilitate intra-operative imaging. The table top should be off-center positioned, enabling 80-90% of all fluoroscopic procedures to be performed with normal patient positioning. The table should have a low profile small base for easy C-arm maneuverability and rapid cleaning of the floor between two cases.
2. It should have mobile battery and power operated electromechanical table with manual override (hand and foot).
3. It should be made of medical grade stainless steel/ alloy.
4. It should have a segmented radiolucent table top (each with its own mattress) with a longitudinal shift of at least 400mm for free movement of the C-arm. It should allow insertion of X-ray cassette from head to toe without manipulating the patient.
5. Table top length including head section drawn out should be maximum 1600-1700mm.
6. Table top width should be maximum of 450-500mm, including side railings.
7. It should have a range of height adjustment of approx .400mm.
8. It should have minimum + 20 degree Trendelenburg and —20 degree reverse Trendelenburg.
9. It should have minimum ±15 degree lateral tilt.
10. The leg section should be detachable and or have +20 to 90 degrees tilt.
11. The table should be motor driven by 220-240 electrical voltage.
12. It should have battery backup for at least 7 hours.
13. The table should have four heavy duty large diameter swivel castors with lock system for smooth running and maneuvering of the operating table. It should have also locking

arrangements at the base of the table. The castors should be able to adjust to the unevenness of the floor surface to keep the 0. T. table level at all times.

14. It should have fully electrically non-conductive foam pads and allow for fluoroscopic procedures, and conform to the highest safety standards.

15. It should have a full function cable remote control for obtaining different positions of the table with return-to-level and preferably programmable patient orientation.
16. The electro-mechanical adjustment for smooth and precise operation of head, upper back, lower back, leg section and kidney and all surgical and urological procedures should be possible.
17. The table should be provided with accessories (PEDIATRIC SIZE) such as anesthesia screen, IV pole, head rest, 1 pair arm rest, body straps, wrist straps, lithotomy poles, head section, modem set for remote diagnosis (desirable), leg holder, drainage basin with sieve, side supports, gel pads, mayo trolley etc.
18. The table should be manufactured by a reputed company having IS09001/BIS or European CE or US-FDA standards

Item no. 24

Pediatric Percutaneous Lithotomy set with Endovision System

PEDIATRIC PCNL SPECIFICATIONS

For small children (1-3 YEARS) and lower pole stones for supracostal access

a. Nephroscope For small children
   i. Nephroscope should have a size of 12-15 Fr
   ii. Working channel should accommodate instruments preferably 5-6 Fr
   iii. The degree of view should not be less than 6- 12 degree.
   iv. It should have an angled or parellel eye piece.
   v. Fibre light transmission should be incorporated
   vi. Light post adapter for Storz, Olympus and Wolf light cables
b. Dilatation systems (suitable for above nephroscope)
   i. Dilatation cannula for sheath 15-18Fr with central channel for guide wire
   ii. Dilatation cannula for sheath 16.5-19.5 Fr with central channel for guide wire
c. Operating sheaths (suitable for above nephroscope
   i. 15-18 Fr Sheath with obturator compatible with the above nephroscope- one only
   ii. 16.5-19.5 Fr Sheath with obturator compatible with the above nephroscopeone only
d. Forceps (suitable for above nephroscope)
   i. 5-6 f grasping forcep double action jaws should be supplied.-2 no
   ii. 5-6 f biopsy forcep double action jaws should be supplied- 2 no
   iii. 5-6 f scissor single action jaws should be supplied.2 no
   iv. stone grasping forceps of 2mm - 3 Nos
   v. 5 three pronged stone grasper of 2mm — 2 Nos
e. An applicator consisting of sheath and rod should be supplied so as to use with haemostatic agents like floseal and surgiflow.
f. Suction tube

For children- (3-7 YEARS)

a. Nephroscope for midsize children
   i. Nephroscope should have a size 17-21Fr and approx 200- 240mm length
   ii. The degree of view should not be less than 6- 12 degree.
   iii. It should have an angled or parellel eye piece.
   iv. 10-11 Fr working channel
   v. Fibre light transmission should be incorporated
   vi. Light post adapter for Storz, Olympus and Wolf light cables
b. Dilatation systems(suitable for above nephroscope)
   i. Metallic Telescoping Dilation set, 9-18 to 20 Fr along with two rigid and two flexible guide rod.
c. Operating sheaths(suitable for above nephroscope)
   i. 20-22 Fr Sheath compatible with the above nephroscope- one only
   ii. Hollow obturator and fascia' dilator
d. Forceps (suitable for above nephroscope)
   i. Grasping forceps fenestrated jaw for stone fragments.- 7Fr and 10Fr one each.
   ii. Stone grasping forceps - 2 nos
   iii. Three pronged stone grasper - 2 nos
   iv. Biopsy forceps 7 Fr
   v. Scissors.10 Fr.

e. An applicator consisting of sheath and rod should be supplied so as to use with haemostatic agents like floseal and surgiflow

f. Suction tube

For large children-(7-12 YEARS)

a. Nephroscope for larger children
   i. Nephroscope should have a size 24Fr and approx 190-210 mm length
   ii. The degree of view should not be less than 6-12 degree.
   iii. It should have an angled or parellel eye piece .
   iv. Fibre light transmission should be incorporated
   v. Light post adapter for Storz, Olympus and Wolf light cables
b. Dilatation systems (suitable for above nephroscope)
   i. Metallic Telescoping Dilation set, 9 to 24-27 Fr along with two rigid and two flexible guide rod.
   ii. Dilator- 27 Fr and Dilator 30 Fr
c. Operating sheaths(suitable for above nephroscope)
   i. 24 Fr Sheath with obturator compatible with the above nephroscope- one only
   ii. 26-27 Fr Sheath with obturator compatible with the above nephroscope- one only
   iii. Hollow obturator and fascial dilator
d. Forceps(suitable for above nephroscope)
   i. stone grasping forceps - 3 Nos
   ii. three pronged stone grasper— 2 Nos
   iii. grasping forcep fenestrated jaw for stone fragments.
   iv. Biopsy forceps
   v. Scissors.

e. An applicator consisting of sheath and rod should be supplied so as to use with haemostatic agents like floseal and surgiflow.

f. Suction tube

g. Appropriate rigid storage cases for above scope, sheath and accessories.(Three)
    i. Approx 5" deep
    ii. Should have three silastic bars that can accommodate 12- 15 pieces of Instrumentation and more so if have short items.
    iii. Should be useful for Sterilization, Storage and Transport.

PENUMATIC INTRACORPOREAL LITHOTRIPTOR (compatible with above scopes)

a. It should be Intracorporeal Lithotriptor for Urinary Stone fragmentation
b. It should have a compact Electronic Module to control the air pressure
c. It should have a foot switch for single and multiple shocks
d. It should have a locking arrangements to lock the required air pressure
e. It should have two standard hand pieces
f. It should have different sizes of probes as follows :
    i. Probe 0.6mm diameter, 605mm working length - 2 Nos
    ii. Probe 0.8mm diameter, 605mm working length — 2 Nos
    iii. Probe 1.0mm diameter, 605mm working length — 2 Nos
    iv. Probe 2.0mm diameter, 605mm working length —2 Nos
g. It should have a silicone tube to connect to the hand piece

h. It should have necessary accessories like spare silicone tubes(twenty), five nos. of silicone guide, a pack of seal etc.
i. It should have noiseless air compressor complete with accessories to activate the Pneumatic Lithotriptor
    i. Power supply: 100/120/230/240 VAC, 50/60 Hz
    ii. The offer should include one additional set of limited life accessories: Footswitch, etc.
    iii. The equipment should be of international standards having recent International certification for quality of product' for example USFDA/ ISO/ CE/ TUV certification. Authenticated and legible certificate for the same to be annexed.
    iv. Should be mounted on a mobile trolley of the parent company because of compatibility issues.

Important-

- Price of each individual items should be quoted separately for easy purchase of spares, if needed, at later date for smooth functioning of instrument.
- Standard Accessories: The quotation should clearly mention the accessories (including quantity) which are part of the main equipment and the price of which is included in the main equipment. The equipment should be fully functional with the standard accessories.
- List of important commonly required spare parts and accessories with their part number and costing to be provided.

PEDIATRIC ENDOVISION CAMERA SPECIFICATION

1. High Defination Camera and camera controller unit

The system should be truly Digital HDTV endoscopic video camera (3CCD). The system should have the maximum Resolution of 1920 x 1080 pixels, progressive scan and the consistent use of 16:9 format for Input & Output to guarantee genuine HDTV.

The system should have Special Features:

- Visibly Improved Imaging: CCD sensing chip should optimize image quality & Digital Source Sampling thus maximizing hi-fidelity image transmission.
- Optimizes to Any Size : The system should have integrated Parfocal Optical Zoom (F=14-30

mm, 2X) to enhance the quality of Image Size & cross specialty standardization of the camera system, regardless of the telescope used.
- Digital and Optical Zoom function which can be activated via both from camera head as well as from control unit

Technical Specifications :

Image sensor	3X1/3" CCD-Chip
Pixels	1920 x 1080
AGC	Microprocessor controlled
Lens	Integrated Parfocal Zoom Lens, f=14mm-30mm
Video output	Composite signal to BNC socket
	Y/C signal to S-VHS socket (2 x)
	RGB signal to D-sub socket
	HDTV signal to DV1-D socket
	Digital SDI signal
	DV-For digital recording
Control output	3.5mm stereo jack plug, (Acc 1, Acc 2)
Certified to	IEC 601-1, 601-2-18, CSA 22.2 No. 601, UL 2601 & CE label

The camera should be quoted with the CCU, camera head, connecting cables for printers and recorders, BNC, S-VHS (Y/C), Digital Video output and RGB sync. Connecting cables, Keyboard for character generation.

2. HDTV 16: 9 widescreen colour Monitor
The monitor should have :
- HDTV display in original 16: 10 or 16:9 HDTV format.
- Dripwater protected, dustproof housing.
- LCD /LED crystal display.
- Max. Resolution of 1920X1200 pixels.
- Screen diagonal — 26"HD flat screen.
- Simultaneous display of two images picture-in picture
- Desktop with pedestal

3. Xenon Light Source
- Xenon light source 300 watt with antifog air pump
- It should have color temp. approx. 6000 K
- It should have light continuously light adjustment either manually or Automatically by the camera's video output signal
- It should be supplied with one spare bulb & fiberoptic light cable dia 3.5mm length approx.. 230- 250 cm
- Unit should be according to international safety standard
- Universal jaw assembly to adapt to any make of fibre optic cable

4. High Definition Digital Documentation System (Recorder System)
- Should be real time, MPEG 2 HD, or MPEG 4 HD recording
- Should have video input S-Video. Composite, SDI, HD-SDI and DVI-D
- Should be capable of image capture: Analog (640 x 480), Hi-Res (1024 X 768),and Hi-Def (1280 X 1024)
- Should have Disc Capacity of 250-350GB

- Should support file formats for Images: Bitmap (BMP), JPEG,
- Data can be saved on USB stick
- Should have appropriate CPU and monitor
- Should be supplied with recording activation from sterile area by touch screen or voice or foot switch or camera head.
- Suitable cables should be supplied for optimal function of recorder

5. ORIGINAL MOBILE UNIT TROLLEY consisting of

Imported mobile trolley of same parent company to house monitor, light source, camera unit and recorder unit because of compatibility and ergonomic issues.

- Mobile Universal Video Trolley Including 4 Shelves, 3 of which are fully height adjustable
- Integrated Cable ducts, 4 Antisstatic Smooth-Running Double Casters, 2 of which can be locked Dimensions wxhxd. 675x1500x675 mm approx
- Basic Electrics to connect Upto 8-12 Electrical Units, Mains Voltage, 230v, Consisting Of: 1 Housing, 1 Mains Module, 1 Unit Socket Outlet 1 Main Switch, 6 Unit Mains Cables.
- Transformer Module Mains Voltage 230v, Isolating Transformer, Technical Data: Max.2000va, Max.9A, To Upgrade The Basic Electrics, Dimensions wzhzd 420x145x280.
- Cover Assembly into The Trolley Consisting Of: Lockable Safety Glass Doors and Lockable Rear Panel, Side Panels from the original manufacturer (preferable)
- Drawer Unit For Mobile-Trolley, Wxhxd 525x125x550 approx
- ISO Monitor
- Camera Head Holder For 3D Endocamera
- Articulated arm for 15" LCD Optimised
- LCD Support arm with clamp

Item no. 25

C-arm Image Intensifier

Mobile Image Intensifier C-arm must have capability of very good image resolution with minimum of X-ray dose with following specifications (these are approximate values):

1. X-ray Power Out Put - **2.5 KW**
2. X-ray generator Type- **High Frequency,** self-contained, monoblock with frequency of 40 KHz or more.
3. Fluoro KV Range- **40KV to 110KV**
4. Fluoro mA Range **Normal Mode :** 0.5 mA to 5 mA
   Contrast Mode : 0.5 mA to 7mA
   Note: Higher mA will be preferred.
5. Auto Dose Rate control facility
6. Max Radiography mA must be **60 mA or more**
7. Anode Heat Storage -30 K joules or more
8. Rotating Anode X ray tube with high thermal capacity
9. X-ray tube focal spot size for **small focus-** 0.6 mm and for **large focus-** 1.5 mm
10. **Image Intensifier Size- 9 Inch** with grid of ratio 8:1, f=100 cm
11. Image Memory -50 images or more with USB connectivity (preferred) for pen Drive for Image Transfer.
12. Also must have all image processing features such as 360 degree image rotation, Orientation, Averaging of frames up to 16 frames for image noise reduction.
13. Image Zoom facility at least 3X.

14. Radiation Safety Standard of AERB must be fully complied particularly a compulsory distance of 20 cm has to be maintained between focal spot and the skin for better radiation safety for everybody in OT Room.
15. Unit should have inbuilt Dose meter for measuring dose received by the patient.
16. Laser collimator
17. C-arm Mechanical Specifications
    (a) Focus Screen Distance - 850 mm
    (b) Clearance - 675 mm
    (c) Vertical Movement of "C" motorized- 400 mm
    (d) Horizontal Movement- 200 mm
    (e) Wig wag +1- 12.5 degree
    (f) C-arm Rotation (Angulation) at least +1- 190 degree
    (g) Arc Orbital Movement- + 90 degree and -35 degree or more
18. CCD TV Camera with resolution of at least 752x 582 pixels
19. Two 15 inch Medical Grade Monitors mounted on a trolley
20. Servo voltage stabilizer mounted on a trolley
21. Power Supply requirement: Single Phase 50 Hz , 190V- 240 V, (3.5 KW)
22. Also companies have to give demonstration of quoted C-arm at some of user site at Delhi. Those companies will be technically shortlisted who pass demonstration. Quality will be assessed for:
    1. Smooth and easy movement of C-arm positioning, Good Locking systems.
    2. High Quality paint on C-arm (For better cleaning of blood and other stains and protection from Rust due to water)
    3. Fluoroscopy Image quality (Contrast Distortion at monitor edge, Size and shape of Anatomy without distortion)
    4. Radiation safety features such as Distance of 20 Cms has to be maintained between focal spot and the skin for better radiation safety for everybody in OT Room, and other radiation minimization features.

Item no. 26

Plasma sterilizer

1. Should provide simple and fast sterilization of medical devices at low temperature using Hydrogen Peroxide Plasma sterilization technology
2. Should be suitable for sterilization of metal & nonmetal medical devices like flexible endoscopes, rigid endoscopes, metal & plastic lumen items heat & moisture sensitive instruments etc.
3. Should be able to sterilize lumens of internal diameter 1mm or above, steel lumens up to 50 cm length and plastic lumens up to 200cm length without use of any additional accessory/consumable like boosters/adapters
4. Sterilizer should be able to destroy Prions in compliance with CDC guidelines of 2008.
5. Usable volume of chamber should be at least 100-120 liters.
6. The chamber should be rectangular shaped.
7. Should have removable shelf for keeping load
8. Sterilization temperature should not be more than 50 ± 5 deg C.
9. Should have selectable pre-programmed sterilization cycles for different types/ quantity of load with max. sterilization time not more than 50 min.(+/- 10 min)
10. Sterilant should be in a cassette with hydrogen peroxide concentration >55% with leak proof

indicator (US FDA approved) for minimum 4 cycles per cassette /bottle or more

11. Should use minimum quantity of sterilant each cycle of sterilization to ensure safety of instruments
12. Should detect excess moisture thus eliminating chances of contamination due to residual bio burden
13. Sterilization Claims should be validated using FDA/CE approved Biological indicators with 24 hour read out time
14. Should be environment friendly and have no toxic by-products or harmful residues.
15. Should have touch screen display for controlling & monitoring the sterilization process.
16. Safety Features-Visual and Audible Alarms for abnormal deviations and end of Cycle with color coded alarms for easy identification from distance
17. Should have storage facility for sterilization cycle records for recall & printing.
18. Should have inbuilt thermal printer for printing cycle details.
19. Should be easy to install without any civil / plumbing work and should be mobile on wheels for easy movements.
20. Should be approved by FDA or CE &EPA.
21. Should be supplied with following
    a. Instrument trays/ appliance box and matching instruments tray mats - 02 nos rotary sealing machine with LCD display - 01 No.
    b. Biological Indicator Incubator- 01. No.
    c. Sterilizer should be supplied complete with accessories like validation kit, endoscope holders and endoscope bars, etc.
22. Should be supplied with following consumables sufficient for at least 1000 (average four cycles per day for 250 working days in a year with good shelf life of minimum 12 months) sterilization cycles.
    a. Sterilant bottle / Cassette for 1000 cycles.
    b. Chemical Indicator Labels (for putting outside pack)-= 10000 labels(adhesive)
    c. Chemical Indicator Strip (for putting inside pack) = 20000 strips
    d. Biological Indicator (Validation in 24hrs) Vials = 1000 nos.
    e. Tyvek Pouch in Rolls size (4"x100ft) (100mmx40m)
    f. Tyvek Pouch in Rolls size 14" xl0Oft (300mmx40m)
    g. Polypropylene Sterilization Wrap Sheets (non-woven cloth) Size 120cmx120cm = 2000 sheets
    h. Printer paper rolls = 20 nos.
    i. Printer Ink cartridge = 10 nos.
    j. Boosters and endoscope adaptors- 2 each
23. The bidder should demonstrate the equipment at the hospital or at a user site.
24. Power input to be 220-240V AC 50Hz fitted with Indian Plug
25. Should be able to run on three phase 20A/415V.
26. Voltage stabilizer of appropriate rating meeting ISI specifications
27. Should have service centre in NCR Delhi with ready availability of spares within 48 hours.
28. Training to the OT staff has to be provided on site for satisfactory functioning of the sterilizer.
29. Should be installable without the need for extra civil work.
30. The supplier must furnish satisfactory service report for about three years or more from at least

three users preferably Govt. institutions.

31. The offer should be supported with Printed Catalogue of the firm for main equipment and each accessory and consumables confirming it certification on quality.
32. The firm should quote for price of all consumables separately and that should be valid for next five years

Item no. 27

3.0 Tesla MRI System	
(Replacement for 1.5 Tesla MR installed in 2001)	
Sr. no.	**Technical specifications**
	Whole Body 3.0 Tesla Magnetic Resonance Imaging System optimized for all body applications, such as musculoskeletal, vascular, pediatric, hepatobiliary, abdominal, cardiac and neurological applications with super conducting magnet, high performance gradients and digital Radio Frequency System. The manufacturer/ bidder must quote the latest 'state of the art' 3 Tesla MR system as per the specifications below or better. Please mention the year of launch of the quoted model. the manufacturer will guarantee the latest available model at the time of delivery. The detailed specification that follows shall be understood to be minimum requirement.
1	**Magnet**
a	3.0 T active shielded super conductive magnet should be short and non-claustrophobic.
b	It should have at least 70 cm patient bore with flared opening.
c	Magnet length should be less than 200cm.
d	Homogeneity of the magnet should be better than 1.5 ppm at 40 cms (guaranteed homogeneity)
e	The magnet should be well ventilated and with in-bore illumination with built in 2 way intercom for communication with patient.
f	It should have a built in cryo-cooler such that helium consumption is minimized and does not exceed 0.05 litre/hour.
g	Specify hardware and software for acoustic noise reduction.
h	Active shielding/ Fringe field - quote values for 5 Gauss and 1 Gauss line.
i	External shielding - external interference shield (sufficient to house the magnet, anaesthesia and physiologic monitors) should be provided.
2	**Shim System**
a	High performance, highly stable shim system with global and localized manual and automated shimming including 3D shimming for high homogeneity magnetic field for complete imaging, volume imaging & CSI and spectroscopy.

b	Auto shim should be available to shim the magnet with patient in position
3	**Gradient System**
a	Actively shielded Gradient system in X, Y, Z planes
b	The gradient should be actively shielded with each axis having independently a slew rate of at least 200 T/m/s and a peak amplitude of 40mT/m.
c	The system should have efficient and adequate Eddy current compensation
d	Effective cooling system for gradient coil and power supply
4	**RF System**
a	A fully digital RF system capable of Multi Transmission with 2 amplifiers of at least 15kW each or one amplifier of 30 kW, to reduce magnetic susceptibility affects.
b	It should also have at least 32 independent RF receiver channels "acquisition" with each having bandwidth of 1 MHz or more along with necessary hardware to support quadrature array / Matrix coils.
c	It should support Parallel acquisition techniques with a factor of 12 or more. Highest available PAT factor to be quoted.
d	Should allow remote selection of coils and or coil elements.
e	The operating frequency should cover 1H and 31P nucleus (for multinuclear spectroscopy 1H and 31P)
5	**Patient Table**
a)	Patient table should be fully motorized and dockable with computer controlled table movements in vertical and horizontal directions. (Specify the patient load capacity)
b)	A CCTV system with LCD display to observe the patient should be provided
c)	Emergency manual traction of the subject from the magnet.
d)	Table technology - Bolus chasing with automatic/ continuous moving table should be offered and should be available with fluoro triggered MR angiography for manual and fast switchover in less than 1 sec for CE-MRA. Latest table technology available with the vendor (globally) should be offered (eg. TIM-CT, etc.)
6	**Computer System/Image Processor Operator Console**
a)	The main Host computer should have a 19 inches or more high resolution LCD TFT color monitor with 1024 x 1024 matrix display. The system should have image storage capacity of 100 GB for at least 2,00,000 images in 256 x 256 matrix.
b)	The Image reconstruction speed should be at least 1300 images/second or more for full FOV 256 matrix.

c)	The main console should have facility for music system for patient in the magnet room. The system should have DVD / CD/ Flash drive archiving facility. Supply 1000 DVD along with the system. The system should be provided with auto DVD writer.
d)	Patient monitoring devices for ECG, respiratory rate, pulse rate, O2 saturation at console.
7	**Measurement System**
a)	Largest Field of View should be at least 48 cm in all three axis.Specify the highest FOV and minimum FOV.
b)	The measurement matrix should be from 128x128 to 1024x1024. Highest matrix available to be quoted.
c)	Minimum 2D slice thickness mm should be equal to or less than 0.5
d)	Minimum 3D slice thickness mm should be equal to or less than 0.1
8	**Coil System**
	The main body coil integrated to the magnet must be Quadrature/CP of the latest technology. In addition to the inbuilt body coil, following coils should be quoted for which the number of channels and number of elements for each coil should be maximum that the vendor has in their product list. All coils (other than coils for exclusive spectroscopy, like surface coils) should be compatible for parallel acquisitions.
i	Multichannel Head coil with at least 16 channels for routine brain imaging.
ii	Multichannel Head coil with 32 channels or more for EPI/DTI application.
iii	Neuro-vascular Coil with 20 or more channels or Head / Neck Coil combined, capable of high resolution neuro-vascular imaging or combination of head & neck coil for similar coverage.
iv	Spine Array/Matrix Coils for thoracic and lumbar spine imaging with at least 32 channels acquisition per exam
v	Body Array/Matrix coil with at least 40 cm z axis coverage for imaging of abdomen, with at least 32 channels Acquisition for body part angiograms and heart. In case one coil cannot provide this coverage then multiple coils should be offered. (The best available body coil with the vendor must be supplied)
vi	Dedicated surface coil for peripheral angiography application of atleast 32 channels
vii	Bilateral Breast Coil with at least 4 channels with fully functional spectroscopy and complete Biopsy attachment
viii	Dedicated Shoulder Coil- at least 8 channels
ix	Dedicated Knee Coil - at least 8 channels
x	Dedicated Wrist Coil - 8 channels
xi	Loop Flex Coil - large & small. (atleast 2 to be provided)
xii	Small flex coil for pediatric applications.
xiii	Endo-rectal coil (10 nos) price of each to be quoted

xiv	Carotid coil
xv	Eye ear/TMJ circular coil
xvi	Dedicated Ankle Coil with 8 channels or more
xvii	Dedicated Cardiac Coil
	TOTAL COILS - Please specify the nos. quoted
	For Storage of all coils a caddy to be provided.
	The coil system should permit coverage of 200cm
	The system should continuously monitor the RF coils used during scanning to detect failure modes. RF coils should not require either set up time or coil tuning; Multi coil connection for up to 2 or more coils simultaneous scanning without patient repositioning. i.e. like 4GTIM/GEM/D stream coil combination should be quoted as standard.
9	**Application Package**
	Data acquisition:
i	The system should be capable of 2D and 3D acquisitions in conventional, fast and ultra-fast spin echo and gradient echo modes so that real-time online images can be observed if needed. All the sequences that are available with the vendor at the time of quote/delivery should be provided as per their manual.
ii	2D multi-slice imaging should be possible in all planes (axial, sagittal, coronal, oblique and double oblique)
iii	Up to 1024 x 1024 matrix acquisitions preferred for all applications
iv	Half fourier or other techniques to reduce scan acquisition time while maintaining adequate SNR
v	3D volume, multiple contiguous slabs, multiple interleaved and multiple overlapping slabs
vi	Slice thickness in 2D and partition in 3D to be freely selectable
vii	Dynamic acquisition (serial imaging) with capability to initiate scan sequences either from the magnet panel or from the console
viii	Dynamic acquisition: number of repeat scans with delay time either identical time interval or selectable
ix	Auto slice positioning from the localizer images
x	Maximum-off center positioning both anterior-posterior and lateral direction and should be selectable
xi	Gating: physiological signals like ECG, pulse, respiratory
xii	External signal triggering (interface for triggering input pulse from external source). The provision should be available at the console also (for fMRI, EEG, etc)
xiii	Simultaneous acquisition, processing and display of image data in 2D multi-slice mode.
xiv	Selection of voxels from oblique slices should be possible while doing spectroscopy.
xv	Artifact reduction/ imaging enhancement/ image filtering/ image subtraction/ addition/ multiplication/ division techniques:

xvi	Flow: 1st and 2nd order flow artifact compensation
xvii	Presentation slabs: a number of relocatable saturation bands to be placed either inside or outside the region of interest
xviii	Graphic prescription
xix	Fat saturation techniques: frequency selective RF pulses to suppress fat signals in the measured image FOV. ROI selective (regional) fat suppression should also be given.
xx	Magnetization transfer saturation: Off resonance RF pulses to suppress signals from stationary tissue in FOV
xxi	Phase contrast capability in 2D and 3D mode: Image intensity correction
xxii	Breath hold acquisition
xxiii	EPI mode
xxiv	DTI with MDDW or equivalent with a minimum of 12 and selectable upto 64/256 direction encoding
xxv	Data acquisition in all three standard planes (axial, sagittal and coronal) and oblique and double oblique planes or more oblique planes
xxvi	Higher matrix acquisition capability in single shot EPI. Acquisition time, TR, TE and slice thickness should be clearly mentioned and supported by data sheet reference.
xxvii	The vendor should offer multi coil acquisition in order to optimize throughput increase and increased effective FOV. Individual acquisition elements of every coil should be mentioned.
	Imaging pulse sequences:
i	All standard and special pulse sequences available at the time of quote/delivery should be offered and quoted in the bid. Fat supression for high quality images both inversion recovery and Dixon method/ IDEAL/ 3D Dual Echo/ m-Dixen. The system should acquire motion artifact free images in T2 studies of the brain in restless patients (Propeller, Multivane, Blade, etc.). Dynamic study for pre and post contrast scans and time intensity studies.
ii	The system should be capable of selecting TR and TEs as per requirement in majority of the pulse sequences.
iii	Spin echo (SE): multi-slice single echo, multi-slice multi-echo (8 echo or more), SE with symmetrical and asymmetrical echo intervals and fast spin echo. MT-SE imaging sequence.
iv	Inversion recovery (IR): including short T1 modified IRSE, FLAIR, DIR (Double inversion recovery).
v	Gradient echo (GE): with transverse gradient/ RF spoiling and transverse gradient re-phasing, e.g., GRASE or equivalent etc. 3D gradient echo with shortest TR and TE, free choice of angle selection, while maintaining SNR
vi	Fast sequences
vii	Fast spin echo and GE sequences in 2D and 3D mode with T1,T2 and PD contrast capable of acquiring maximum number of slices with a given TR at minimum TE, echo train should be at least 256 or more in fast spin echo mode

viii	Half fourier acquisition capabilities should be available with/without diffusion gradients and in combination with fast spin echo
ix	Fast inversion recovery with spin echo
x	Fast gradient spin echo IR multi-slice multi-echo mode with maximum ETL. Sequences should incorporate RF focussing to acquire ultra-fast gradient spin echo
xi	Fast gradient echo sequences should incorporate RF spoiling and other technique to acquire images in ultra-fast 2D and 3D modes, gradient echo with ETL of 255 or more.
xii	Fat and water suppressed imaging sequences
xiii	EPI optimized sequences (with and without fat supression) with ETL of 255 or more.
xiv	For T1, T2, PD imaging, perfusion, regular diffusion values (at least 5b, 3 directions) EPI-FLAIR, EPI-IR, EPI-FLAIR diffusion tensor, EPI-MT-FLAIR, tensor diffusion (atleast 16 b values in minimum 32 directions) and diffusion studies. Suitable artifact/ fat suppression techniques to be incorporated in the sequence to have optimum image quality.
xv	There should be capability of calculating ADC map(isotropic and anisotropy from the regular diffusion and tensor data)
xvi	Optimized sequence package for special applications.
	Special application packages:
i	The vendor must provide their specialized and optimized imaging sequences with post-processing packages for (i) neuro, (ii) body, (iii) oncology, (iv) cardiac, (v)angio, (vi) ortho, (vii) pediatric and other applications. For example, this includes packages like optional/ premium/ advanced/ application suite/ etc.
	Please give details of licences for acquisition post-processing and for special packages quoted for the following applications
a)	**Neuro Applications**
1	Functional MRI accessories and post-processing:
i	Functional Imaging with package for BOLD Imaging and spectroscopic imaging and processing package capable of real-time processing and display of color overlay (in real time) using 32-channel head coil being supplied with the system.
ii	Complete fMRI solution including audio-visual projection (3D capable) system
iii	The audio-video projection system should have the capabilty to project 3D images/ movies to the subject, and should be compatible with the 32 channel head coil, and should include all attachments that may be required for complete integration
iv	The system should be integrated with stimulus presentation/ paradigm generator along with licensed software (like superlab, eprime, presentation, etc.) which is capable of presenting audio-visual, audio, video (multiple formats), etc.

v	The paradigm presentation should be synchronised with the scanner (for starting and ending along with measurements)
vi	Integration and provision near the console for external trigger (of the sequence) for synchronising fMRI acquisition with paradigm
vii	Provision of serial ports and DB15 ports in the penetration panel for routing SVGA/EEG connections (one each for customer use)
	fMRI console should have all relevant functions to develop and integrate the paradigm, to deliver the paradigm and also, to monitor the task being presented. The volume control option should also be available with the operator (at a convenient place at the console)
viii	Post-processing work station / server with post-processing software and hardware associated, with licencesfor processing the BOLD data (with required licensed operating platform required like MATLAB, IDL, etc.)
ix	The system should have the option of integrating binocular eye-tracker, and should give good quality MR compatible eye-trackers (binocular), along with eye-tracking software at the console (on a separate PC/laptop)
x	The entire fMRI hardware package should be from a single vendor for complete integrated solution. Please specify the vendor.
2	Arterial Spin labeling.
3	Perfusion imaging of brain with software for rBV, CBV etc analysis.
4	Susceptibility weighted imaging I SWANI Venus BOLD.
5	Multi Direction DTI with minimum of 32 directions. (Complete package including DTI quantification and tractography software). Prospective motion correction enabled software preferred. Spinal tractography should also be possible.
6	T2 Relaxometry and volumetric analysis for Hippocampus
7	3D-T2 weighted Turbo Spin for volumetric acquisition reconstructed in any plane e.g. for lumbar spine and for nerve root analysis
8	High resolution imaging for inner ear. Please specify sequences eg. CISS or equivalent
9	The system should have facility for flow quantification of CSF aqueduct, spinal canal, vessel flow. Both retrospective and prospective gating should be possible.
10	Whole spine imaging with fusion software.
11	Real time Brain Wave, Pre Acquisition / post processing or Inline BOLD or BOLD Specialist.
12	Sequences such as Double Inversion recovery for "Plaque Imaging' in Carotids to be provided.
13	MR ventriculography, cisternography, myelography
b)	**Cardiac applications:**

1	Advanced Cardiac Applications: VCG gating, Morphology/wall motion; Cine perfusion imaging; Myocardial viability imaging; Arrhythmia rejection techniques, Advanced Cardiac Ventricular Measurement Analysis; Cine Cardiac Tagging Techniques; Coronary artery techniques; real time interactive imaging, 2D/3D fast field echo/balanced/steady state techniques. Myocardial tagging, STIR for cardiac use, stress perfusion, 3D acquisition of whole heart in one breath hold. Complete cardiac evaluation package to be included on the workstation, besides the main console.
2	T1, T2, T2 quantification. Tools for evaluation in real time with automated guidance
c)	**Musculoskeletal:**
1	High resolution imaging for cartilage and musculoskeletal imaging. Parametric MAP be available. dGEMERIC or equivalent, radial imaging for menisci and labrum
2	The system should have software package for evaluation of bone marrow.
3	Whole body screening imaging studies for metastasis.
d)	**Hepatobiliary and abdominal system.**
1	High resolution Abdominal and Liver imaging in breath hold and free breathing modes with respiratory triggered volume acquisitions with navigation, liver iron quantification and liver fat quantification software, and spectroscopy
2	The system should have basic and advanced MRCP packages including free breathing and 3D techniques.
e)	**Vascular Imaging**
1	MR angio Imaging Should have 2D/3D TOF, 2D/3D Phase contrast (with and without gating and magnetization transfer saturation), black blood angiography for cerebral, pulmonary, abdominal and peripheral vessels and TONE, ceMRA, Facilities for high temporal and high resolution 4D angio imaging for time resolved vascular imaging with imaging frame of 40 frames/sec or more.
2	Bolus chasing with automatic and manual triggering from fluoroscopy mode to 3D acquisition mode with moving table facility for whole body application. Specify table movement. Inline subtraction should be available.
3	"Non contrast enhanced" peripheral angiography for arterial flow with Native/ Trance/inhance sequences.
4	Time resolved angiography with contrast kinetics like 4D TRACKS/ 4D BLISS/ KTblast or equivalent.
5	Perfusion study in organ systems like kidney, brain, heart etc. with T1 perfusion with permeability maps, and quantification of rCBF/ rCBV, MTT, etc, with color maps.
f)	**Breast Imaging:**
	Advance package including diffusion, spectroscopy and perfusion with time intensity curve.
g)	**Diffusion Weighted Imaging** with at least b value of 7000 or more. Whole body diffusion weighted imaging with background suppression

h)	**Spectroscopy:**
	The system should have the Hydrogen, Single Voxel spectroscopy, Multivoxel, Multislice & Multi-angle 2D, 3D Spectroscopy and Chemical Shift imaging in 2D / 3D. The complete processing / Post processing software including color metabolite maps should be available on main console and the workstation and each of the five clients. Complete prostate, breast, liver spectroscopy hardware and applications should be provided.
	Spectroscopy phantom for important short echo time neurometabolites, breast and prostate
	Water and lipid suppression in automated sequences
i)	**Prostrate Imaging** with Parametric cards (Ktrans, Kep, Ve, Vp)
j)	**Productivity improvement Techniques** with availability of "Previous Scans" such as Smart Exam/ Auto Align /Ready for Brain, breast, joints including shoulder, hip, knee etc. to be provided. Integrated exam planning should be possible. All filming, viewing and export options should be possible.
10	**Optional software and hardware (price to be mentioned separately)**
i	Multi Nuclear Spectroscopy: Facility of P31 Imaging & Spectroscopy. Double tuned surface coil for P31 and H1 Imaging and spectroscopy for liver, calf muscle, heart, etc.
ii	Double tuned head coil fo 31P and 1H spectroscopy
iii	MR elastography.
iv	MRI- HIFU complete system with application for fibroid, prostate, bone etc.
v	"Silent MRI" sequence package
11	**Additional workstation:**
	Client server architecture-server with 5 concurrent clients (Dexus, Intelligence Portal, Syngo.via, etc. or higher) capable of rendering 40000 images at peak performance. Workstation hardware should be industry standards, and should be the latest with the vendors, as per their globally launched product catalogue.
	Please quote separate licences for all the processing quoted.
a)	A Server workstation with preferably the same user interface as of main console is required with the availability of all necessary software including.
i.	Basic post-processing software including MIP, MPR, surface reconstruction and volume rendering technique, Image fusion , 3D evaluation on all five concurrent clients.
ii.	Advanced post-processing offered applications including FMRI, perfusion quantification, advanced diffusion and DTI, advanced cardiac evaluation(EF, Calculation, Wall motions, analysis) including perfusion analysis, processing of 2D/3D CSI data, with color metabolite mapping, quantification of CSF flow data, vascular analysis package **on at least two clients** concurrently.

iii.	The system should support the DICOM print service class as a service class user (SCU)
iv.	Workstations support the DICOM query and Retrieve SCU
v.	Workstation should retrieve MR spectroscopy images.
b)	Each Client to have at least 19 inch LCD TFT 2MB pixel color monitor, with hard disk of at least 120 GB for at least 100,000 image storage in 256 matrix, and 4 GB RAM capacity- Total five Clients Each of the client should enable printing in laser film camera and color printers. Total 5 client hardware and software to be provided.
c)	The offered System is to be networked with the existing "Department Network" including PACS and appropriate anti-virus protection to be provided by the Vendor.
	The vendor should provide picture storage and archival system, to store and retrieve MR images.
d)	The system should have DICOM 3.0 compliant interface and enabled for networking connectivity to Linux/ Windows based servers/ clients with patient ID labelling and integration to generic hospital information system/ PACS
e)	To be quoted optionally, facility to view images/reports on mobile services (through VPN) and web clients. 2D/3D image viewing with basic image manipulation tools to be quoted.
	The package should permit 5 concurrent users to view images.
	One broadband connection with Static IP(2MBPS) and one server to be provided for VPN.
	The monthly recurring expense for broadband / VPN to be provided by Vendor. The hardware for 5 clients to be provided. **Price to be quoted separately.**
f)	**To be quoted seperately**, three RIS software / licences for registration, DICOM worklist, integrated with offered PACS, with registration, sticker printing, scheduling and appointment modules, and corresponding hardware for RIS also should be included.
	Module for scheduling and imaging
	Modality, exam date and time will be fixed during scheduling of the exam
	Appointment letter with patient instructions will be printed from RIS and given to patient for OPD patients, ward patients, critical patients and VVIPs
	DWL licences to plan, perform and document examinations
	Statistics of exams, etc.
g)	Comprehensive Radiology reporting software having normal reports of MRI and CT of various body parts.
i	It should be possible to edit the reports and generate customized reporting formats
ii	It should be able to assign a unique ID for each report
iii.	It should be possible to search for the reports upto at least one year by entering patient details/ date of examination, etc.
iv.	It should be possible to sort out the reports on daywise basis for purpose of archiving them on CD/DVD

12	**Safety Features**
	The System should have following safety features
a)	The magnet system should include an Emergency Ramp Down unit (ERDU) for fast reduction of the magnetic field with Ramp Down time below 3 minutes.
b)	The magnet should have quench bands that contain the fringe fields to a specified value in the event of a magnet quench
c)	Real time SAR calculation should be performed by software to ensure that RF power levels comply with regulatory guidelines and are displayed on each image
d)	The system shall have manual override of the motor drive for quick removal of the patients from the magnet bore
e)	Temperature sensor (built in) for magnet refrigeration efficiency must be provided
13	**Accessories**
a)	DICOM compatible Dry Chemistry laser camera with integrated processor for filming from main console & workstation. The camera should be capable of printing on films of 14" x 17", 11" x 14" and 10" x 8" sizes in a resolution of 500 or more dpi. It should be possible to connect other imaging modalities to the printer. 1000 compatible films to be provided.
b)	A color laser printer for printing high-resolution color-coded 3D images and protocols on plain paper in 1200 dpi resolution or more than 20 ppm or alternatively a dedicated color printer for medical images
c)	The UPS system should be provided for complete MRI unit with Chiller and emergency lights with at least 30 minute back up, preferably 150 kVA or more (specify kVA). An emergency door or hatch should be provided in RF cabin.
d)	RF Cabin: The system should be supplied with the imported RF cabin with RF room shielding, RF Door screen, and interiors for the same should be carried out suitably.
e)	Dual Head MRI-Compatible Pressure Injector with 500 sets of syringes (Two syringes & connecting tubing per set). It should be compatible with 10, 15, 20 & 30 ml pre-filled contrast syringes and 50 ml syringes for both saline and contrast.
f)	Non-magnetic I/V stand
g)	Water Chiller for Cold Head and Gradients
h)	Two Non-ferromagnetic MR compatible patient transfer trollies of international make should be provided. (in case of dockable table, one extra trolley to be supplied)
i)	Fire Fighting System, Detectors and 6 Fire Extinguishers (MR Compatible)
j)	Hand held metal detectors - 2 Nos
k)	Closed circuit CCD camera for patient observation.
l)	Phantoms for image quality audits

m)	Defibrillator Biphasic with ECG recording with Adult and Paediatric paddles
n)	MR Compatible Infusion Pump.
o)	Patient positioning accessories with hand held alarrn & look-out mirror.
p)	MR Compatible Transport Ventilator.
q)	Two laptops with 512GB storage, 2 GB RAM & Windows 8 operating system (of reputed make) with laser Printer, UPS & dictaphone.
r)	SPECIFICATION FOR MRI COMPATIBLE ANAESTHESIA MACHINE & MRI COMPATIBLE MONITOR
A)	**MRI COMPATIBLE ANAESTHESIA MACHINE SPECIFICATIONS:**
	Should be MRI compatible at 3T, antistatic, heavy frame & base with good quality castors with front brakes, with following features :
i.	Three gas model viz Oxygen, Nitrous oxide and Air.
ii	Should be compact, ergonomic, easy to use and easy to maintain.
iii.	Should have separate fresh gas outlet for use in open circuit.
iv.	Machine should have flow meters for Oxygen, Nitrous oxide and air. Emergency Oxygen flush should be available. There should be facility to select oxygen-air or oxygen-nitrous oxide with the help of a separate switch or knob.
v.	Dual flow sensing capability at inhalation and exhalation ports.
vi.	Should have paramagnetic/ galvanic cell oxygen sensors. In case of galvanic cell sensors, the firm should supply free sensors for the entire warranty period of 5 years. In case of Paramagnetic sensors, the firm shall ensure that there is no down time during repair of these sensors (if necessary) and provide a standby alternative.
vii.	Shall have back-up Oxygen Control which provides an independent fresh gas source and flow meter control in case of failure.
viii.	Pressure regulators shall be of modular design.
ix.	Should have oxygen fail safe device & an auxiliary built in oxygen flow meter.
x.	Electronic or Mechanical Hypoxic Guard to ensure minimum 25% Oxygen across all O2–N2O mixtures and Oxygen Failure Warning
	Vaporizers:
xi.	Facility of mounting minimum two Vaporizers ,latest technology , key filler, selectatec type, tool free installation ,meaning any vaporizer of our choice can be mounted at will with interlocking facility.It should be preferably of the same make as that of machine.
xii	Temperature ,pressure and flow compensated with high accuracy of delivered concentration of volatile anesthetic agent. Should be maintenance free.
xiii	Two Vaporizers should be supplied (Isoflurane ,Sevoflurane).
	Ventilators:
xiv.	The Machine should have an Integrated Anesthesia Ventilator System, facility to vary respiratory parameters and should be able to ventilate adult and Pediatric patients including infants.

xv	Ventilator should have Controlled ,Manual, Spontaneous modes and provision for PEEP.
xvi	Tidal volume (inspired and expired) respiratory rate ,1 :E ratio, minute volume Airway pressure & FiO2 should be continuously displayed..
xvii	Should have Tidal volume and fresh gas compensation mechanism.
xviii	Audio-visual alarms for high and low settings of Pressure, volume and disconnection should be present.
xix	Tidal Volume (VT) 20-1500ml (Volume Control) ,Rate atleast 4-80 BPM.
xx	Inspiratory / Expiratory ratio (I :E) 2:1 to 1:6 &Peak Flow -100 to 120 L/min.
xxi	Ventilator should have at least 30min rechargeable battery backup for ventilator.
xxii	Machine should have an integrated breathing circuit with circle absorber of good quality,easy to clean, autoclavable , fewer parts to reduce leaks.
xxiii	Machine should have mounting capability of One O2 and one N2O pin-indexed cylinder
xxiv	Adult autoclavable (2 sets) breathing circuits & one paediatric circuit to be provided.
xxv	The Machine should be equipped with AGSS.
B)	**MRI COMPATIBLE MONITOR**
	Specifications for MRI compatibility :
i	Monitor should be equipped with MRI shielding and set to Remote Communication Mode.
ii	Should be MRI safe at 5,000 Gauss , 3.0 Tesla and 4W/Kg SAR.
iii.	System should include fiber–optic SPO2 finger sensor, MRI compatible ECG Patient Leads and Electrodes, NIBP cuffs, hoses and etCO2 sampling kit and temperature probe.
	General Specifications for Monitor :
i	The Monitor should have adult and neonatal application and should be user friendly.
ii	It should be capable of monitoring ECG, non-invasive blood pressure ,oxygen saturation (SpO2) ,ETCO2 and temperature.
iii.	It should have an internal battery which should last for 30-40 min.
iv.	It should be operational at wide temperature (10 degree Celsius – 40 degree Celsius) and humidity (20% to 90%).
v	It should have a facility of 24hours data storage of trended parameters and trend graph of 1,2,3,6,12 or 24 hours display format.
vi	Should have a facility to deactivate all the alarms if necessary.
	ECG Monitoring: Essential Specification:
i	Available leads : I,II,III,V,AVR,AVL,AVF with facility for recording 12 lead ECG.
ii	Should display one or all the selected leads at a time.
iii.	Accuracy of +- 5% of the rate.
iv.	Monitor Mode : Digital Signal Processing (DSP).

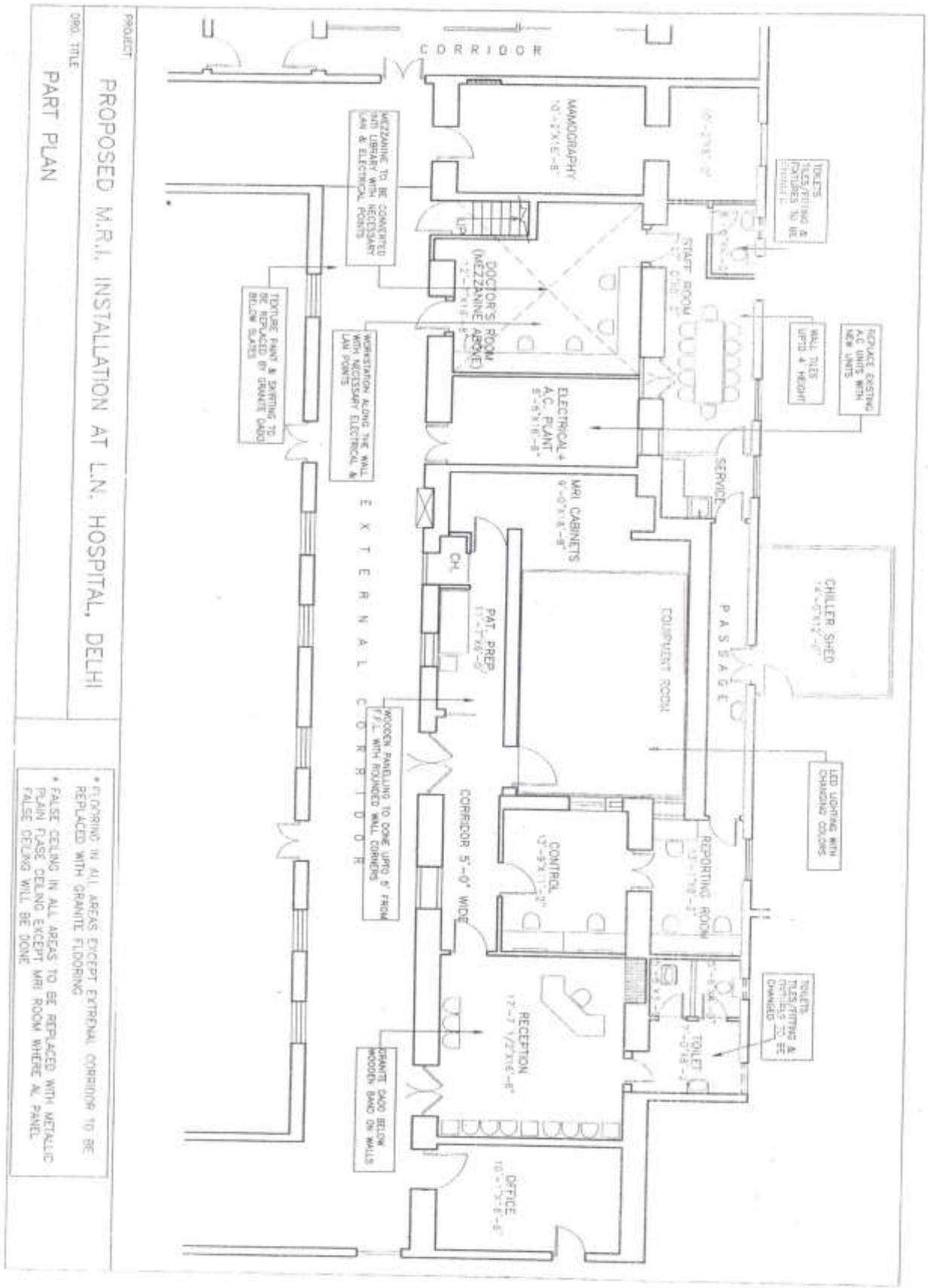
v	T-Wave suppression for high field MRI.
vi	Should have arrhythmia monitoring facility.
vii	Should have user selectable alarms.
viii.	Heart rate measuring ranges 15-300 beats/min.
	Pulse Oximeter (SPO2):
i	Should provide a digital value of the arterial oxygen saturation as well as diagnostic plethysmographic pulse waveform.
ii	Measurement range : 0% to100%.
iii.	User Selectable upper and lower alarm limits.
iv.	Probes with finger and ear sensors for adult ,paediatric and neonatal use.
v	Should be sensitive and function accurately even at low perfusion states of low blood pressure or hypothermic conditions.
	ETCO2 Monitoring:
i	Should have side stream Carbon di-oxide module and display both graphically and numerically.
ii	Single beam ,non-dispersive infrared (NDIR) absorption, radiometric measurement, no moving parts.
iii.	Initialization time less than 10 seconds, full specifications within 1-2minutes.
iv.	Carbon di-oxide range should be 0 to152 mm Hg barometric pressure supplied by module itself.
v	Should be able to detect breath rate in the range of 2-150 BPM.
vi	Respiratory rate accuracy should be $\pm$ 1 breath.
vii	Barometric Pressure auto compensated from 400mm Hg to 850mm Hg.Operator selectable O2, N2O,HE and Agent Compensation.
viii.	No routine user calibration required. An offset calibration should run automatically when the ambient temperature is not stable.
ix.	Sampling line should have both nasal sampling line and extension sampling line.
x	Warm up time 10seconds.
	Temperature Monitoring :
i	Measuring range: 5 to 50 degree Celsius.
ii	Accuracy + 0.1 degree Celsius.
iii.	User Selectable upper and lower limit of alarm.
iv.	Core and skin probes.
	Non-Invasive Blood Pressure (NIBP) monitoring:
i	Should automatically sense infant / adult cuffs and set appropriate inflation pressure and safety limits.
ii	Operating Modes : Automatic ,Manual ,Stat.
iii.	Accessories ,NIBP cuff :
1	Adult for thigh and arm.
2	Paediatric
3	Neonatal

14	**Guarantee**
i	Principals and Indian counterpart. The Principals should be responsible for any lacuna or deficit in service or supply.
ii	All items in the supply order should be supplied during the time of installation, No exceptions will be allowed .Items under Research .Agreement should be finalized well in advance (after receipt of supply order). So that there is no delay in delivery of software or coil or any other accessories.
iii	Software upgrades (where hardware upgrades are not required)like new pulse sequence, new application package e.t.c. should be provided within one month after release worldwide (any country,viz. north America/ Europe/Germany etc).In case, the same is not provided in time,the parent company should undertake the responsibilty to implement the same.This is to make sure that the machine stays updated with similar products for atleast 5years.
	WARRANTY PERIOD
i	The equipment should have 60months warranty from the date of handing over the fully functional unit of all coils and the accessories supplied(such as UPS,AC,Generator, etc) to the hospital against manufacturing defects of material and workmanship. The Helium Supply and cold head repairs (including replacement. If needed) should be included in the warranty period. The vendor should take care of the day-to- day running of the UPS, AC generator, etc. on 24 hr basis with manpower. The vendor should provide the cost of manpower separately for the 5+5 year period.
ii	Even during the warranty period , the desired uptime of 95% of 365 days (24 hrs basis) will be ensured. In case the down time exceed the 5%limit, extension of the warranty period will be twice the excess downtime period
iii	Note any Liquid Helium due to quenching or due to any other causes during the warranty period shall be borne by the firm.
iv	If a particular coil is not working for more than 3 days and due to which patient work suffers, the firm will, be asked to pay penalty of half-a- day beyond 3 days for each day that it is not working.
	POST GAURANTEE ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT (CMC)
i	The post –warranty (after 5 years) CMC should be comprehensive and should include helium and cold head (repair and/ or replacement) + labour + spares for the complete system which includes all the accessories supplied such as UPS, Generator, AC, etc. with 24 hrs. manpower for operation (including all consumables like batteries for UPS, diesel for Generator, etc.) and maintenance for another 5 years. The vendor should provide the cost of manpower separately. This CMC should be quoted in Indian Rupees. **The price of post warranty 5 years CMC shall be taken for price comparison.**
ii	The desired up-time during post-warranty CMC is 95% of 365 days (24 hr basis) along with the penalty clause that in case exceeds the 5 % limit, extension of the post-warranty CMC period by the twice the excess down-time period.
iii	The insurance should be done by the bidder to cover the losses, if any, due to force major conditions. The rate of post-warranty comprehensive CMC should be offered for at least five years by the bidder and be offered in Indian Rupees only.

iv	Note any liquid helium due to quenching or due to any other causes during the CMC period shall be borne by the firm.
v	If a particular coil is not working for more than 3 days and due to which patient work suffers, the firm will be asked to pay the penalty of half-a-day beyond 3 days for each day that it is not working.
vi	All local items should be quoted in Indian Rupees. Other items should be quoted in US Dollars only, to have uniformity. The technical and financial bids should be separate.
	The model with 'the best and latest technical features' available with the vendor should be quoted in tender response with original printed vendor data sheets. The system should incorporate all the features as per the December 2013 RSNA standards/declaration.
	All product catalogues in original.
	When the vendor data sheet disagrees with the bid response, clarification should accompany in the form of letter/certificates from the principals in original.
	System should be DICOM - 3MPPS & should be ready to integrate with any existing PACS/HIS System
	List of all installations of the system in the country
	The compliance statement must be filled strictly under headings given in the tender. Each specification corroborated in the compliance statement must give the page number where it is listed in the original technical data sheet along with soft copy. The technical bid should clearly mention model number and make, detailed technical specifications, quantity of each component offered. the technical bid should be duly supported by original brochure/catalogue of the manufacturer and relevant parts proposed to be supplied highlighted. In compliance statement units of measurement used should be same as in the required technical specifications.
	There should be no discrepancy between specifications given in technical bid, brochure and compliance statement. In case of any such discrepancy, the technical bid will be disqualified.
	The quotation should clearly mention the accessories (including quantity) which are part of the main equipment and the price of which is included in the main equipment. The equipment should be fully functional with the standard accessories.
15	**Buy-back offer**
	The buy-back price of the following items should be quoted:
i	Sonata MRI system
ii	Other accessories
	Price of the above is to be quoted separately. This shall not be taken in account in the price comparison.
16	**Training :**
1	On-site training of all faculty members & radiographers.
2	On-site training for radiographers and other staff by an application expert for a period of at least 3 months
3	One on-site engineer and application specialist to be available for a period of six months.

	Annexure 1
	Site Preparation Work
	The supplier shall be required to undertake all the pre-installation, site preparation work in the area as per the layout plan. The bidder will inspect the site for feasibility before tendering and submit the layout plan for approval by the HOD.
1	Rates of the following components of turnkey project should be quoted separately
a.	Civil
b.	Electrical
c.	Public health (water supply and sanitary fittings), if any
d.	Furniture
e.	Miscellaneous
a)	Civil work:
1	All dismantling and reconstruction to be done as per approved plan by the Institute .Active & passive room shielding for magnetic, fringle field should be provided as per the requirement of the equipment.
2	Vitrified non-slippery tile wall to wall including dado up to ceiling height including the imaging station except toilets which should have granite.
3	Metallic powder coated false ceiling with proper insulation (make to be approved by Engineering department) should be provided in the entire MRI complex.
4	Doors and windows (including chokhat and shutters) should be aluminum glazed of thickness 10 G with 20 micron anodizing and with 6 mm thick wired glass 12 mm-thick pre-laminated, board for the doors and windows.
b)	Electrical work & Air conditioning:
	The firms shall be required to specify the total load requirements for the entire equipment the air-conditioning units, room lighting and for the accessories if any. The load will be provided by the Institute to the distribution panel. The distribution's panel should have switch gear of Siemens / L& T makes and shall be provided by the vendor. (Any specific requirement of any kind if required shall be the responsibility of the tendering firm).
	The electrical work will include wiring , different lights and main switch fittings. The special ceiling light will be required particularly in the equipment room, which should have long life and should not be affected by frequent on and off.
iii.	The electrical work shall include the following:
a)	Wiring - the wires shall be of copper of different capacity as per the load and should be renowned W make like Finolex, Polycab.
b)	Switches light and power points should be of modular type and of make MKJNorth West.
c)	General lights -Mirror optical type 1 X28 W or 2X28 W/CFL fittings 2X36, 3X36 W with electronic ballasts Philips/Cromption/Kesselec-Schreder / Wipro make.
d)	The underground cables supplying the electricity load should be of Havells/Ecko& Polycab.

e)	MCBs/ACBs/MCCbs should be MDS/SIEMENS/ABB/ L & T.
f)	Roof light CFL down lighter of PHILIPS/OSRAM / WIPRO
g)	Main switchgears, fuse units should be L & T/SIEMENS/GE.
h)	Telephone cables should be of FINOLEX & R.R. cables.
i)	Electrical load of the system to be added as per the tender/brand of the equipment
j)	Dismantling of old electrical and DG set to be done by the agency and rebate on old dismantled material should be taken.
k)	DG set of 250KVA of CUMMINS/ Kirloskar with canopy (Noiseless), Autostart with main failure.
l)	Total Air conditioning capacity of 25 Tonnes with 10 Tonnes additional backup (new air conditioning system of reputed make)
m)	Stabilizer for A/C plant to be provided.
c)	Public health (water supply and sanitary fittings)
	Plumbing work has to be carried out as per the requirement without any hindrance to the existing Infrastructure. The waste pipes and accessories should be centrifuge cast iron and the connection of existing main hole in the public shaft shall be done.
	All water pipes and fittings shall be galvanized Iron of TATA make. The gratings shall be brass chrome plated.
d)	Furniture:
	All furniture items to be of Godrej or reputed make
i.	Patient chairs/Sofa for (20seats), office Chairs (1 5Nos) of Godrej or reputed make.
ii	Office table with 3 chairs & side storage rack (4sets)
iii.	Storage Almirah (4Nos) of Godrej make
iv.	Open storage racks (Godrej) make 8ft high (6Nos)
v.	Music System for Patient in the Scan room and waiting area
vi.	View box (Planilux or equivalent make) for at least four 14 x 17" fibres - 6 in numbers
vii.	Digital weighing scale - one
	Miscellaneous:
i	One channel stereo musical system inter-room communicating system connecting the reception counter with other cabins of the MRI complex. 24 lines with 3 incoming.
ii.	The outdoor units of AC should have grill coverings to prevent theft of copper pipes etc.
iii.	The vendor will provide manpower for utility security & operation on 24x7, 365 days basis during 5 year guarantee period and subsequently the cost to be included in CMC being offered.
	The whole package as above should be under guarantee / warranty under the same terms and conditions as per the 3.0 Tesla MRI unit CMC of the whole AC package system and turnkey work after the expiry of guarantee / warranty shall be covered along with 3.0 Tesla MRI Unit.


PROJECT
PROPOSED M.R.I. INSTALLATION AT L.N. HOSPITAL, DELHI
DRG. TITLE
PART PLAN
CORRIDOR
MAMMOGRAPHY
MEZZANINE TO BE CONVERTED INTO LIBRARY WITH NECESSARY LAN & ELECTRICAL POINTS
TOILETS TILES FITTING & FIXTURES TO BE CHANGED
STAFF ROOM
DOCTOR'S ROOM (MEZZANINE ABOVE)
WALL TILES UPTO 4' HEIGHT
REPLACE EXISTING A.C. UNITS WITH NEW UNITS
TEXTURE PAINT & SKIRTING TO BE REPLACED BY GRANITE DADO BELOW SLABS
WORKSTATION ALONG THE WALL WITH NECESSARY ELECTRICAL & LAN POINTS
ELECTRICAL + A.C. PLANT
SERVICE
MRI CABINETS
CH
PAT. PREP
EQUIPMENT ROOM
PASSAGE
CHILLER SHED
EXTERNAL CORRIDOR
WOODEN PANELLING TO DONE UPTO 6' FROM F.L. WITH ROUNDED WALL CORNERS
CORRIDOR 5'-0" WIDE
CONTROL
REPORTING ROOM
LED LIGHTING WITH CHANGING COLORS
RECEPTION
TOILET
TOILETS TILES FITTING & FIXTURES TO BE CHANGED
GRANITE DADO BELOW WOODEN BAND ON WALLS
OFFICE
* FLOORING IN ALL AREAS EXCEPT EXTERNAL CORRIDOR TO BE REPLACED WITH GRANITE FLOORING
* FALSE CEILING IN ALL AREAS TO BE REPLACED WITH METALLIC PLAIN FLASE CEILING EXCEPT MRI ROOM WHERE AL PANEL FALSE CEILING WILL BE DONE

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) 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.

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 may be quoted for next 5 years 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 may 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 it's tender is liable to be ignored.

Note 2: General: Bidders are requested to make sure that they should attach the list of equipment for carrying out routine and preventive maintenance wherever asked for and should make sure that Electrical Safety Analyzer/ Tester for Medical equipment 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 equipment. If the Electrical Safety Analyzer/Tester is not available they should provide a commitment to get the equipment 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: Supplier should provide adequate training of personnel and supply only non-locked open software and standard interface interoperability conditions for networked equipment in hospital management information system (HMIS)

Note 4: Training shall be given to the doctors, nurses, operators with proper training material, adequate operating manual & preliminary troubleshooting.

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, **atleast 100% of the quoted quantity** of the similar equipment meeting major parameters of technical specification which is functioning satisfactorily. (For equipment which are consumable in nature, as identified in the list of requirement, proof of delivery/acceptance by consignee/purchaser shall also be considered acceptable)

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 per Section XIX of TE document

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.**

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 mentioned in the price bid uploaded online, 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.)							
SI.No.	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
SI.No.	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 (included in FOB price)- ___% of FOB
Signature of Tenderer_____

Name_____
Business Address_____
Place: _____ **Signature of Tenderer_____**
Date: _____ **Seal of the Tenderer_____**

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

1	2	3	4					5
SI.No.	BRIEF DESCRIPTION OF GOODS	Qty. (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)]
			1st	2nd	3rd	4th	5th	
			a	b	c	d	e	

*** 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 may be quoted for next 5 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. 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.
4. Cost of CMC offered will be added (at a discounted rate of 10% per year)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

SI.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 XIX – 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

The Dean/ Director/ Medical Superintendent
(in the name of concerned Institution with its address)

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 66 (sixty six) 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

2. 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)]**
			1st	**2nd**	**3rd**	**4th**	**5th**	
			a	**b**	**c**	**d**	**e**	

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 5 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. Hospitalauthorised official)

_____

(Signature, name and address of Hospitalauthorised 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) Counter Signed by Director/MS/Dean of the concerned Hospital/Institute :_____

10) 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)

(Counter Signed by Director/MS/Dean of the concerned Hospital/Institute)

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

AFFIDAVIT/UNDERTAKING

I/ We have read and understood the instructions and the terms and conditions contained in the document. I/We accordingly accept all terms and conditions of the tender enquiry document including the essential conditions specially incorporated in the tender enquiry like terms of terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law. I/ We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities. I/ We do hereby declare that the information furnished/ uploaded is correct to the best of my/our knowledge and belief. I/ We also hereby certify that if at any time, information furnished by us is proved to be false or incorrect; I/ We are liable for any action as deemed fit by the purchaser in addition to forfeiture of the earnest money.

Date: **(Signature of the bidder)**

NAME & ADDRESS OF THE BIDDER

NOTE: To be submitted on non-judicial stamp paper of Rs. 10/- duly certified by Public Notary

Section – XX

CHECKLIST

Sl No.	Description
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.	Have you enclosed duly filled Tender Form as per format in Section X?
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?
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?

Sl No.	Description
13.	Have you submitted the certificate of incorporation?
14.	Have you accepted the warranty and CMC 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?
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 Affidavit as per Section XIX of the TE document?

N.B.

(i) The Tenderer may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender.

(ii) It is the responsibility of tendered to go through the TE document to ensure furnishing all required documents in addition to above, if any.

Section – XX
Consignee

Consignee Code	Medical Institutions	Contact Address.	AirPort	Dry Port
LNH	Lok Nayak Hospital	The Medical Superintendent, Lok Nayak Hospital Near Delhi Gate, Jawaharlal Nehru Marg, New Delhi – 110002 Phone - 011 2323 6000	New Delhi	Tughlaqabad, New Delhi

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