GLOBAL e-TENDER ENQUIRY DOCUMENT

FOR PURCHASE OF
MEDICAL EQUIPMENT
FOR INSTITUTIONS GETTING UPGRADED
UNDER PMSSY PHASE II

On behalf of

GOVT. OF INDIA

MINISTRY OF HEALTH & FAMILY WELFARE
HLL/PCD/PMSSY-II/07/15–16

BY

HLL Lifecare Limited

(A GOVERNMENT OF INDIA ENTERPRISE)
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SECTION I

NOTICE INVITING GLOBAL e-TENDERS (NIT)
from
HLL Lifecare Limited
(A GOVERNMENT OF INDIA ENTERPRISE)

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FOR
GOVT OF INDIA
MINISTRY OF HEALTH & FAMILY WELFARE

Tender Enquiry No.: HLL/PCD/PMSSY-II/07/15-16 **Dated 28.10.2015**

NOTICE INVITING e-TENDERS (NIT)

(1) Procurement & Consultancy Services Division of HLL Lifecare Limited, for and on behalf of Govt. of India, Ministry of Health & Family Welfare, invites sealed tenders, from eligible and qualified tenderers for supply of Medical Equipment to the institutions i.e. Government Medical College - Amritsar, Jawahar Lal Nehru Medical College (Aligarh Muslim University) –Aligarh , Pt.B.D.Sharma Post Graduate Institute of Medical Sciences,Rohtak and Dr. Rajendra Prasad Government Medical College - Tanda which are getting upgraded under Pradhan Mantri Swasthya Suraksha Yojna (PMSSY) Phase II:

Sch no	Event Number	Name of Item	Qty	EMD
1	3000000603	CT SCAN – 64 Rows / 128 slice	1	₹ 800,000
2	3000000604	Phaco emulsificatoin System	1	₹ 60,000
3	3000000605	Vitrectomy Machine	1	₹ 60,000
4	3000000606	High End Color Doppler	1	₹ 130,000
5	3000000607	High Frequency 800mA X Ray Unit	2	₹ 180,000
6	3000000608	Operating Microscope	1	₹ 60,000
7	3000000609	OT Light LED	6	₹ 180,000
8	3000000611	OT Light – LED with monitor, camera & recording system	2	₹ 60,000
9	3000000612	Electric Cautery/Electro Surgical Unit with Vessel sealing	3	₹ 30,000
10	3000000613	Electric Cautery/Electro Surgical Unit	10	₹ 100,000
11	3000000614	Ultrasonic cutting and Coagulation device	2	₹ 80,000

Sch no	Event Number	Name of Item	Qty	EMD
12	3000000615	Operating Table –Electro hydraulic	13	₹ 520,000
13	3000000616	GYNAECOLOGICAL OPERATION THEATRE TABLE	3	₹ 120,000
14	3000000617	ENT Treatment Unit (IMPORTED)	2	₹ 60,000
15	3000000618	General Surgical Instrument Set	1	₹ 60,000
16	3000000619	Video Endoscope System under GIP Pediatrics Surgery	1	₹ 60,000
17	3000000620	128 SLICE MDCT WITH INDEPENDENT 64 OR MORE ROWS OF DETECTOR	1	₹ 1,200,000
18	3000000621	Endoscope system of Neurosurgery	1	₹ 60,000
19	3000000622	E.N.T. OPERATING MICROSCOPE & Video Camera Unit	1	₹ 20,000
20	3000000623	OT Light LED	8	₹ 48,000
21	3000000624	Ultrasonic Cutting and Coagulation device	1	₹ 30,000
22	3000000625	Operating table Electro Hydraulic	12	₹ 120,000
23	3000000626	Electric Cautery/Electro Surgical Unit with vessel Sealing	5	₹ 26,000
24	3000000627	Electric Cautery/Electro Surgical Unit	12	₹ 84,000
25	3000000628	Surgical Operating Microscope for neurosurgery	1	₹ 276,000
26	3000000629	Cardio tocography machine (6 Nos) with One Central Station	1	₹ 70,000
27	3000000630	Video Endoscope unit	1	₹ 120,000
28	3000000631	Endoscopic Ultrasound system with accessories	1	₹ 200,000
29	3000000632	Argon Plasma Coagulation system	1	₹ 40,000
30	3000000633	C Arm for ERCP	1	₹ 80,000

(2) **Tender No.: HLL/PCD/PMSSY-II/06/14-15**

Sl.	Description	Schedule
a	Cost of the Tender Enquiry Document	Rs. 5000/- (Rs. Five Thousands Only)
b	Pre-bid meeting date , time & Venue	**04-Nov-2015,** 1100 hrs IST , HLL Lifecare Limited, , Procurement & Consultancy Services Division, B-14 A, Sector-62, Noida-201307
c	Closing date & time for submission of **tender fee and EMD in physical form**	**30-Nov-2015,1700 hrs (IST)** Bidders have to submit Original Bank Instruments viz. DD/BC/BG of tender fee and EMD within the above mentioned date and time
d	Closing date & time for submission of online bids	**02-Dec-2015, 1800 hrs IST**

Sl.	Description	Schedule
e	Time and date of opening of online bids	**03-Dec-2015, 1230 hrs IST**
f	Venue for :- • Submission of tender fee, EMD in physical form. • E-Tender Opening-Tech Bid	HLL Lifecare Limited, Procurement & Consultancy Services Division, B-14 A, Sector-62, Noida-201307

SPECIFIC Instructions for e-Tender Participation:-

3. Bidders should have valid Class 3 Digital Signature Certificate with encryption.
4. Bidders are requested to read the bidders help document on e-tender web site link before proceeding for bidding.
5. The prospective bidders have to register with the E-procurement system of HLL at https://etender.lifecarehll.com/irj/portal. On completion of the registration process, the bidders will be provided user ID and password within 48 hours (excepting non-working days). In order to submit the bids electronically bidders are required to have a valid Class 3 Digital Signature Certificate (signing and encryption/ decryption certificates).
6. Post receipt of User ID & Password, Bidders can log on for downloading & uploading tender document.
7. **The tenderers shall submit tender fee and EMD in physical form at the scheduled time and venue.**
8. Tenderer may download the tender enquiry documents from the web site www.lifecarehll.com or www.eprocure.gov.in/cppp or https://etender.lifecarehll.com/irj/portal .
9. The submission of tender online can only be done thru' https://etender.lifecarehll.com/irj/portal .
10. All prospective tenderers may attend the Pre Tender meeting. The venue, date and time indicated above.
11. Tenderers shall ensure that their tenders, complete in all respects, are submitted **online through HLL's e-portal (as described above) ONLY. No DEVIATION is acceptable.**

IMPORTANT NOTE :-Tender fee(Rs.5,000/-) and EMD (As applicable) should be deposited 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 **30-Nov-2015, 1700 hrs (IST). Submission beyond stipulated date & time would result in REJECTION of BID.**

SVP (GB)
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 Ministry of Health & Family Welfare Govt of India.

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

(iii) **"Tenderer"** means Bidder/ the Individual or Firm submitting Bids / Quotation / e-Tenders.

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

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

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

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

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

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

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

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

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

(xii) "Day" means calendar day.

1.3 Abbreviations:

(i) "TE Document" means Tender Enquiry Document
(ii) "NIT" means Notice Inviting Tenders.
(iii) "GIT" means General Instructions to Tenderers
(iv) "SIT" means Special Instructions to Tenderers
(v) "GCC" means General Conditions of Contract
(vi) "SCC" means Special Conditions of Contract

(vii) "DGS&D" means Directorate General of Supplies and Disposals
(viii) "NSIC" means National Small Industries Corporation
(ix) "PSU" means Public Sector Undertaking
(x) "CPSU" means Central Public Sector Undertaking
(xi) "LSI" means Large Scale Industry
(xii) "SSI" means Small Scale Industry
(xiii) "LC" means Letter of Credit
(xiv) "DP" means Delivery Period
(xv) "BG" means Bank Guarantee
(xvi) "ED" means Excise Duty
(xvii) "CD" means Custom Duty
(xviii) "VAT" means Value Added Tax
(xix) "CENVAT" means Central Value Added Tax
(xx) "CST" means Central Sales Tax
(xxi) "RR" means Railway Receipt
(xxii) "BL" means Bill of Lading
(xxiii) "FOB" means Free on Board
(xxiv) "FCA" means Free Carrier
(xxv) "FOR" means Free On Rail
(xxvi) "CIF" means Cost, Insurance and Freight
(xxvii) "CIP (Destinations)" means Carriage and Insurance Paid up to named port of destination. Additionally the Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery.
(xxviii) "DDP" means Delivery Duty Paid named place of destination (consignee site)
(xxix) "INCOTERMS" means International Commercial Terms as on the date of Tender Opening
(xxx) "MOH&FW" means Ministry of Health & Family Welfare, Government of India

(xxxi) "Dte. GHS" means Directorate General and Health Services, MOH&FW.
(xxxii) "CMC" means Comprehensive maintenance Contract (labour, spare and preventive maintenance)
(xxxiii) "RT" means Re-Tender.

2. Introduction

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

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

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

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

3. Availability of Funds

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

4. Language of Tender

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

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

5. Eligible Tenderers

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

6. Eligible Goods and Services

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

7. Tendering Expense

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

B. e-TENDER ENQUIRY DOCUMENTS

8. Content of Tender Enquiry Documents

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

- Section II – General Instructions to Tenderers (GIT)
- Section III – Special Instructions to Tenderers (SIT)
- Section IV – General Conditions of Contract (GCC)
- Section V – Special Conditions of Contract (SCC)
- Section VI – List of Requirements
- Section VII – Technical Specifications
- Section VIII – Quality Control Requirements
- Section IX – Qualification Criteria
- Section X – Tender Form
- Section XI – Price Schedules
- Section XII – Questionnaire

- Section XIII – Bank Guarantee Form for EMD
- Section XIV – Manufacturer's Authorisation Form
- Section XV – Bank Guarantee Form for Performance Security/CMC Security
- Section XVI – Contract Forms A & B
- Section XVII – Proforma of Consignee Receipt Certificate

- Section XVIII – Proforma of Final Acceptance Certificate by the consignee
- Section XIX – Instructions from Ministry of Shipping/ Surface Transport (Annexure 1 & 2)
- Section XX – Check List for the Tenderers
- Section XXI – Consignee List

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

9. Amendments to TE documents

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

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

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

10. Clarification of TE documents

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

C. PREPARATION OF e-TENDERS

11. Documents Comprising the e-Tender

11.1 The tender shall be submitted online **ONLY EXCEPT TENDER FEE & EMD** (in physical form) as mentioned below:

(i) Technical Bid (Consisting of Eligibility Criteria & Technical Specifications viz. Product Specification Sheets/Brochures, OEM Certificate etc.) . Bidders may name the files indicating the nature of content in pdf format which would be required to be attached in e-tender.

(ii) Price Bid (To be filled up in the Proforma , Signed, Stamped, Scanned to pdf mode & attach under PRICE BID .

DO NOT'S

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.

A) Technical Tender (Un priced Tender)

All Technical details (eg. Eligibility Criterias requested (as mentioned below)) should be attached in C-Folder of e-tendering module , failing which the tender stands invalid & REJECTED.

Bidders shall furnish the following information along with technical tender (in pdf format):

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

B) Price Bid:

1. Prices are to be quoted in the attached Price Bid format online on e-tender portal in pdf format & apply digital signature certificate. **While uploading the price the tenderer has to ensure that the FILE NAME of the attached document SHOULD BE SAME as that of provided price bid format.**

2. The price should be quoted for the accounting unit indicated in the e-tender document.

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. Any deviation would result in REJECTION of tender and would not be considered at a later stage at any cost by HLL.

11.2 A person signing (manually or digitally) the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrantee that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages.

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

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

12. Tender currencies

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

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 Japanese Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only (INR), 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 alongwith with applicable discounts (if any). 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), Loading & Unloading etc. would be borne by the Supplier from ware house to the consignee site for a period including 03 months beyond date of delivery.
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.
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) **F**reight and insurance charges.
The price of goods quoted CIP (name port of destination) in India as indicated in the List of Requirements, Price Schedule and Consignee List
c) 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;
d) The charges for Incidental Services, as in the 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.

13.5 **Additional information and instruction on Duties and Taxes:**

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

13.5.2 **Excise Duty:**

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

reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

13.5.3 **Sales Tax:**

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

13.5.4 **Octroi Duty and Local Duties & Taxes:**

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

13.5.5 **Customs Duty:**

The Purchaser will pay the Customs duty wherever applicable.

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

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

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

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

14. Indian Agent

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

a) The complete name and address of the Indian Agent and its permanent income tax account number as allotted by the Indian Income Tax authority.
b) The details of the services to be rendered by the agent for the subject requirement.
c) Details of Service outlets in India, nearest to the consignee(s), to render services during Warranty and CMC period.

d) A copy of agreement between the Agent & their principal detailing the terms & conditions as well as services and after sales services as above to be rendered by the agent and the precise relationship between them and their mutual interest in the business as laid out in section VII (Technical specifications).

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

15. Firm Price

15.1 Unless otherwise specified in the SIT, prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account.
15.2 However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated in GIT clause 13 will apply.

16. Alternative Tenders

16.1 Alternative Tenders are not permitted.
16.2 However the Tenderers can quote alternate models meeting the tender specifications of same manufacturer with single EMD.

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

17 Documents Establishing Tenderer's Eligibility and Qualifications

17.1 Pursuant to GIT clause 11, the tenderer shall furnish, as part of its tender, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its tender is accepted.
17.2 The documentary evidence needed to establish the tenderer's qualifications shall fulfil the following requirements:

a) in case the tenderer offers to supply goods, which are manufactured by some other firm, the tenderer has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The tenderer shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XIV in this document.
b) the tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.
c) in case the tenderer is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.

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

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

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

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

19. Earnest Money Deposit (EMD)

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

19.2 The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation, New Delhi 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 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. Digital Signing of e-Tender

21.1 The tenderers shall submit their tenders as per the instructions contained in GIT Clause 11. Tenders shall be uploaded with all relevant PDF format . The relevant tender documents should be uploaded by an authorised person having Class 3 B digital signature certificate.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

22.1 The tender shall be submitted online only.

(i) Pre-qualification and Technical compliance as per following documents **(ONLY Online submissions for all the documents.)**

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) Compliance of all terms and conditions of TED like- warranty, delivery period, delivery terms, payment terms etc

d) Declaration regarding Fall Clause and Deregistration, debarment from any Govt Dept/ Agencies

e) Copy of PAN.

f) Certificate of Incorporation/Declaration being a proprietary firm.

g) Abridged Annual report of last 03 years (Balance sheet and Profit & Loss Account) in pdf format.

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

i) Quality Control Requirements as per Section VIII

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

k) Technical Bid along with clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications along with product catalogue and data sheet in the tender enquiry.

(ii) <u>PRICE BID (ONLY ONLINE).</u>

22.2 The tenderers must ensure that they submit the on-line tenders not later than the closing time and date specified for submission of tenders.

Along with price bid recent purchase order copies for the same model and technical configuration issued by institute of National importance / reputed central / state government hospitals should be uploaded in pdf form for price reasonability.

23. Late Tender

23.1 There is NO PROVISION of uploading late tender beyond stipulated date & time in the e-tendering system.

24. Alteration and Withdrawal of Tender

24.1 The tenderer, is permitted to change ,edit or withdraw it's bid on or before the end date &time.

E. TENDER OPENING

25. Opening of Tenders

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

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

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

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

25.3 Two - Tender system as mentioned in Para 21.6 above will be as follows. The **<u>Techno - Commercial Tenders</u>** 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 is unsigned.
(iii) Tender validity is shorter than the required period.
(iv) Required EMD (Amount, validity etc.)/ exemption documents have not been provided.
(v) Tenderer has quoted for goods manufactured by other manufacturer(s) without the required Manufacturer's Authorisation Form as per Section XIV.
(vi) Tenderer has not agreed to give the required performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V – "Special Conditions of Contract", for due performance of the contract.
(vii) Deleted
(viii) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.
(ix) Poor/ unsatisfactory past performance.
(x) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
(xi) Tenderer is not eligible as per GIT Clauses 5.1 & 17.1.
(xii) Tenderer has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.
(xiii) Tenderer has not agreed for the delivery terms and delivery schedule.

28. Minor 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 Qualification Criteria prescribed in Section IX, will be treated as non - responsive and will not be considered further.

32. Conversion of tender currencies to Indian Rupees

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

33. Schedule-wise Evaluation

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

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

34. Comparison of Tenders

34.1 Unless mentioned otherwise in Section – III – Special Instructions to Tenderers and Section – VI – List of Requirements, the comparison of the responsive tenders shall be carried out on Delivery Duty Paid (DDP) consignee site basis. The quoted turnkey prices and CMC prices will also be added for comparison/ranking purpose for evaluation. **"Net Present value (NPV) of the Comprehensive Annual Maintenance charges (CMC) quoted for 5 years after the warranty period shall be added to the bid price for evaluation and will be calculated after discounting the quoted price by a discounting factor of 10% per annum."**

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

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

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

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

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

35.3 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.

i. In exercise of powers conferred in Section 11 of the Micro, Small and Medium Enterprises Development (MSMED) Act 2006, the Government has notified a new Public Procurement Policy for Micro & Small Enterprises effective from 1st April 2012. The policy mandates that 20% of procurement of annual requirement of goods and services by all Central Ministries / Public Sector Undertakings will be from the micro and small enterprises. The Government has also earmarked a sub-target of 4% procurement of goods & services from MSEs owned by SC/ST entrepreneurs out of above said 20% quantity.

ii. In accordance with the above said notification, the participating Micro and Small Enterprises (MSEs) in a tender, quoting price within the band of L 1+15% would also be allowed to supply a portion of the requirement by bringing down their price to the L 1 price, in a situation where L 1 price is from someone other than an MSE. Such MSEs would be allowed to supply up to 20% of the total tendered value. In case there are more than one such eligible MSE, the 20% supply will be shared equally. Out of 20% of the quantity earmarked for supply from MSEs, 4% quantity is earmarked for procurement from MSEs owned by SC/ST entrepreneurs. However, in the event of failure of such MSEs to participate in the tender process or meet the tender requirements and the L 1 price, the 4% quantity earmarked for MSEs owned by SC/ST entrepreneurs will be met from other participating MSEs.

iii. The MSEs fulfilling the prescribed eligibility criteria and participating in the tender shall enclose with their tender a copy of their valid registration certificate with District Industries Centres or Khadi and Village Industries Commission or Khadi and

Village Industries Board or Coir Board or National Small Industries Corporation or any other body specified by Ministry of Micro and Small enterprises in support of their being an MSE, failing which their tender will be liable to be ignored.

36. Tenderer's capability to perform the contract

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

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

37. Contacting the Purchaser

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

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

G. AWARD OF CONTRACT

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

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

39. Award Criteria

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

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

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

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

41. Notification of Award

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

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

42. Issue of Contract

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

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

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

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

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

44. Return of E M D

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

45. Publication of Tender Result

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

46. Corrupt or Fraudulent Practices

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

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

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

(ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and

includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;

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

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

SECTION - III
SPECIAL INSTRUCTIONS TO TENDERERS
(SIT)

Sl. No.	GIT Clause No.	Topic	SIT Provision	Page No.
A	1 to 7	Preamble	No Change	25
B	8 to 10	TE documents	No Change	25
C	11 to 21	Preparation of Tenders	Change	25
D	22 to24	Submission of Tenders	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.

SUBMISSION OF e-TENDERS

(i) All the necessary documents as prescribed in the NIT shall be prepared and scanned in different files (in PDF format as prescribed) and uploaded for on-line submission of Proposal.

(ii) Except Tender Fee and EMD, all document(s)/ information(s) 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 of document is less. This is a generic format and all software supports this format.

(v) The Individual file size of uploading is restricted upto 5 MB . Bidders may upload multiple files (Not exceeding 5 MB individually) & name the files in a way , which describes the contents.

SECTION - IV

GENERAL CONDITIONS OF CONTRACT (GCC)
TABLE OF CLAUSES

GENERAL CONDITIONS OF CONTRACT (GCC)

1. Application

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

2. Use of contract documents and information

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

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

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

3. Patent Rights

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

4. Country of Origin

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

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

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

5. Performance Security

5.1 Within fifteen (15) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum 66 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 and lodging will be borne by the purchaser and/or its nominated representative(s) for the first visit. In case the goods are rejected in the first instance and the supplier requests for re-inspection, and if same is accepted by purchaser/consignee/PSA/PA, all subsequent inspections shall be at the cost of the supplier. The expense will be to and fro Economy Airfare, Local Conveyance, Boarding and Lodging of the inspection team for the inspection period."

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

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

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

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

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

"On rejection, the supplier shall remove such stores within 14 days of the date of intimation of such rejection from the consignee's premises. If such goods are not removed by the supplier within the period mentioned above, the purchaser/consignee may remove the rejected stores and either return the same to the supplier at his risk and cost by such mode of transport as purchaser/consignee may decide or dispose of such goods at the suppliers risk to recover any expense incurred in connection with such disposals and also the cost of the rejected stores if already paid for."

8.7 Goods accepted by the purchaser/consignee and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the

same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause 15.

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

9. Terms of Delivery

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

10. Transportation of Goods

10.1 Instructions for transportation of imported goods offered from abroad:

The supplier shall not arrange part-shipments and/or transhipment without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under CIP (Named port of destination) terms; the shipment shall be made by Indian flag vessel or by vessels belonging to the conference lines in which India is a member country through India's forwarding agents/coordinators. In case the forwarding agent/coordinators are unable to provide timely adequate space in Indian flag vessel or by vessels belonging to the conference lines, the supplier shall arrange shipment through any available vessel to adhere to the delivery schedule given in the contract.
In case of airlifting of imported goods offered from abroad, the same will be done only through the National Carrier i.e. Air India wherever applicable. In case the National Carrier is not available, any other airlines available for early delivery may be arranged.

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

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

11. Insurance:

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

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

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

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

12. Spare parts

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

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

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

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

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

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

13. Incidental services

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

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

14. <u>DISTRIBUTION OF DISPATCH DOCUMENTS FOR CLEARANCE/RECEIPT OF GOODS</u>

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 till the completion of the original warranty period of the main equipment.

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

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

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

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

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

16. ASSIGNMENT

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

17. SUB CONTRACTS

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

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

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

18. MODIFICATION OF CONTRACT

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

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

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

19. PRICES

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

20. TAXES AND DUTIES

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

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

21. TERMS AND MODE OF PAYMENT

21.1 Payment Terms

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

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

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

a) On delivery:

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

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

b) On Acceptance:

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

B) <u>PAYMENT FOR IMPORTED GOODS:</u>

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

a) On Shipment:

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

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

(ix) Inspection Certificate for the despatched equipments issued by recognized/ reputed agency like SGS, Lloyd, BEAURU VARITUS and TUV prior to despatch.

b) On Acceptance:

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

c) Payment of Indigenous Goods :

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

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

e) Payment of Indian Agency Commission:

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

C) Payment of Turnkey, if any:

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

D) Payment for Annual Comprehensive Maintenance Contract Charges:

The consignee will enter into CMC with the supplier at the rates as stipulated in the contract. The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by the consignee on receipt of bank guarantee for

an amount equivalent to 2.5 % of the cost of the equipment as per contract in the prescribed format given in Section XV valid till 2 months after expiry of entire CMC period.

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

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

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

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

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

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

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

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

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

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

22. Delivery

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

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

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

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

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

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

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

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

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

22.6Passing 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 arbitration of an officer in the Ministry of Law and Justice, appointed to be the arbitrator by the Director General (Health Services). 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 conditions will be as mentioned in the list of requirement as per section VI of the tender enquiry.

SECTION - VI
LIST OF REQUIREMENTS

Part I

Sch no	Event Number	Name of Item	Department	Qty	Consignee	Warranty in years	CMC in years
1	3000000603	CT SCAN – 64 Rows / 128 slice	Trauma Care	1	Pt. BDS PGIMS Rohtak	5	5
2	3000000604	Phaco emulsificatoin System	Regional Institite of Opthalmology	1		5	5
3	3000000605	Vitrectomy Machine	Regional Institite of Opthalmology	1		5	5
4	3000000606	High End Color Doppler	Radiology	1		5	5
5	3000000607	High Frequency 800mA X Ray Unit	Trauma Care	2		5	5
6	3000000608	Operating Microscope	Neurosurgery	1		5	5
7	3000000609	OT Light LED	Urology	1		5	5
			Trauma Care	5			
8	3000000611	OT Light – LED with monitor, camera & recording system	OBG & GYN	2		5	5
9	3000000612	Electric Cautery/Electro Surgical Unit with Vessel sealing	Anesthesia	3		5	5
10	3000000613	Electric Cautery/Electro Surgical Unit	Anesthesia	10		5	5
11	3000000614	Ultrasonic cutting and Coagulation device	Urology	1		5	5
			General Surgery	1			
12	3000000615	Operating Table –Electro hydraulic	Anesthesia	13		5	5
13	3000000616	GYNAECOLOGICAL OPERATION THEATRE TABLE	OBG & GYN	3		5	5
14	3000000617	ENT Treatment Unit (IMPORTED)	ENT	2		5	5
15	3000000618	General Surgical Instrument Set	Trauma Care	1		5	5
16	3000000619	Video Endoscope System under GIP Pediatrics Surgery	Paediatric Surgery	1		5	5

Sch no	Event Number	Name of Item	Department	Qty	Consignee	Warranty in years	CMC in years
17	3000000620	128 SLICE MDCT WITH INDEPENDENT 64 OR MORE ROWS OF DETECTOR	OPD & Trauma	1	JNMC Aligarh	5	5
18	3000000621	Endoscope system of Neurosurgery	OPD & Trauma	1		5	5
19	3000000622	E.N.T. OPERATING MICROSCOPE & Video Camera Unit	OPD & Trauma	1		5	5
20	3000000623	OT Light LED	OPD & Trauma	8		5	5
21	3000000624	Ultrasonic Cutting and Coagulation device	OBG & GYN	1		5	5
22	3000000625	Operating table Electro Hydraulic	OBG & GYN	2		5	5
			OPD & Trauma	10			
23	3000000626	Electric Cautery/Electro Surgical Unit with vessel Sealing	OBG & GYN	4		5	5
			OPD & Trauma	1			
24	3000000627	Electric Cautery/Electro Surgical Unit	OPD & Trauma	12		5	5
25	3000000628	Surgical Operating Microscope for neurosurgery	Neurosurgery	1		5	5
26	3000000629	Cardio tocography machine (6 Nos) with One Central Station	Labour Room OBG & GYN	1	GMC Amritsar	5	5
27	3000000630	Video Endoscope unit	Gastroenterology	1		5	5
28	3000000631	Endoscopic Ultrasound system with accessories	Gastroenterology	1	DRPMC Tanda	5	5
29	3000000632	Argon Plasma Coagulation system	Gastroenterology	1		5	5
30	3000000633	C Arm for ERCP	Gastroenterology	1		5	5

Part II: Required Delivery Schedule:

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

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

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

b) For Imported goods directly from foreign:

90 days from the date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway bill. (Tenderers may quote the earliest delivery period).

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

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

Part III: Scope of Incidental Services:

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

Part IV:

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

Part V:

Warranty period as per details in general technical specification and as specified in Part I above. Warranty period will be 60 months from the date of installation, commissioning and acceptance or 66 months from the date of last shipment/dispatch, whichever is earlier.

Comprehensive Maintenance Contract (CMC) as per details in Technical Specification as specified in part I above

Part VI:

Required Terms of Delivery and Destination.

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

At Consignee Site(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.

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

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

Destination/Consignee details are given in Section XXI

Section – VII
Technical Specifications

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

Note 3: Adequate training of personnel and non-locked open software and standard interface interoperability conditions for networked equipment in hospital management information system (HMIS)

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

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

TECHNICAL SPECIFICATIONS

Schedule: 1

CT SCAN – 64 Rows / 128 slice

The system should be latest state of art, independent 64 or more rows of detectors with acquisition of at least 128 slices per rotation capable of integrating with any PACS/HIS system. The system should be DICOM - ready with true isotropic volume acquisition and sub millimeter resolution. The model quoted should be, AERB Type approved and US FDA and European CE certified. The essential requirements of the system are as follows:-

a) Gantry:
- •Aperture: 70 cms or more
- •FOV: 50 cms or more
- • 3-D laser lights for positioning.

b) X-Ray Generator:
- •High Frequency type.
- •Power output : 70 kW or higher. The generator with the higher power output would be preferred.
- •mA Range: 20-600 mA (With incremental steps of 10 mA)
- •KV Range: 80-110 or more

c) X-Ray Tube:
- •Tube Voltage: 80-110 kV or more
- •Anode Heat Storage Capacity of at least 7.5 MHU or direct cooling tube

d) Patient Table:
- •Load carrying capacity at least of 180 Kg with positional accuracy of 1 mm or less
- •Metal free scan-able range of 150 cm or more
- •Floating table top with foot pedal/hand control for positioning.

e) Spiral Acquisition:
- •Scan Time should be 0.35 sec or less for full 360 degree rotation.
- •Minimum slice thickness should be 0.625 mm or less.
- •Pitch Factor (volume pitch): freely selectable in auto mode and also manually variable between 0.5 to 1.5 or more. Specify all possible pitch selections.
- •Bolus Triggered or bolus chase spiral acquisition should be available.
- •Real time x-ray dose reduction which combines both Z axis and angular tube current modulation to adjust the dose to the size and shape of individual.

f) Image Resolution:

1 High contrast resolution should be at least 15 lp/cm for axial and spiral scan at 0% MTF with full FOV.

2 Low contrast resolution – 5mm or less at 3.0 HU using 20 cm CATPHAN phantom on 10 mm slice thickness.

g) Data Acquisition System:
- •Detector- Capable of acquiring 128 slices per 360 degree of rotation.
- •At least 64 rows of independent detectors with acquisition of at least 128 slices per rotation with maximum Z-axis coverage
- •Solid state or rare earth detectors of latest technology free from repeated calibration.

h) Image Reconstruction:
- •High speed real time reconstruction with display matrix of 1024x1024 or more.
- •Reconstructed slice thickness should be sub-millimeter to 10mm freely selectable.

i) Operator Console:
- • High resolution medical grade LCD color monitors of 19” or more.

3001/W-21309555

- • Raw Data storage with at least 500 GB Hard disc having image storing capacity of 5,00,000 or more in 512x512 format.

• Auto-voice capability with custom designed key board and mouse.
• Archiving options: CD-R, DVD, should be available. 5000 rewritable DVDs should be provided.

j) Workstation client server architecture:

1 The server of at least 10 terabyte storage capacity with expansion slot of additional tera bytes. CPU of 3GHz or better, with 19" or more high resolution medical grade colour LCD monitors capable of simultaneously viewing and performing all post processing functions and filming independently without the help of main console

2 Two way data transfer between the operator console & the server should be automatic and standard.

3 Four nos of client nodes with concurrent license for 20000 slices rendering capacity & it should be high speed (minimum post processing frame rate of 16frames/sec) CPU minimum 3GHz, 19" monitor, 16GB RAM with an independent Hard disc of 1TB. The necessary connectivity (wifi/Lan) etc for proper functioning should be provided by the vendor.

4 All post processing facility and data archiving should be available independently at all server/client nodes.

2 Memory of the workstation should be independent of the console.

3 Two way data transfer between the operator console & the satellite workstation should be automatic and standard.

4 Post Processing Softwares

i) Perfusion CT for brain

ii) CT Angio, VRT, MIP, MPR, 3-D Shaded Surface display, Image Fusion, Vessel segmentation, luminal view

iii) Virtual Endoscopy with facility for virtual dissection and computer aided detection of polyps.

iv) Advanced cardiac package including Coronary Artery Imaging, Calcium Scoring, Myocardial Perfusion, Arrythmia rejection, Myocardial Viability software, Cardiac functional analysis and advanced Vessel Analysis including stenosis assessment. Facility for prospective and retrospective ECG gating, facility for automatic selection of rotation speed according to heart beat and step and shoot for low dose acquisition should be available.

v) Automatic bone Removal facility.

vi) Dental CT.

vii) Lung nodule evaluation software. CAD for Lung nodule evaluation software should be quoted as standard

viii) Liver segmentation display software in different colours, volumetry and virtual surgical plane identification

ix) DELETED

5 Interactive & Automatic Cine display should be available.

6 Image Evaluation Tools:

(i) Parallel evaluation of multiple ROI in circle, irregular and Polygonal forms,

(ii) Statistical Evaluation for area/ volume, S.D, Mean/Max and Histograms.

(iii) Distance & angle measurement, freely selectable, positioning of co-ordinate system, grid and image annotation.

7 DELETED

k) Patient communication system:

1 An integrated intercom and Automated Patient Instruction System (API) should be provided.

2 Two closed circuit TV for patient monitoring.

l) Dry Chemistry Laser Imager:

1 Resolution: 16 bits/ 500 dpi or more with minimum three ports.

2 Support Multiple Film Sizes: one of which must be 17”x14”.

3 DICOM 3.0 Compatible.

m) System Configuration Accessories, spares and consumables:
• Collapsible wheel chair with rubberized swivel wheels - 01 nos.
•Standard Patient positioning accessories and restraining devices - 02 sets.

•Lightweight "ZERO LEAD" Radiation protection apparels including Aprons - 5 Nos. Gonadal shields – 5 Nos, Thyroid shields – 5 Nos and Lead goggles – 5 Nos.
•Lead Glass 100 cm x 150 cm of 2 mm Lead equivalence as per the requirement of the equipment. As per AERB recommendations
•Online UPS of suitable rating should be supplied for the complete system including Gantry, computer system, with at least 30 minutes back up.
•Dual Head Pressure Injector with 50 syringes of 200 ml.
•Software for Remote Diagnostics Service should be provided.
•System must be PACS, HIS/RIS interface ready without any new hardware or software.
•Centralized oxygen and suction facility (to be connected to the nearest port) in gantry and recovery room.
A free comprehensive software update guarantee for entire life of scanner must be provided
•Warranty: 60 months from the date of satisfactory installation. The warranty shall cover all the accessories, turnkey work including CT tube and all consumables.
•Comprehensive Maintenance Contract for next five years including all the accessories, turnkey work, Air conditioning and CT tube and all consumables.
Real time CT Fluoroscopy with at least 6 to 8 frames per second with dedicated 19" color LCD monitor. Facility table side controls and foot switch for biopsy to be quoted as standard

n) Instructions to the vendors/suppliers: All companies must give product data sheets confirming the specifications along with the tender. The compliance statement must be filled strictly under the heading given in the tender. Each specification corroborated in the compliance statement must give the page number where it is listed in the product data sheet. Incompletely filled information will not be considered.
Vendors are requested to see the site for installation of the CT.

o) AERB site approval: Vendors shall be responsible for getting AERB Site Plan approval prior to installation.
Added Para: Should include Revolutionary technology in Needle Positioning using Robotics systems (Price should be quoted separately)
Added Para: Vendors will get the QA of the CT done as per AERB guidelines during warranty as well as CMC period without any additional cost
Added para: Radiofrequency Generator (RF): Price to be quoted separately
Added Para: Turnkey
Scope of work for turnkey CT
1. The Supplier should inspect the proposed site quotationed by the Consignee Institute in which the CT system has to be installed and they are required to submit the plan for the complete CT Scan Centre on a turnkey basis. The scope of work includes complete Civil work, Electrical, Plumbing, Furnishing, Air-conditioning and Fire fighting for the construction of CT Scan Centre.
2. While preparing the plan, the following aspects have to be addressed.
a) Care should be taken to provide easy negotiation of the patient stretchers/ trolleys through corridors and doors.
b) Radiation shielding for doors, walls, glass viewer etc.
c) Furniture like desk, chairs, shelves etc.
d) Patient stretcher and other furniture/ accessory to make the scan centre functional.
3. The cost of Turnkey for the area of 2500sq.ft and Air-conditioning of Tonnage 21 TR will be considered for Ranking / Evaluation purpose.
4. Moreover Bidders will have to quote the Unit Rates of the following components of turnkey work.
a) Civil works
b) Electrical work
c) Public health (plumbing and sanitary fittings).
d) Air Conditioning (HVAC)
e) Interior Furnishing & Furniture
f) Miscellaneous

5. The supplier should inspect the proposed site and submit all the detailed structural and architectural drawings and BOQ for the proposed CT Scan Centres along with technical bid of the tender.

The CT SCAN CENTRE shall consist of the following rooms:

a. CT Gantry Room
b.Console room
c. Equipment room
d.Patient preparation room
e. Reporting room
f. Patient waiting area
g.Radiologist room
h. store room
i. reception area
j. toilets

The actual area of turnkey works done will be considered for payment, based on the site measurements.

Civil work

a) Civil construction work including construction of brick wall if any, plastering, flooring as per the approved plan and equipment layout plan.
b) Concrete bed at CT equipment area.
c) Platform for unloading and shifting the CT should be provided if necessary.
d) Cable tray, trench & channel – necessary trenches, cable tray and channels at required location would be provided.
e) All the construction work to be done as per the final plan approved by the Consignee.
f) Active and passive room shielding for magnetic, fringe field should be provided as per the requirement of the equipment.

a) Flooring

1 600 x 600 mm vitrified tiles with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.

2 50 mm thick cement concrete flooring with Vinyl flooring in CT equipment / UPS room.

b) Painting

1 Two coats Plastic Emulsion Paint over 2 coats of wall putty including primer in patient preparation area, Lobby area, console room, CT Gantry & Equipment room etc.

c) False Ceiling All plumbing accessories should be of standard make.

1 Acoustical tile for ceiling with light weight insulating material of high quality supported on grid or finished seamless with support above ceiling. Finished with white paint or powder coated with white paint, if metallic. Ceiling height to suit the equipment mount and clearances.

Plumbing work

1 All water pipes and fittings shall be of high density polythene of approved and standard make. The gratings shall be brass chrome plated.

2 Hot water service to be provided if required.

Electrical work

1 The supplier shall be required to specify the total load requirements for the CT scan centre including the load of air conditioning , room lighting and for the accessories if any. The supply line will be provided by the Institute up to one point within the CT Scan centre area. The distribution panel shall be provided by the vendor. Few lights in each room shall be connected to the UPS to provide emergency lighting.

2 The electrical work shall include the following:

a. Wiring – All interior electrical wiring- with main distribution panel board, necessary MCBs, DB, joint box, switch box etc. the wires shall be of copper of different capacity as per the load and should be renowned make as listed below.

b. Switches light and power points should be of modular type and of standard make as listed below.

c. General lights – Mirror optical type 1X28 W or 2X28 W/CFL fittings 2X36, 3X36 W with electronic ballasts

3 AIR CONDITIONING:

Ductable package air conditioners and split AC units may be used according to room requirement and suitability. Humidity control should be effective to eliminate moisture condensation on equipment surface. The Air conditioning should be designed with standby provision to function 24 hours a day. The outdoor units of AC should have grill coverings to prevent theft and damage. Ventilation is required in toilet.

2 Environment specifications:

a) Humidity range: Relative humidity 60% and 80% in all areas except equipment room which shall be as per requirement of the equipment.

b) Temperature ranges: 22± 2° C in all areas except equipment room which shall be as per requirement of the equipment.

c) Air conditioning load: The heat load calculations and maintaining the desired temperature and humidity shall be the responsibility of the bidder.

Furniture:

a) Revolving chairs height adjustable, medium-back with hand-rest in the Control room, Radiologist room and viewing area. – 12 Nos.

b) Chairs for patient waiting area – Three seater (chrome plated). - 10 Nos.

c) Cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement. – 6 Nos.

d) Drug trolleys 1 numbers for patient preparation area.

e) Patient trolley with rubber foam mattress to be kept in the patient preparation room.

f) Name boards for all rooms

g) Tables for Workstation and Radiologist in reporting room.- 6 Nos

h) Changing rooms should have change lockers and dressing table.

i) Dustbins (plastic with lid) to be provided as required.

j) Any other furniture item as per requirement.

i) Almirah – 4Nos

All furniture items should be of standard make as mentioned in the table below.

Miscellaneous:

1 Reporting room should have LED X-ray Film viewer with adjustable brightness ; capable of holding 3 films of 14”x17” size. – 6 no.s

2 Cabling of Network (LAN) connectivity for camera system, console system, workstation and computers etc.

3 Broadband connection: for REMOTE SERVICE of CT system.

4 Fire extinguisher Dry CO2 type as required for the building safety.

SL NO ITEMS PREFERRED MAKES A FLOORING VITRIFIED TILES -Somany, Kajaria , H&R Johnson, RAK india B PAINT - Dulux, Asian Paints , Nerolac C PLUMBING - Kohler, Jaguar , Grohe , Roca D SANITARY ITEMS - CERA, Hindware, Parryware E ELECTRICAL 1 CABLES - Finolex, Havells ,V-Guard

2 SWITCHES - Legrand, L&T, Crabtree , Roma 3 DISTRIBUTION BOX , MCB - Legrand, L&T, Siemens, Havels 4 LIGHT FITTINGS - Philips / Crompton / Kesselec-Schreder / Wipro. F AIR CONDINTIONING - Daikin, Hitachi, Blue Star, Voltas, G FURNITURE - Hermen Miller , Godrej , Featherlite

Schedule: 2

Phaco Emulsification System

Used in multisurgical fragmentation and aspiration of the lens matter of the eye:

1 Pump: Peristaltic digital pump

2 Fluides: Closed Fluidic system

Maximum Vacuum range to more than 500mmHg

	Aspiration > 40cc/mm
	Vaccum and Aspiration control linear or panel in perilstatic system
	Reflux gravity fed/ controlled by foot pedel
	Automated 1/V pole > 120cm or manual
3	Ultrasound: hand piece with 4-6 quartz crystals to deliver 28-40KHz frequency for consistant power
	Hand piece to be compactable with both straight and bend tips and non linear ultrasound mode of delivery
	Linear, burst, pulsed modes
	Micro pulse with pulse shaping technology
	Micro pulse technology to be available in both continuous mode of ultrasound and within pulse mode of ultrasound power system
	Phaco pulse frequency setting and duty cycle to be adjustable
	Hand piece to drive programmed duty cycle pulses
	Shorter, longer pulses and power pulses with adjustable numbers of pulses
	Occlusion mode may be programmable
4	Tube Packing Option
	Autoclavable Tubes – 20 nos. or Disposable cassettes -150 nos.
	If disposable packs 250 cost of 150 to be included
5	Anterior Vitrectomy probe with variable cutting and maximum cutting rate at least 600 cuts per minute
	Vitrectomy Probe to be reusable oscillating/guillotine style and autoclavable
	Foot pedal control
6	Diathermy Specification
	Power adjustment: 5-100% in 5% increments
	Power: 10 Watts
	Frequency > 35KHz
	Unipolar/ bipolar
7	LCD Display of Phaco emulsification power &vacuum rates
8	Memory: for different surgen's parameters
9	Foot Pedel- Programmable detents and side switches
10	20 laminar flow or equilent tips to be provided (10 tips of 15° and 10 tips of 30°)
11	Compactible sleeves and test chanbers 100 Wrench- 3
12	Online UPS to be supplied (Atleast 2 KVA with a minimum backup of 1 hr)
13	US FDA and European CE approved
14	Latest compatible model to be quoted
15	2 hand pieces, 20 autoclavable fluidics tubing packs or 150 disposable cassettes, 20 laminar flow tips and sleeves and 05 high speed Vitrectomy anterior cutter
16	2 years of warranty and 5 years CMC after warranty
17	Companies may quote unit price for all consumables separately for consideration of buying now and fix the price for warranty and CMC prices

Schedule: 3

Vitrectomy Machine

	VACUUM
1	Should have the facility to generate vacuum of up to 500 mmHg or more using peristaltic or venturi system.
	CUTTER
1	Should have the ability to drive vertical guillotine vitrectomy cutter minimum of 5000 cuts/minute.

2	Should have the 3-D technology to linearly control vacuum and cut-rate simultaneously in vitrectomy mode
	IOP CONTROL
1	Should have the capacity to compensate the infusion pressure constantly with results in a more stable IOP
	ILLUMINATION
1	The system should have dual port XENON/LED illumination.
	PHACO MODE
1	Should have the facility to drive Linear/Torsional / both Phaco, with 4 crystal Handpiece
2	Should have the facility to use variety of Phaco tips like, Kelman, ABS tips
3	Should have the availability of Linear, Pulse and Burst in Phaco mode
	MIVS
1	Should have the capacity to support MIVS options like 23 G and 25G
2	Should have a single entry system
	OTHER FEATURES
1	The System should have the Air Venting technology for control of intraocular pressure
2	The System should have the Automated Silicon Oil Injection Capability
3	The system should have Auto Fluid/Air Exchange.
4	Should have programmable footswitch with the facility to change procedural modes through footswitch.
5	Should have the facility of diathermy.
6	Should have the facility for the extrusion of sub-retinal fluid.
7	Should have programmability to store various parameters
8	Should have the availability of Linear, Pulse and Burst in Phaco mode
9	Should have the facility of fragmentation with the help of Ultrasound hand piece
10	25 G endoilluminator compatible with the machine (5 nos) (companies may quote unit price of all consumables separately for consideration of buying now and fix the price for warranty and CMC period)
11	23G endoilluminator compatible with the machine (5 nos) (companies may quote unit price of all consumables separately for consideration of buying now and fix the price for warranty and CMC period)
12	If disposable packs to be used, then 25 packs cost to be included. (Companies may quote unit price of all consumables separately for consideration of buying now and fix the price for warranty and CMC period).
13	If pack facility is not available then 23G cutter- 25 nos, 25 G cutter- 25 nos must be given with compatible Trocar Cannula and infusion line line (companies may quote unit price of all consumables separately for consideration of buying now and fix the price for warranty and CMC period)
14	23 G Vitreoretinal forceps for TLM peeling- 10 nos (companies may quote unit price of all consumables separately for consideration of buying now and fix the price for warranty and CMC period)
15	25 G Vitreoretinal forceps for TLM peeling- 10 nos (companies may quote unit price of all consumables separately for consideration of buying now and fix the price for warranty and CMC period)
16	European CE & US FDA Certificate
17	2 years warranty and 5 years CMC after that
18	Company should provide compactable air compressor to drive the vitrectomy machine, hose pipe of adequate length and regulator to fix the cylinder and air compressor both.
19	Online UPS to be supplied (At least 2KVA with a minimum backup of one Hour)

Schedule: 4

High end Colour Doppler System

High End 3D Color Doppler Equipment – 1 no

The equipment must be capable of operating in B, M, Doppler, Color flow and Power Doppler modes, Contrast microbubble ultrasound & 3D / 4D Volume Scanning capabilities.

It should support transducers with linear, sector and convex formats. Further, it must include a full array of measurement and calculation packages. The specific minimum requirements for this equipment are as follow.

1 User Interface & Ergonomics

1.1 The keyboard should have Height adjustment. The adjustment should also include Keyboard rotation Side to Side.

1.2 The system shall support backlight keys or provide an integrated light for ease of use in darkened work areas. The backlighting shall simplify ease of use and indicate function selected.

1.3 The system shall include at least a 19" LCD monitor for both excellent image viewing as well as providing for workflow and productivity features.

1.4 The LCD monitor shall be mounted on an articulating arm that moves side-to-side, forward and backward.

1.5 Deleted.

1.6 The system shall include a minimum 7 inch LCD with context sensitive menus to facilitate productivity as well as minimize training requirements.

1.7 The system shall have minimum Four active probe Ports in a convenient, easy to access location to maximize the availability of needed probes.

2 Productivity

2.1 The system shall offer an extended field-of-view imaging that operates by sweeping a transducer over the anatomy of interest. This mode shall build the extended field-of-view in a real-time manner, showing the image as it builds.

2.2 System shall have image management features that store images by patient and include the ability to review images from different exam dates.

2.3 System shall support the ability to store digital data in, that allows to optimize imaging arameters such as B Gain, TGC, Color Gain, Dynamic Range, Speckle Reduction levels, Doppler Gain, Doppler Base Line on old Images & old loops recalled from the image archive.

2.4 System shall allow for live image and archive images side-by-side or quad display on a single monitor. This display shall allow any type of image – B-Mode, Color, or power Doppler on either side.

3 Workflow

3.1 The system shall implement a feature, which enables to help streamlining the workflow. In particular the system should automatically invoke the correct mode and imaging parameter and advance to the next step within the examination with a one-bottom operation.

4 Realtime 3D / 4D Imaging Capabilities

5 Elastography should be available in convex, Linear and whole body convex Probe.

6 Contrast Ultrasound Capability (CEUS) with Times Intensity Curve Graphs.

7 Deleted.

8 Data Processing.

8.1 The system shall allow for Post-Storage image manipulation to provide maximum image flexibility, review and productivity. It shall include the ability to change all following on recalled old Stored Images/Loops :

a Overall B-Mode gain, dynamic range and gray scale maps.

b Overall Doppler gain, base line shift, sweep speed and inverted spectral waveform.

c Anatomical M-Mode

8.2 The system shall provide a display zoom function on frozen images.

9 Scanning Parameters

9.1 The system should have minimum 65,000 digital system processing channels.

9.2 The system shall possess the ability to control speckle through the use of a speckle reduction algorithm that enhances borders, reduces speckle artifact and improves detail and contract resolution in gray scale with compatibility in Color mode, 3D and side-by-side display. This feature shall have operator selectable settings and be capable of displaying in side-by-side mode with non-speckle reduced image.

9.3 The system shall provide the ability to scan in the compound imaging mode with up to 9 lines on all linear and convex probes.

9.4 The system shall provide scan depths from a minimum of 2 cm to a maximum of at least 30 cm.

10 B-Mode / M-mode Imaging

The system shall provide the capability for coded tissue harmonic imaging on all offered transducers.

The system shall have an ―anatomical‖ M-Mode – allowing the M-Mode cursor to be adjustable in any plane and allow for accurate measurements.

11 Color flow/Power Doppler

12 Spectral Doppler (PW)

13 Measurements and Calculations

13.1 Measurements should be possible on frozen images as well as on images recalled from the image archive.

13.2 The system shall provide a comprehensive set of obstetrical and gynecologic calculations and vascular calculations with summary reports.

14 Image Archive and Networking

14.1 The device should store images onto an integrated DVD-R Multridrive and a USB port storage device.

14.2 The system shall include at least 500 GB hard drive for large local storage capacity.

14.3 The device should store images in DICOM, JPG, WMV and AVI formats for maximum flexibility.

15 DICOM Connectivity

16 Transducers

a Convex, with biopsy attachment. Operating Frequency: 2 - 5 MHz

b Linear, with biopsy attachment. Operating Frequency: 5 – 10 MHz

c TCD Sector probe.

d Trans-vaginal Probe with Biopsy attachment, Frequency 3-11 MHz

e 3D / 4D Volume Convex Probe (To be quoted as standard)

f Pediatric micro convex probe for neurosonogram.

17 Suitable UPS for a 60 minute backup for whole system.

18 The system should be USFDA or European CE certified.

19 System upgradability option should be available for Fusion/ Navigation. It should also be upgradable to 3D endocavitary application.

20 Patient couch with 6 way movement and ergonomic operator chair (Optional Price should be quoted)

21 The bidder has to arrange for demonstration of the quoted model.

Added Para:

DICOM Connectivity should be a standard feature with the hospital network and a standalone PC (Windows based) with suitable DICOM viewer to be supplied

Added para:

1. Para 16 : Transducers (frequency tolerance of +/- 1 MHz applicable to all transducers)
2. Linear Probe of at least 9-18 MHz (Price should be quoted separately).

Schedule: 5

High Frequency X Ray Unit 800mA

	X-RAY GENERATOR:
-	High Frequency X-Ray Generator for Radiography
-	Power output of generator should be atleast 65KW.
-	mA Range (Rad.): 800mA.
-	KV RANGE (Rad.): 40 to 150 KVP
-	EMPOSURE TIME (Rad.) atleast 1ms to 3 Sec.
-	It should be able to deliver upto 500mAs or more
	CONTROL
-	It should be compact, Touch Control Panel having following functions:
-	The panel should be Floor/Wall mounted with Spill Proof design
-	Digital Display of KV, mA & mAs.
-	Tube focal spot selection Switch
-	Application selector switch for various application like table operation/vertical bucky/and applications without grid etc.
-	Anatomical Programming Radiography (i.e. APR) should be provided in which KV and mAs are automatically selected depending upon the physique of the patient and part of the body to be X-rayed.
-	A dual action band switch with retractable cord should be provided for Radiation Protection of Operator. There should be provision of a cordless Exposure switch also
	X-RAY TUBE
-	One No. Rotating Anode, Dual focus Thermally protected having focal spot 0.6 & 1.2mm
-	Anode heat storage capacity of the Tube should be 300 KHU or more
-	One No. Motorized collimator
	Tube Stand
-	3D ceiling suspended tube stand, must be actuator based to provide a noiseless and swift up/down movement of the tube head
-	The X-ray tube can be moved to any position of the room
-	It should have six way movements (longitudinal , transverse & vertical)
-	Tube Head Rotation (along its axis) : +90°
-	Tube Head Rotation (along with Column axis) : +90°
-	STD display should be available
-	Provision of auto centering table bucky centering. Electromagnetic locks and collision protection sensor should be available for safety purpose
	TABLE
-	Floating table with 6-way movement of the tabletop should be provided. Tabletop should be

	of carbon fiber material
-	Longitudinal movement of tabletop should be more than 400mm & transverse movement should be more than 160mm. It should have height adjustment facility
-	The table should consist of motorized bucky with Grid of size 17¼ " x 18 7/8 " and of Ratio 8:1/10:1, 85 lines/inch or more .
-	The Bucky should cover the entire length of the table and should be locked at any desired position by an Electromagnetic lock
-	The tabletop should be made of low radiation absorption, waterproof material
-	Table Accessories like stainless steel cassette tray, Compression band should be provided
	VERTICAL BUCKY:
-	Vertical Bucky stand should be with Reciprocating Grid of Ratio 8:1/10:1, 85 lines or more . The Bucky should move up & down & is equipped with a stainless steel cassette Tray. This stand should be Floor mounted type & can accommodate cassettes up to 14" x 17"
	OTHER REQUIREMENTS
-	One no. Servo Voltage Stabilizer with spike suppressor 150 KVA / Optional
-	Lead free apron – 3 Nos.
-	The company should be ISO-9001: 2008, ISO – 13485 :2003 company with CE Certified products.
-	The unit should have AERB Type Approval Certificate
-	The firm shall carry out Quality Assurance Test of the machine two years interval
-	The company should have a Local Service Centre.
-	The company should have a proven track record in Govt. Sector.
-	5 years for Comprehensive Guarantee for Complete System including X-ray Tubes
-	CMC charges should be quoted for 5 years after completion of warranty.
-	Lead glass for Control Room 50x50cm
-	2 Split AC Optional
	PRODUCT DATA SHEET:
-	All specifications to be provided with original product data sheet. All technical specifications should be supported with original data sheet highlighting the page number in the compliance sheet. Photocopy / computer print will not be accepted.

Schedule: 6

Operating Microscope- Neurosurgery

Microscope:

The Optics carrier should have latest technology of Horizontal Optics Technology. The Optics Carrier should be more smaller and more compact than the usual Surgical Operating Microscope
Brilliant Optics WITH OPTICHROME TECHNOLOGY
Motorised 6:1 zoom, activated through Hand switch, Footswitch and through control panel. Manually adjustable override.
Magnification range: 1.5X - 17.0X with 10X Eyepiece
Field of View diameter 12.5mm - 143mm with 10X Eyepiece
Motorised focus via multifocal lens from 200mm to 500mm, activated through Hand switch, Footswitch and through control panel. Manually adjustable override.
Wide range of Obsevation UPTO 3 OBSERVERS CAN VIEW SIMULTANEOUSLY
Optics with Stereo Base 24mm for natural three-dimensional vision
Modular configuration possible for each application (fully loaded or only selected parts attached)
Ideal for seated patient operations (e.g. Posterior fossa). NO NEED TO CHANGE OVER THE ACCESSORIES AND RE-BALANCING IS NECESSARY.
Control Unit with Graphic LCD data display with background illumination
Menu which provides up to 30 user-specific configuration with built-auto diagnostic system
The speed of the zoom & focus should adjustable via control panel
BrightCare- Automated illumination Brightness control is linked to working distance / Avoids accidental thermal injury by shortening working distance without lowering the height
AutoIris - Built in automatic zoom-synchronized illumination field diameter, with manual override and reset feature / Only exposes tissue to light, that needs light. Scatter light from retractors is often eliminated
Binocular tube - Binocular tubes features flexible butterfly ergonomic height adjustment for optimal body position at the microscope.
SpeedSpot™-Dual Laser focusing device for fast, precise microscope positioning

Illumination:

Continuously adjustable illumination field diameter upto 11mm
400 Watt Dual Xenon Arc-lamp illumination system and built in automatic lamp quick changer
Main Light Source - High-performance 400 Watt xenon arc-lamp through fiber optic cable
Emergency lamp - 400 Watt xenon arc-lamp on a separate electrical system
Should have two completely independent Power Suplly for Xenon lights systems.

Optional Accessories

IGS

Should have Open architecture for IGS Systems (Future on site upgradation should be possible)

Fluorescence (blood flow)

Should be Upgradable for blood flow fluorescence.

Fluorescence (Tumor resection)

Should be Upgradable for tumor resection

Mouth Control of Microscope:

Attachment system to enable mouth control the microscope during surgery

Stand System:

Floor Stand with Six electromagnetic brakes
Base - 720mm X 720mm with four 360° rotatable casters of 130mm diameter each, one central single-step foot brake
Extremely light movement and control of the optics carrier by 6 electromagnetic brakes
XY Movement - 100° lateral movement for the side ways for the very difficult Craniotomy cases & 150° inclination angle for the front to back inclination for the difficult Posterior Posa cases
once balanced the whole system should be able to move around with your two fingers on the hand switch
Range of Cantilever - Max 1925mm
Optics rotation 540°
Footswitch with 12 functions
The system should be A True Over Head Positioning
Weight - Approximately 310Kgs with fully loaded
Full Auto Balancing of the whole system - BACK UP, Should the Auto Balancing fails, the system can be balanced manually.
Inter-operative Auto balance - can be balanced during the case without breaking sterility by pushing a simple button

Must accessories

Stereo co observation system for the Cranial work
Face to face attachment for spine work

Must accessories Video/Photo

Camera independent from the microscope - The latest technology 3Chip Camera can be used.
Zoom Video Adapter - Independent Zoom and Focus is possible one the video adapter and TV monitor without disturbing the main surgeon.

High Difination Medical Device system with 24" built in Monitor

Burning DVD within 15minutes
Live duplicating - file storage on any of the external storage device viz., Pen drive, USB storage device etc.,
Dual Monitor Output
Fire wire input/output
More storage capacity
Slow Motion mode
Should have DICOM facility
Vascular Fluorescence ready

Miscellaneous

Asepsis for all controls and special objective protective glass
Also Laser Adaptability

Schedule: 7

OT Light – LED

Operating Room Surgical Lighting System should provide an ideal combination of brightness, maneuverability, and shadow resolution without sacrificing color accuracy through a consistent LED technology with a unique faceted reflector design technology.
Such Lighting System should have the following technical specifications:
Number of Light heads : Two per suspension
Color Temperature : 4300 k -4700 (±10 %) (White LED)
Field Size Diameter : 20 to 28cm (+/- 10%)
Depth of Field : 750 to 1100mm (+/- 10%)
Illumination Level : 160000Lux Major Dome & 120000Lux Minor dom
Controls : Control Panel (wall and on dome)
Rotation : 360 -330degrees
Sterilizable Handle : Yes
Light head area : 5000 square cm (+/- 10%)
Mounting Type : Ceiling
Supply Voltage : 230 VAC 50 Hz
Bulb Type : LED
Dimming Range : 30% - 80%
Operating/Storage Humidity : 10 – 95%
Life of Light Source : >40,000 Hrs
"There should be a provision to mount the camera in one dome.
Cra & Ra both should be > 95%"
Surgical Light System Should be compliant with relevant European CE /US FDA standards

Schedule: 8

OT Light – LED with monitor, camera & recording system

Operating Room Surgical Lighting System should provide an ideal combination of brightness, maneuverability, and shadow resolution without sacrificing color accuracy through a consistent LED technology with a unique faceted reflector design technology.
Such Lighting System should have the following technical specifications:
Number of Light heads : Two per suspension
Color Temperature : 4300 k -4700 (±10 %) (White LED)
Field Size Diameter : 20 to 28cm (+/- 10%)
Depth of Field : 750 to 1100mm (+/- 10%)
Illumination Level : 160000Lux Major Dome & 120000Lux Minor dom
Controls : Control Panel (wall and on dome)
Rotation : 360 -330degrees
Sterilizable Handle : Yes
Light head area : 5000 square cm (+/- 10%)
Mounting Type : Ceiling
Supply Voltage : 230 VAC 50 Hz
Bulb Type : LED
Dimming Range : 30% - 80%
Operating/Storage Humidity : 10 – 95%
Life of Light Source : >40,000 Hrs
"There should be a provision to mount the camera in one dome.
Cra & Ra both should be > 95%"
Surgical Light System Should be compliant with relevant European CE /US FDA standards

HD Camera System – 1080p

Description: Integrated In-Light Camera System should be integrated at the centre of one of the domes of this lighting system/ third arm in order to capture images & video sequences of the open cases. Such a autofocus – Locable camera should have the following specifications

Signal to Noise Ratio (S/N Ratio)	:	>50 dB
CCD	:	1/3”
Optical Zoom	:	10X
Digital Zoom	:	12-15
Video Output	:	**HD,** S-Video & Composite Video
White Balance & Gain	:	Automatic/Manual

HD LED FLAT PANEL MONITOR

Should be 32” Medical Grade High Definition Progressive Scan Flat-panel Monitors with ceiling mounted spring arm suspension to support high-definition/HDTV progressive Scan images and should be able to support and display DVI/HDTV, RGBHV, S-Video, Composite video signals. Aspect ratio 16:9/16:10. Resolution – 1920X1200.

The flat Panel suspension should be ready with the cables for integration of High Definition Digital (DVI/HDTV), RGBHV (High Resolution), SVHS (S-Video), Composite video signals to travel from the various sources of video like endoscopic camera, room camera, in light camera, high definition flat panel monitors, while assuring native resolution / signal.
Monitor should be European CE or USFDA approved

D. Recording system to be offered separately (Only for non-integrated OT’s)

Recording system to be offered separately. Recording system should be full HD medical grade monitor grade monitor LCD 19” touch screen having the one TB storage space. Should be European CE or USFDA approved

Schedule: 9

Electric Cautery/Electro Surgical Unit with Vessel sealing

1 Technical Specification

1.1 ESUs are used for surgical cutting and for controlling bleeding by causing coagulation (hemostasis) at the surgical site. They deliver high-frequency electrical current through an active electrode tip, causing desiccation, vaporization, or charring by resistive heating in the target tissue.

2 Operational Requirements

2.1 Microprocessor/Microcontroller technology

3 Technical Specifications

3.1 Integrated touch screen system with 300-400W output generator for monopolar cut, 100 - 120Watt for monopolar coagulation, bipolar cut 90-150Watt and Bipolar coagulation 90-120Watt and vessel sealing system for open and laparoscopic surgery with under water cutting current.

3.2 Should provide monopolar output for cut, coagulation (fulguration & spray) & blend in multiple levels

3.3 Should have bipolar cut and coagulation in multiple levels with automatic bipolar coagulation.

3.4 Activation by foot switch and hand switch for all the modes.

3.5 Activation of bipolar by foot switch

3.6 Capable of sealing vessels up to 7 mm diameter

3.7 Auto diagnosis on switching on and during working to continuously monitor all parameters

3.8 Automatic stoppage of output in case of malfunction with acoustic and visual signal with display of error code.

3.9 Output powers adjustable automatically or manually from the control panel.

3.10 Programmable memory for output settings
3.11 Should be usable with laparoscopic monopolar and bipolar instruments, for which programmes and accessories must be available
3.12 System for neutral plate safety by continuous monitoring of contact quality and connection
3.13 System for monitoring and control of leakage current
3.14 Frequency Leakage on the patient should be less than 10 micro Amp.
4 System Configuration Accessories, spares and consumables
4.1 System as specified
4.2 The accessories should include:
(a) trolley, qty 01
(b) Mains cable with power plug for standard Indian sockets, qty 01
(c) foot switches for different outputs, qty 01
(d) reusable neutral electrode for adults and children along, with cable for neutral electrode and fixation device wherever required, qty 03 each
(e) sterilisable re usable electrode handle with finger switch with cable for electrode handle, qty 05
(f) set of electrodes (4 different types) with electrode container with holder, qty 5 of each type
(g) tip cleaner, minimum 50 nos
(h) bipolar forceps (non stick) with cable, straight (small and large), and Bayonet (small and large), qty 02 of each type
(i) cable for connecting to standard mono polar and bipolar laparoscopic instruments, qty 02
(j) Reusable open surgery vessel sealer 2 nos. and reusable endosurgery vessel sealer 02 nos.
(k) Disposable open surgery vessel sealer 01 no. and disposable endosurgery vessel sealer 01 no.
(l) Price of all accessories and consumables including reusable and disposable to be fixed for 5 years.
4.3 The codes and rates of all possible individual accessories should be quoted separately with clear mention of period of validity of rates
5 Environmental factors
5.1 The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
5.2 The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
6 Power Supply
6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2 Suitable UPS with 30 min backup
7 Standards & Safety
7.1 Should be USFDA or European CE approved product
7.2 Manufacturer should have EN ISO certification for quality standards.
7.3 Complete system and all accessories mentioned should be from same make.
8 Training
8.1 Comprehensive training for staff of user department and support services till familiarity with the system.
9 Service
9.1 Percentage of uptime guarantee of the equipment during warranty and CMC period for which commitment is to be given must be specified with acceptance of applicable penalty clauses in case of failure to do so.
9.2 After sales service must be provided in the city of installation. In situations requiring service/repair of the unit outside the city of installation, the expenditure on account of this will have to be borne by the supplier
10 Documentation
10.1 Product Literature in original along with that of accessories and indigenous components if any. Photocopies/computer generated copies are not acceptable
10.2 Statement of compliance with tender specifications with clear and unambiguous links to relevant portions of product literature/authentic document, which should be highlighted. Alternatives

provided for noncompliant specifications with justification must be described in detail with supporting literature.

10.3 Certificate of compliance with standards and approvals stated above

10.4 Certificate of manufacturer/principal regarding authorization of service facility provided by the supplier

Schedule: 10

Electric Cautery/Electro Surgical Unit

1 Technical Specification

1.1 ESUs are used for surgical cutting and for controlling bleeding by causing coagulation (hemostasis) at the surgical site. They deliver high-frequency electrical current through an active electrode tip, causing desiccation, vaporization, or charring by resistive heating in the target tissue.

2 Operational Requirements

2.1 Microprocessor/Microcontroller technology

3 Technical Specifications

3.1 Integrated touch screen system with 300-400W output generator for monopolar cut, 100 - 120Watt for monopolar coagulation, bipolar cut 90-150Watt and Bipolar coagulation 90-120Watt .

3.2 Should provide monopolar output for cut, coagulation (fulguration & spray) & blend in multiple levels

3.3 Should have bipolar cut and coagulation in multiple levels with automatic bipolar coagulation.

3.4 Activation by foot switch and hand switch for all the modes.

3.5 Activation of bipolar by foot switch

3.6 Auto diagnosis on switching on and during working to continuously monitor all parameters

3.7 Automatic stoppage of output in case of malfunction with acoustic and visual signal with display of error code.

3.8 Output powers adjustable automatically or manually from the control panel.

3.9 Programmable memory for output settings

3.10 Should be usable with laparoscopic monopolar and bipolar instruments, for which programmes and accessories must be available

3.11 System for neutral plate safety by continuous monitoring of contact quality and connection

3.12 System for monitoring and control of leakage current

3.13 Frequency Leakage on the patient should be less than 10 micro Amp.

4 System Configuration Accessories, spares and consumables

4.1 System as specified

4.2 The accessories should include:

(a) trolley, qty 01

(b) Mains cable with power plug for standard Indian sockets, qty 01

(c) foot switches for different outputs, qty 01

(d) reusable neutral electrode for adults and children along, with cable for neutral electrode and fixation device wherever required, qty 03 each

(e) sterilisable re usable electrode handle with finger switch with cable for electrode handle, qty 05

(f) set of electrodes (4 different types) with electrode container with holder, qty 5 of each type

(g) tip cleaner, minimum 50 nos

(h) bipolar forceps (non stick) with cable, straight (small and large), and Bayonet (small and large), qty 02 of each type

(i) cable for connecting to standard mono polar and bipolar laparoscopic instruments, qty 02

4.3 The codes and rates of all possible individual accessories should be quoted separately and raised to be fixed for 5 years.

5 Environmental factors

5.1 The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
5.2 The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
6 Power Supply
6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2 Suitable UPS with 30 min backup
7 Standards & Safety
7.1 Should be USFDA or European CE approved product
7.2 Manufacturer should have EN ISO certification for quality standards.
7.3 Complete system and all accessories mentioned should be from same make.
8 Training
8.1 Comprehensive training for staff of user department and support services till familiarity with the system.
9 Service
9.1 Percentage of uptime guarantee of the equipment during warranty and CMC period for which commitment is to be given must be specified with acceptance of applicable penalty clauses in case of failure to do so.
9.2 After sales service must be provided in the city of installation. In situations requiring service/repair of the unit outside the city of installation, the expenditure on account of this will have to be borne by the supplier
10 Documentation
10.1 Product Literature in original along with that of accessories and indigenous components if any. Photocopies/computer generated copies are not acceptable
10.2 Statement of compliance with tender specifications with clear and unambiguous links to relevant portions of product literature/authentic document, which should be highlighted. Alternatives provided for noncompliant specifications with justification must be described in detail with supporting literature.
10.3 Certificate of compliance with standards and approvals stated above
10.4 Certificate of manufacturer/principal regarding authorization of service facility provided by the supplier

Schedule: 11

Ultrasonic cutting and Coagulation device

1 Description of Function
1.1 Ultrasound is the basis for an efficient surgical instrument: the cuts and coagulates by using lower temperatures than those used by electrosurgery or lasers. Controls bleeding by coaptive coagulation at low temperatures ranging from 50ºC to 100ºC: vessels are coapted (tamponaded) and sealed by a protein coagulum. It should have vessel sealing capacity up to 7mm or more.
2 Operational Requirements
2.1 The system should be used for Laparoscopic & open Procedures which should operate at the same frequency. The system should have open and laparoscopic probes for both ultrasonic & vessel sealing system.
3 Technical Specifications
1 Ultrasonic generator generating ultrasound frequency in between 35-70 KHz
2 Hand-piece with transducer & silicon cable
3 Capability of being operated by hand control or foot switch.
4 Single/Dual foot-switch attachment
5 Stand-by mode for better safety
6 System diagnostics and troubleshooting guide
7 Warning system for malfunctioning cable, probe etc (Audible/ Visual)
8 It should not interfere with other electromagnetic devices

9 It should have a horizontal/torsional vibration
10 Should be capable of sealing vessels at least up to **7mm** diameter
11 Should have different audible tone settings for different modes
4 System Configuration Accessories, spares and consumables
4.1.1 Accessories:
1. Foot-switch with cable.
2 Cart to house the generator and accessories
Open surgery instruments –
Coagulation shear straight 7mm dia **17 cm long**.-2 Nos.
curved coagulation shears. 7mm dia **17 cm long**.-2 Nos.
Endoscopic surgery instruments – 2 Nos. each,
a. Coagulation shear straight 7mm diameter 30cm-45cm long- 02 nos.
b. Curved Coagulation Shear,7mm diameter,30cm- 45cms long – 02 nos.
c. Price of all accessories and consumables including reusable and disposable to be fixed for 5 years.
6 Any Other compatible Accessories has to be offered if any
5 Environmental factors
5.1 Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC-directive.
5.2 The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
5.3 The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
6 Power Supply
6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2 UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up.
7 Standards, Safety and Training
7.1 The generator must be CF isolated applied device and defibrillator protection must be available.
7.2 Should be USFDA/ European CE approved Model
7.3 Manufacturer should have ISO certification for quality standards
7.4 Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450
7.5 Instrument should be upgradeable in case of any technology advancement free of cost. Handpiece should be warranted for 95 to 100 usages.
8 Documentation
8.1 User/Technical/Maintenance manuals to be supplied in English
8.2 Certificate of calibration and inspection.
8.3 List of Equipment available for providing calibration and routine Preventive Maintenance Support. as per manufacturer documentation in service/technical manual
8.4 List of important spare parts and accessories with their part number and costing
8.5 Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet.Any point ,if not substantiated with authenticated catalogue/manual, will not be considered. The equipment should be available for demonstration in case required
8.6 Bidder has to give demonstration of the equipment if required.
8.7 The equipment should have 95% uptime. If downtime exceeds 5 % in a calendar Year, Warranty will exceed for double the number of days.
8.8 Price to be quoted for each of the accessories & it should be valid for the entire warranty period.

Schedule: 12

Operating Table –Electro hydraulic

A General operating table features:

1 Full-length radio-translucent top.

2 4 or 5 sections tabletop, which should be made of a special scratch resistant, hardwearing and easy to clean material. Base column cover to be made of 100% stainless steel alloy and stainless steel.

3 Removable head and leg sections to suit different applications.

4 100% Kidney Bridge position should be obtained without moving the patient, through remote Control or by manual function.

5 Battery powered, with facility for connection to mains electricity for immediate use. Battery Exhaustion protection and low battery warning via an audible „beep"/display indicator should be available.

6 Table should not have a thread/sharp edge for ensuring proper cleaning and user safety.

7 Mattress should be of high quality that spans tabletop break for improved patient support. Its depth should be 50mm. Mattress must be Latex free.

8 The robust handset should offer 8 controls namely Trend. /Reverse Trend, Lateral Tilt, Flexion/ Extension and Height functions.

9 Brakes, 4nos Wheels

11 Table should have offset slim-line column, with S.S. Inverted telescopic covers, for superior imaging and access.

12 It should have a stable construction with 4nos Wheels of the base with large castors for easy motion and manoeuvring (base braking by locking the castors at the head end via a central foot pedal/ Hand control)

13 The table top should not be fitted with transverse members casting shadows on the X-ray images except for the release brackets for adjustment on either side.

14 The Table should be operated by the following operating elements: corded hand control, Manual override panel with manual /electric override facility.

B. Electrical specification:

Special-design, maintenance-free rechargeable batteries with capacity for about a week"s use in the operating room.

Recharging of the batteries and supply of the operating table by means of a mains cord

Nominal mains voltage (selectable) 220/230-240V AC via mains cord with inbuilt stabilizer

C. Technical Data:

Length : 2000-2100 mm

Width : 550-600 mm

Minimum height (without mattress): 650± 50 mm

Maximum height (without mattress): Minimum of 1050 mm

Maximum lateral tilt: 20-30 deg. (either side)

Trendelenburg: atleast 25deg

Reverse Trendelenburg : atleast 25deg

Head section adjustment : ±40-45 deg.

Leg section adjustment: +10 deg; to -90 deg

Break (extension) position : 200-220 deg

Break (flexion) position : 110-130 deg

Cranial & caudal traversing: 200-300 mm

Back section adjustment: 40-80 deg

Maximum patient weight : 250 kg or more

Technical Specification-

Accessories

Arm board - 2

Lithotomy leg holders "Geopel type" (adult and paediatric)-1set each
Body strap- 3
Anesthesia screen with clamps- 2
Side supports with clamps – 2
Knee crutches with clamps - 2
Clamp, rotary- 4 pc
Clamp, circular - 4 pc
Accessories stand, mobile on castors- 1 pc
Arm support, perplex -2 pc
Clamp for locking X Ray cassette -1
Accessories for operating in prone position
The table should be US-FDA or European CE approved product
For Electrical IEC 60101-1, medical/electrical equipment for safety, IEC 60601-2-46 for safety of OT tables and IEC 60601-1-2 for Electromagnetic compatibility

Added Para: **Prices for following OT Table accessories to be offered separately**

Accessories for 2 Nos. Neurosurgery OT Tables

i. Mayfield Skull clamp
ii. Cervical attachment
iii. Accessories stand

Accessories for 5 Nos. Orthopedic OT Tables

i. Radiolucent pelvis plate with orthopaedic extension
ii. Radiolucent attachment for hand surgery

Schedule: 13

GYNAECOLOGICAL OPERATION THEATRE TABLE

GYNAECOLOGICAL OPERATION THEATRE TABLE
1. 1 Operating tables provide an elevated surface that supports patient's body during surgical procedures, stabilising the patient's position and providing optimal exposure of the surgical field
2. 1 High quality suitable for gynaecological surgery with width 48-55cm, length 6-6.5 feet with stirrups for the support of legs and breakable on all table positioning mattress should be x-ray translucent. Should have all the accessories electro-hydraulic OT table with central controls. Should have semi-circular cut for perineal surgery
3.1 Operation table should be electrically operated with facilities of remote control along with manual back up and have the following specifications • OT table with 4 sections table top with divided foot sections • All table positioning i.e. height, back section, lateral tilt, trendelenburg and reverse trendelenburg. Upper movement should be achieved by pressing down on the foot paddle and reverse movement by lifting the paddle as well as by remote control • Manual position selector must be located on the head end of the table and should have provision to shift the position selector to the foot section also depending on the surgery • Gas springs should facilitate easy adjustment of the head and foot section • Battery powered with facility for connection to mains electricity for immediate use. Battery exhaustion protection and low battery warning via an audible "beep"/display indicator should be available • Table should not have a thread/ sharp edge for ensuring proper cleaning and user safety • Mattress should be of high quality span table top break for improved patient support. Its depth should be 50mm. Mattress must be latex free. • The casing on the frame and centre supporting column should be made of hygienic stainless steel of high grade rust proof quality(epoxy coated steel)

• Height 700-1050mm , trendelenburg/reverse trendelenburg equal to -25 to +25 degree, back section= -15 to+70 degree, side tilt= +/- 15 degree, leg section= -90 to 0 degree, gas spring assisted and detachable. Head rest= -45 to+25 degree, manually, gas spring assisted, detachable facility perineal unit • Mattress of antistatic PU integral. • Remote control and additional controls on table base for emergency • DC power back should be in built • Manoeuvre ability with basal frame with multiple mounting facility • Special design, maintenance-free rechargeable batteries with capacity for about a week's use in the operating room. • Recharging of the batteries and supply of the operating table by means of a main cord.
4.1 Should be supplied with following accessories • Padded arm-rest with straps paired with clamps • Side support paired with clamps • Shoulder supports paired with clamps • Knee crutches paired with clamps • Infusion rod with clamps • Drain tray • Anaesthesia screen with clamps – 2, Body straps- 3
5.1 Shall meet IEC-60601-1-2:2001 (or equivalent BIS) general requirement for safety for electromagnetic compatibility or should comply with 89/366/EEC; EMC-directive
5.2 The unit shall be capable of operating continuously in ambient temperature of 20-30 degreeC and relative humidity of 15-90%
6. 1 Power input to be 220-240 volts AC, 50Hz fitted with Indian plug via main cord with inbuilt stabiliser
6. 2 UPS of suitable rating with voltage regulation and spike protection for 60min back up.
7. 1 Should be FDA/CE approved
7. 2 Comprehensive training for lab staff and support services with familiarity with the system
7. 3 Comprehensive warranty for two years and five years CMC after warranty including UPS
7. 4 Electrical safety conforms to standards for electrical safety IEC 60601-1(or equivalent international/national standards). General requirement for electrical safety of medical equipment
8.1 User/technical/maintenance manuals to be supplied in English
8.2 list of important spare parts and accessories with their part number and costing
8.3 Compliance report to be submitted in a tabulated and point-wise manner clearly mentioning page/para number of original catalogue/ datasheet. Any point if not substantiated with authenticated catalogue/manual, will not be considered
8.4 Certificate of calibration and inspection
8.5 List of equipment available for providing calibration and routine preventive maintenance support, as per manufacturer documentation in service/technical manual,

Schedule: 14
ENT Treatment Unit (IMPORTED)

-Should have spacious instrument cabinet with surface in atleast two planes with removable containers.

-Storage compartment and space for function modules.

-Suction system adjustable automatic on and/off switching.

-Suction rinsing system for cleaning the nose system.

-Compressed air system, adjustable

-Warm water irrigation system with temperature display.

-Mirror pre heater.

-Integrated X-ray Viewer.

-Integrated holder for Endoscopes.

-Endoscope 90 degree for Laryngoscopy autoclavable- One No.

-0 degree 4 mm Nasal endoscope autoclavable- One No.

- 30 degree 4 mm Nasal endoscope autoclavable- One No.

-0 degree 1.9 mm to 3 mm, length 60 mm to 75 mm Oto-endoscope (Autoclavable)- One No.

- Single chip Camera head with camera control unit- One No.

-Monitor 22"LED- One No.

-Cold Light fountain Halogen 250 watts Built in spare lamp Light intensity, Adjustable in 3 step.- One No.

- Fibreoptic light cable dia 3.5mm length 180 cm.- 2 No.s

-Head light- One No.

-Battery operated head light- One

-Spraying device with a built in automatic micro switch and spray directly coupling With compressor motor for nasal and laryngeal spray..

- Doctor's Chair pneumatic operated with 4 to 5 wheels with break

- Patient's Chair- Electrically operated ENT examination cum treatment chair electrical/hydraulic height adjustment with foot switch control. The upper part of the Chair should be swivelling all around and fixable by a brake. The tall back rest is adjustable forward beyond vertical line and backward adjustable to varying degree to the desired position even slightly more than horizontal line-changing into a long and stable couch. The arm rests should be sturdy and can be swivelled off backwards. Width 60 cm or more.

- Power supply 220-240 volts/ 50 Hz.
There should be provision for upgradation.

Schedule: 15

General Surgical Instrument Set

The requirement consists of the following instrument sets:

1. General Instrument set – 2 Nos
2. Thoracaomy set- 1 nos.
3. Vascular surgery set- 1 Nos.
4. Wound retraction system- 1 Nos.
5. Flexible abdominal retraction system – 2 nos.

Specifications are as follows:

ufactures by reputed company with at least 10 yrs mfg experience in the market

perience in dealing with minimum of 20 Govt. reputed institutes

ve BIS/ISO/CE certification for quality of surgical instruments

Should have network all over India to be able to provide after sales service/replacement within 48 hours

Provide 5 years replacement warranty against manufacturing defects and quality defects

Vendor should produce all instruments in the sets as required for technical evaluation and user trial

Each Set should be supplied with stainless steel tray of appropriate size for sterilization of the instruments.

Black listed company is not be considered at all

Made from surgical grade chromium steel.

Should have dull matt finish.

Instruments should have tungsten carbide inserts for reducing wear and tear where ever indicated.

General instruments Set (X 2) Thoracic Set

Sr. No.	Nomenclature	Number
1	Sponge holder 22cm	2
2	Moynihan Towel Clip 10cm	8
3	Bard Parker Handel Size 3	1
4.	Bard Parker Handle Size 4	1
5	Curved Artery Forceps Box Joint 15cm	12
6	Straight Artery Forceps Box Joint 15 cm	6
7	Curved Artery Forceps Box Joint Halstead 12cm (Fine Tip)	6
8	Curved artery forceps with vascular atraumatic blades 22cm	6
9	Curved artery forceps 22cm	6
10	Halsted-Mosquito hemostatic forceps curved 12.5cm	12
11	Straight artery forceps	4
12	Skin Hooks	4
13	Langenbeck Right angle retractor large blade	2
14	Langenbeck retractor small blade	2
15	Deavers retractor – Set of four - different size	1
16	Kellys retractor broad blade	1
17	Kelly retractor narrow blade	1
18	Self retaining ring retractor with 6 blades	1
19	Malleable Copper retractor set of three	1
20	Single hook retractor	2
21	Double hook retractor	2
22	Duodenal Clamp	1
23	Non crushing intestinal clamps straight	4
24	Non crushing intestinal clamps curved	4

No.	Nomenclature	Number
25	Tissue forceps 15cm	1
26	Tissue forceps 22cm	2
27	Adsons toothed forceps 10cm	2
28	Plain tissue forceps 10cm	2
29	Toothed tissue forceps 15cm	2
30	Toothed tissue forceps heavy 22cm (bonneys)	2
31	Needle holder with TC inserts 22cm	2
32	Needle Holder with TC inserts 15cm	2
33	Needle holder with TC inserts 22cm fine tip	2
34	Metzenbaum curved on flat scissors with TC inserts 22cm	2
35	Metzenbaum curved on flat scissors with TC inserts 15cm	2
36	Mayo's Scissors heavy 22cm	2
37	Straight scissors heavy 22cm	2
38	Straight scissors fine 22cm	2
39	Right angle Mixter forceps 22cm	1
40	Right angle Mixter forceps 15cm	1
41	Right Angled atraumatic non c rushing intestinal clamp	1
42	Humbys graft harvesting handle	1
43	Instestine holding Forceps 18cm	2
44	Sinus Forceps 18cm	2
45	Sterilizer (Cheatle) Forceps	2
46	Probe, silver, 25cm	2
47	Proctoscope self illuminating with transformer	1
48	Doyan abdominal Retractor, 100mm wide blade, stainless steel	4
49	Doyan abdominal Retractor, 60mm wide blade, stainless steel	4
50	Shears, rib, combined action	1
51	Shears, rib with respatory, adult	1
52	Adson delicate tissue forceps 15cm	1
53	Allis Tissue Grasping forceps 5x6 teeth length 19cm	4
54	Allis-baby Tissue Grasping forcpes 4x5 teeth length 13cm	4
55	Babcock Grasping Froceps 5mm length 36cm with plastic handle without ratchet	2
56	Babcock intestinal and tissue grasping forceps Tungsten Carbide length 16cm	4
57	Babcock intestinal and tissue grasping forceps Tungsten Carbide length 20cm	2
58	Cushing Vein Retractor 14mm width length 20cm	2
59	Cushing Vein Retractor 18mm width length 20cm	2
60	Desjardins Gall Stone forceps 23cm	2
61	Suction Cannula 10mm width Length 23cm	2
62	Bakes dilator one set	1
63	Male urethral dilator (Clutton) one set	1
64	Female urethral dilators (Hegars) one set	1
65	Laheys dissecting forcepts set of three (Small, Medium, Large)	1
66	Kochers tissue forceps set of three (Small, Medium, Large)	1
67	Aneurysm needle	1
68	A traumatic rectal forceps 28cm one set	1
69	Bowls 2 small (Height - 40mm & Diameter - 80mm)	1
70	Bowls 2 large (Height - 55mm & Diameter - 128mm)	1
71	Kidney tray large	1
72	Suitable container for instruments	1

Thoracotomy Set

Sr. No.	Nomenclature	Number
1	Periosteum elevator (Straight)	1
2	Tooth Forceps 28cm	2
3	Plane Forceps 28cm	2
4	Needle Holder with TC inserts 28cm	2
5	Needle Holder with TC inserts Fine tip 28cm	2
6	Lung retractor - Allison	2
7	Curved Artery forceps with vascular atraumatic blades 22cm	6
8	Tracheal retractor	1
9	Scapula retractor	1
10	Heavy needle holder 22cm	2
11	Rib Respiratory	2
12	Rib cutter	21
13	Rib Retractor (Large)	1
14	Rib approximotor	1
15	Lung holding forceps 2.5 cm wide 20.5 cm long	2
16.	Tracheal dilator	1
17	Tracheal hook	1

Vascular Surgery Set

Sr. No.	Nomenclature	Number
1	Vascular forceps with TC Inserts 22cm	2
2	Vascular forceps with TC Inserts 15cm	2
3	Satinsky vascular clamps 22cm	2
4	Dabakey vasculat clamps 18cm	2
5	Bulldog vascular clamps 5cm, 3cm, 2cm, 1cm	2 each
6	Needle holder with TC inserts 15cm	2
7	Needle holder fine with TC inserts 22cm	2
8	Needle holder fine with TC inserts 15cm	2
9	Needle holder TC inserts 22cm	2
10	Castrovijo needle holder 15cm	1
11	Potts Smith scissors 19cm 45 deg angle	1
12	Satinsky Vena Cava Clamp 5 x 13mm length 25cm	1

Specification of Wound Retraction System

Sr. No.	Nomenclature
	It should have flexible ring for retraction having slots for the elastic hooks.
	It should be supplied with following elastic hooks :
	- Twin stay, 4 hook (2 /pack) - 5 mm semi-blunt (8/pack) - 5 mm sharp hook (8/pack) - 3 mm sharp hook (8/pack) - 5 mm blunt hook (8/pack) - 12 mm blunt hook (50/pack) - 5 mm, 7mm, 10mm two finger (4/pack) - 6.5mm, 13 mm solid blade (4/pack) - 14mm two finger, 20mm four finger (4/pack)

Specification of Flexible Abdominal Retraction System

Two sets

Sr. No.	Nomenclature
	The system should be self retaining, rapidly installable and serve to retract abdominal wall and viscera. The system should consist of the following:-
	1. Table fixation arm 35 to 40cm long. 2. Horizontal bar with ball joint 35 to 40cm. 3. Horizontal bar rigid 35 to 40cm. 4. Extension bar 35 to 40cm. 5. Coupling device. 6. Retractor blade holder and tilt retractor blade holder. 7. Ring segments 100mm, 150mm & 200mm 8. Rings small 20 to 35cm, medium 25 to 50cm and large 30 to 50cm. 9. Scoville hook 50mm & 80mm. 10. Meyerding retractors small, medium and large. 11. Malleable retractor small, medium and large. 12. Harrington blades small, medium and large. 13. Kelly retractor blade small, medium and large. 14. Balfour bladder blade. 15. Gelpi point retractor. 16. Vaginal retractor blade. 17. Deaver retractor blade. 18. It should be provided with container for storage, transport & sterilization. 19. It should be made up of high quality of stainless steel with a guarantee for 5 yrs. 20. It should be supplied with all accessories required for different use of these instruments. 21. It should be CE mark.

Schedule: 16

Video Endoscope System under GIP Pediatrics Surgery

COMPLETE SET OF ENDOSCOPE & COLONOSCOPE:			
Specifications of Video Endoscope System (Upper GI & Lower GI)			
VIDEO GASTRO SCOPE:			
Angle of view (Degree)	120 Degree		
Depth of Field (mm)	4-100 mm or better		
Insertion tube Width (mm)	5.4mm or less		
Instrument Channel tube (mm)	2.0 mm or less		
Tip Deflection (Degree) Up/Down	210/120 Degree or better		
Right/Left	120/120 Degree or better		
Working length (mm)	1100 (mm) or more		
Total Length (mm)	1400 (mm) or more		
VIDEO COLONO SCOPES			
Angle of view (Degree)	140 Degree		
Focal Range (mm)	3-100 mm or better		
Insertion tube Width (mm)	11.6 mm or less		
Minimum Instrument Channel tube(mm)	3.8mm or more		
Tip Deflection (Degree) Up/Down	180/180 Degree or better		
Right/Left	160-160 Degree or better		
Working length (mm)	1700 (mm) or more		
Total Length (mm)	2000 (mm) or more		
VIDEO PROCESSOR (100-300 watt xenon)			
Colour System	Single-CCD color		
Lamp	100-300W Xenon Lamp Short arc		
Video Output	2RBGS Connections,2 Y/c Connections, I Composite Video Converter		
External Device Controller	1 Printer Control Connector,2 External Device Connector		
Digital Output	1 Serial Connector		
Power Requirements	Voltage	230V (pal)	120 V (NTSC)
	Frequency	50/60 Hz	
	Power Consumption	2.0A	1.0A
VIDEO PROCESSOR SHOULD HAVE FOLLOWING:-			
Compact Lightweight digital Video Processor high Resolution large screen Images			
Should be compatible with leakage tester			
Unit Should be compact and light weight			
Lamp can be turned on/off without turning off the equipment			
Monitor: Should be provided with Medical Grade Monitor 21"			
Should be provided Leakage Tester for leak testing-01 no.			
Should be provided Endoscopy Trolley- 01 No.			
Should be quoted with Biopsy Forceps- 02 No's			
Should be quoted with Mouth Guard- 02 No's			
The unit should have European CE/USFDA approved.			

Schedule: 17

SPECIFICATIONS FOR 128 SLICE MDCT WITH INDEPENDENT 64 OR MORE ROWS OF DETECTOR

The system should be latest state of art, 128 slices or more slices CT scanner with a single source dual energy capabilities. The model quoted should be AERB Type approved and US FDA and European CE certified. The essential requirements of the system are as follow:

S.No	Detailed Technical Requirements
1	X-ray Generator: High frequency, with power output of 80 KW or more to support continuous and sustained operation. Minimum continuous scan 150cm or more should be possible to cover more anatomical area.
2	Single Source dual energy capability as standard The quoted system should have dual energy capability and all the possible applications must be mentioned clearly as standard part of software. The system must have dual energy capability and the following applications should be available.
a)	Differentiation of brain hemorrhage from contrast enhancement.
b)	Virtual NCCT for brain.
c)	Mono-energetic imaging for beam hardening artifact elimination. Contrast augmentation & tissue visualization with Mono-energetic images.
d)	Characterization of Renal Calculi & differentiation of Uric Acid and Calcified Stones
e)	Characterization of Gout - Application for visualizing deposits of uric and crystals.
f)	Lung perfusion using dual energy.
3	X-ray Tube:
a)	Tube Current: minimum range 20 - 600 mA.
b)	The system should have mechanism for real time mA modulation for both Z - axis and angular dose modulation for both 2 - axis & angular doses modulation.
c)	Tube Voltage: Minimum range 80-140 kV.
d)	Should have either anode heat storage capacity of 7.5 MHU (or more) or alternatively the tube should be with a very high heat dissipation rate (Direct Anode Cooling Technology or equivalent, facts to be supported by Datasheet).
e)	The X ray tube should have a cooling rate of 1000 KHU per min or more.
f)	Filter and beam limiting devices: The Al equivalent (at least 5mm) and other specific features to reduce radiation dose to the patient must be specified.
g)	Specify focal spot size and number according to IEC recommendations.
4	Gantry:
a)	Aperture: 70 cm or more.
b)	Tilt: +20 Deg
c)	Entire range of rotation times for full 360 degree should be 0.40 seconds or less for excellent Cardiac Acquisition & Whole Body Applications.
d)	Remote controlled tilt from operator table should be possible.
e)	FOV should be at least 50 cm.
f)	Integrated Display Panel - Gantry front showing current scan parameters such as kV, mA, ECG trace etc. for easy set up for ECG gated studies.
5	Patient Table:
a)	Should be able to bear 200 kg or more with 1 mm positioning accuracy.
b)	Table speed: Horizontal - Up to 100mm or more/sec.
c)	Vertical table travel: range should be specified.
d)	Scan range: should have at least 150 cm metal free scan able range.
e)	Facility of positioning aid for horizontal iso-centric positioning of the patient.
6	Spiral CT capabilities:
a)	Minimum slice thickness should be 0.625mm or less

b) Pitch factor (volume pitch): Variable between 0.5 to 1.5 or more and should be user selectable. Specify all possible pitch selections.
c) Gapless spiral length: 150cm or more.
d) Single continuous 'spiral-on time' should be minimum 60 seconds or more.
e) Gapless spiral acquisition should be possible.
f) True isotropic volume acquisition and sub-millimeter resolution of at-least 0.4 mm for all body application.

7 Topogram:
a) Length and width: specify range.
b) Scan times: specify range.
c) Should be possible to interrupt acquisition manually once the desired anatomy is obtained.

8 Data acquisition system:-
a) System should have minimum 64 rows of detector capable of generating 128 slices through latest flying focal spot technology or equivalent (mandatory requirement).
b) Mention minimum acquired slice thickness in Axial & Helical mode after reconstruction.
c) Acquisition of cardiac images with ECG gating (prospective & retrospective) should be possible.
d) Step and shoot technique during cardiac scanning for dose reduction, or a similar alternative technology should be available.

9 Image Reconstruction:-
a) Real time reconstruction speed: 20 images per second or more at 512 x 512 matrix.
b) Display matrix: 1024 x 1024 or more.
c) Reconstructed slice thickness range should be less than one mm (<1) to 10mm.
d) Specify scan field and reconstruction field.

10 Workstations:

A multimodality client server architecture based solution with minimum concurrent 30000 slices rendering capacity (Intellispace Portal 6/ Dexux-AW server 2/ Syngo Via 30A etc), with 64GB RAM with storage of minimum 2TB and Additional storage of 10 TB on the server , having following client hardware specification- Workstation:Z820 or equivalent CPU, dual quad core processor, 16 GB RAM, 1TB hard drive, DVD Writing with clinical grade monitor of minimum 3 MP (braw or equivalent) / & 5 button mouse (logitech or equivalent). A reputed Anti-Virus Solution for Server should be in place. The Server should be with minimum three concurrent user (Three Hardware)facility. All the three workstation should have following processing tools-software's Available as standard-:

Multi planar reconstruction (MPR).
Minimum and Maximum intensity projection (Min IP & MIP).
3D Volume rendering.
Auto Bone Removal.
Volume measurement.
Following applications on two concurrent users:
Advance Vessel Analysis with Plaque visualization
Colonography.
Perfusion CT.
Image Fusion of CT, MR & PET Data.
CT angio, CT whole brain perfusion with stroke protocol.
Neuro DSA.
Coronary tree analysis: automated 3D processing of coronary arteries, calcium scoring, stent analysis LV analysis.
Multi-modality automatic tumor tracking & Automatic measurements in RECIST, WHO, Volume & Choi criteria calculation.
Virtual endoscopy/ Fly through.
Lung nodule evaluation.
It should be possible to carry out hard copy film archiving and soft copy archiving on CD/DVD in form each work station. Mutisession archiving on CD/DVD should be available.

11 Image Evaluation Tools:-
a) Parallel evaluation of multiple ROI in circle, irregular and polygonal forms.
b) Statistical evaluation for area/volume, S.D., Mean, Min/Max and histogram.
c) Distance and angle measurement, freely selectable positioning of co-ordinate system, grid and image annotation.
12 Latest Iterative Reconstruction Technique:-
a) ASIR / iDose4 Premium / SAFIRE to be quoted as standard.
b) Low dose protocols for pediatric scanning.
13 Patient Communication System:
An integrated intercom and automated patient instruction system (API) should be provided.
14 Image Quality:
a) Low contrast resolution: Low Contrast Delectability: The low contrast resolution for CATPHAN should be at least 5mm at 3 HU with 10mm slice on 20 cm CATPHAN Phantom.
b) High contrast spatial resolution should be not less than 17 lines pair per cm or higher maximum at 0% MTF X-Y axis for FOV not less than cm. Specify the same at 10% MTF.
15 Image Documentation & Archival:
a) The CT should be DICOM 3.0 ready.
b) Filming parallel to other activities, including independent scanning, documentation and post-processing and configurable image text.
c) System should be capable of integrating with any PACS/HIS system. The system should be DICOM - ready with true isotopic volume acquisition and sub millimeter resolution.
16 Accessories to be provided:-
a) One dry chemistry camera with resolution of 500 dpi or more. The unit should be digital DICOM 3.0 complaint.
i. The camera must be able to process up to 100 films/hour (min.) depending on the size.
ii. The system must deliver its first film within 80 seconds from request.
iii. The system must have contrast resolution of 16 bits/pixel or more.
iv. The system must have at least three online film sizes, and should be capable to print on any of the 8x10, 10x12, 11x14, 14x14, 14x17 sizes.
v. The system must not involve any wet process and must give a dry film in single stage (without any users intervention) functionally.
vi. Start up time should be less than 10 minutes.
vii. Easy day light loading.
The system should be freely configurable by the user, to use any of the above mentioned size. The camera should be networked to other equipments installed in the department, as specified.
b) Suitable Dual Head pressure injector, with complete accessories & 50 sets (Each set having 2 syringes), tubing and connector. Kindly quote the rate of syringes, tubing and connector for future supply.
c) Ultra thin x-ray film illuminator - triple panel : two in number.
i. Ultra Thin X-Ray Film illuminator - using LED Lamps.
ii. The Thickness should be less than 25mm.
iii. It should be Suitable for viewing three 14" x 17".
iv. It should have LED Lamps having life-span of more than 100,000 hours.
v. It should have easy insertion & removal of the film.
vi. It should have homogeneous illumination & having luminance of more than 1200 cd/m2.
vii. It should have separate On-Off function & separate rotary continuous adjustable brightness control as the bottom of each panel for convenient operation.
viii. It should have fully electronic continuous brightness control, with adjustment range of approximately 90%.
ix. It should be directly connectable to power supply without any external adaptor.
x. It should have Flicker free light for protection against power surge.
xi. It should have external fuses for protection against power surge.
Manufacturer should be ISO 9000 certified.

d) UPS for the complete system and all accessories. It should be possible to run system and all accessories for at least 15 minutes.
e) One set of standard patient positioning accessories and restraining devices.
f) CD/DVD writing facility with 1000 compatible DVDs.
g) One collapsible wheel chair with rubberized swivel wheels.
h) Lead glass (2 mm thickness/as per the AERB guidelines for the equipment): 150 x 100 cm.
i) Premium ultra-light lead aprons: 2.
j) Thyroid collars: 2.
k) Gonadal shields: 2 each for male and female pediatric patients (total 4).
l) Lead apron hanger (for hanging two premium lead aprons): 1.
m) Two Light weight stainless steel stretchers with wheel locks.
n) One anesthesia machine with one multi parameter monitor (having provision for ECG, Spo2 and NIBP monitoring) to ensure smooth completion of cases under general anesthesia.
The technical features of anesthesia machine should be as under:
1) Colour coded gas supply hoses for Oxygen & N2O (pipeline).
2) Two (2) tube rota meter and anti-static coated rota meter.
3) Oxygen pressure operated pneumatic N2O cut off system.
4) Audio alarm for Oxygen failure.
5) Lever operated anti-hypoxic device.
6) Emergency Oxygen flush.
7) Large antistatic stainless steel castor wheels.
8) Two numbers of Oxygen outlet: one for ventilator & other as auxiliary outlet for humidifier.
9) Provision to mount one selectatec type vaporizers.
10) Provision to mount Oxygen & NTO pin indexed cylinder with gauges.
Technical Specifications for Isoflurane Vaporiser
1) Should be temperature & flow compensated.
2) Should be selectatec type with Key filler.
3) The Vaporizer design should be maintenance free, should not require periodic overhaul.
Technical specifications for multiparameter monitor:
1 The equipment should come with all standard accessories required to run all parameters, suitable for all patient categories, ie. Infants, children and adolescents.
2 Digital display with parameters monitored: ECG, Heart rate (HR), respiratory rate (RR), Oxygen saturation (SpO2), Non Invasive Blood Pressure (NIBP).
3 The monitor should be upgradable to one (1) IBP monitoring.
4 The monitor should be HIS/HL7 compatible.
5 Medical grade, TFT Flat screen, slim size, at least 10 inch display.
6 Heart rate/ECG should be monitored using at least 3-lead selectable ECG system with built in arrhythmia monitoring in all leads, heart rate range: 30-300 beats per minute and in built ST segment analysis and arrhythmia detection facility.
7 Respiratory rate should be measureable by transthoracic impedance using the same ECG lead with respiratory rate range: 6 to 120 breaths per minute (bpm) (Accuracy ± 2 bpm).
0) Patient monitor camera for patient visualization within the gantry from console room.
p) The system should have a wide installation base in Government/Private institutes of repute. Kindly mention the names of the unit offered should be clearly mentioned.
17 Upgrading requirements:-
A free, comprehensive software update (compatible with the existing platform) guarantee for at least 10 years must be provided.
18 Warranty and CMC:
A. The system, including all components, all accessories, and entire turnkey work should be under complete replacement warranty for five years from the date of issue of installation certificate.
B. Comprehensive Maintenance Contract (CMC) for the whole system, including all components, all accessories, and entire turnkey work for 5 years should be quoted after warranty.
19 GUARANTEE

A. Principal and India counterpart. The principles should be responsible for any lacuna or deficit it in service or supply.

B. 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, hardware or any other accessories.

C. Software upgrades (where hardware upgrades are not required) like new application package etc. 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 stays updated with similar products for at least 5 years.

20 WARRANTY PERIOD

A. The equipment should have 60 months warranty from the date of handling over the fully functional unit and the accessories supplied (such as UPS, AC, Generator, etc) to the hospital against manufacturing defects of material and workmanship.

B. 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.

21 POST GUARANTEE COMPREHENSIVE MAINTENANCE CONTRACT (CMC)

A. The post -warranty (after 5 years) CMC should be comprehensive and should include labour + spares for the complete system which includes all the accessories supplied such as UPS. Generator, AC, etc. including all consumables required for proper functioning of the equipment and accessories supplied, like batteries for UPS etc.) and maintenance for another 5 years. The CMC should be quoted in Indian Rupees.

B. The price of post warranty 5 years CMC shall be taken for price comparison

C. The desired up-time during post-warranty CMC is 95% of 365 (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.

D. The insurance should be done by the bidder to cover the losses, if any, due to force major conditions till the equipments is delivered to the hospital.

22 SPARES

Please attach a complete list of spares which would be provided with the equipment.

23 TRAINING

On site training of all faculty members and radiographers.

On site training for radiographers and other staff by an application expert for at least 3 months.

One on site engineer to be available for a period of six months.

24 Deleted

25 GENERAL CONDITIONS

A. The technical and financial bids should be separate.

B. 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.

C. The system should incorporate all the features as per the December 2013 RSNA.

D. Valid Certificate permitting sole distributorship, from the unit manufacturer, mentioning the name of the equipment should be submitted.

E. Valid Certification that the supplier has the capability for corrective and preventive maintenance of the unit, for the next 10 years after installation, from the principal manufacturer.

F. The manufacturer must have local service facility. The service provider must have necessary spares and equipments recommended by manufacturer to carry out maintenance and preventive maintenance expeditiously.

G. Certificate's of training from principal for local engineers/maintenance service personnel in India in the model offered along with a list of names and contact telephone numbers of nearest service engineers to be contacted in Delhi. Any change in names and tel nos. should be informed immediately to the department and institution).

H. To provide, Contact telephone numbers, email address and mailing address of the overall incharge of Head Office in Delhi or North Zone, to lodge complaint regarding efficiency of performance of the local service engineer deputed for the machine.
I. All product catalogues are to be submitted in original.
J. A list of all installations of the quoted system in the country should be submitted.
K. 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.
L. System should be DICOM - 3MPPS & should be ready to integrate with any existing PACS/HIS System.
M. 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.
N. 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.
O. All local items should be quoted in Indian Rupees. Other item should be quoted in US Dollars only, to have uniformity.

Partial Turnkey:-

The following would be provided by the consignee

1 Bare Walls
2 Power Supply - Till the complex, requirement to be communicated by the vendor.

Turnkey Specifications

General:

a. The CT scan unit is to be installed on turnkey basis.
b. The layout plan and other site requirements are to be finalized in consultation with concerned hospital authorities.
c. 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.
d. The CT Complex will comprise of various rooms like CT Examination room, console room, reporting room, changing room. Recovery room. Recovery room, technician's room, electrical equipment and UPS room and any other required room for CT facility.
e. The site works will be as per approved plan.
f. During construction, minor modifications can be permitted by the user department of the hospital for more efficient utilization of space and resources.
g. All AERB requirement shall be complied with

Site Preparation Work

All items to be used should be of very good quality and are to used only after the approval is granted by the department or other relevant hospital authorities. In case the same is not done, the vendor shall have to dismantle the existing material and carry out fresh work at his own cost.

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 and other items
e. Miscellaneous

a) CIVIL WORK:

i. All dismantling and reconstruction to be done per approved plan by the Institute.

ii. Vitrified non-slippery tile (Kajaria make or equipment) wall to wall including dado up to ceiling height including the imaging station except toilets which should have granite.

iii. Metallic powder coated false ceiling with proper insulation (make to be approved by Engineering department) should be provided in the entire CT complex.

iv. Doors leading to CT examination room should be lead lined laminated doors with hard board wooden frames.

v. 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.

vi. All fluorescent lights and smoke detectors to be accommodated/ integrated in the false ceiling.

vii. All the rooms in the complex will be signposted. Sun-film and Venetian blinds be put in all windows.

viii. Piped in anesthesia gases/ central oxygen supply and suction to be provided in the gantry and patient preparation room.

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 make and shall be provided by the vendor. (Any specific requirement to any kind if required shall be the responsibility of the tendering firm). Power cable shall be provided by the institute to the Distribution panel upto the point specified by the vendor.

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 should not be affected by frequent on and off.

Following is the broad list and specifrications of the electric items required for various installations in the radiology department any item used in this turnkey work shall follow the same. Turnkey document should mention which of the following item shall be used. Any item used, which is not included in the list given below should also be mentioned. The electrical work shall include the following:

i. Wiring - the wires shall be of copper of different capacity as per the load and should be Renowned make like Finolex, Polycab.

ii. Switches, light and power points should be of modular type and of make carbtree / North West.

iii. General lights - Mirror optical type 1 X28 W or 2x28 W/CFI fitting 2X36, 3X36 W with electronic ballasts Philips/Crompton/Kesselec-Schreder / Wipro make.

iv. The underground cables supplying the electricity load should be of Havells/Ecko/Polycab.

v. MCBs/ACBs/MCCbs should be MDS/SIEMENS/ABB/L & T.

vi. Roof light CFL down lighter of PHILIPS/OSRAM/ WIPRO.

vii. Main switchgears, fuse units should be L & T/SIEMENS/GE.

viii. Telephone cable should be of FINOLEX & R.R. cables.

ix. Electrical load of the system to be added as per the tender/brand of the equipment.

x. Different parts of the complex will have separate wiring for light and power circuit through MCBs of suitable capacity.

xi. Adequate safety measures will be incorporated in the electrical power supply system.

xii. Dedicated isolated earthing is to be provided for the equipments.

xiii. Audio call bell with intercom and remote locking/unlocking facility provided at the main door of the Complex.

xiv. Dismantline of old electrical material to be done by the agency and rebate on old dismantled material should be taken.

AIR CONDITIONING:

The vendor must install adequate airconditioning capacity to ensure a constant temperature of at least 18 degree centigrade in the Gantry room and 20 degree centigrade in rest of CT complex at all times when the unit is under use. The tender bid document must clearly specify the capacity being installed to ensure above. In case any additional capacity is required during the warranty and CMC period of the equipment. The same shall be arranged by the vendor only.

i. All weather AC with cooling, heating and humidity control capabilities is to be provided.
ii. Air flow in various rooms should be adjustable to have some degree of control over temperature in different rooms of the complex.
iii. The AC units(s) shouldl be microprocessor controlled for adequate temperature control.
iv. Separated split type Acs of suitable capacity to be provided in the console room and the radiologist room (to save electricity when only one/two rooms are being used during off working hours).
v. 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 glavanized Iron of TATA make. The grating shall be brass chrome plated.

All faucet/bathroom fittings/sanitary fittlings etc. should be of Koehler or equivalent make.

d) FURNITURE AND OTHER ITEMS:

All furniture items to be of Godrej interio or similar reputed make.

i. Premium executive office Chairs:
ii. Office desk (Minimum size 1500x750x740mm) with three drawer pedestal and provision for housing ket board and CPU underneath the work surface:
iii. Storage Alimrah:
iv. Open storage racks, 8ft high:
v. Personal Locker Units, steel make, height at least 6 ft. 4 lockers in each unit:
vi. Digital weighing scale:

e) FIRE FIGHTING SYSTEM

A state of art fire fighting system with alarm and smoke detectors to be installed and connected to main control of hospital.

f) RADIATION SAFETY

i. The equipment shall be installed as per AERB guidelines.
ii. Lead lining of the walls and doors as per the requirement of the AERB.
iii. High quality signages related to Radiation safety to be made and posted as per AERB guidelines.
iv. The entire work related to radiation safety, approval of installation from AERB is to be done as specified by the Physicist/RSO of the department and under his control and supervision.

g) MISCELLANEOUS:

i. One channel stereo musical system inter-room communicating system connecting the reception counter with other cabins of the MRI complex, 10 lines with 2 incoming.
ii. The outdoor units of AC should have grill coverings to prevent theft of copper pipes etc.

The whole turnkey package as above should be under guarantee / warranty under the same terms and conditions as per the CT scan unit. CMC of the whole AC package system and turnkey work after the expiry of guranatee / warranty shall be covered along with CT scan unit.

Schedule: 18

Endoscope system of Neurosurgery

1 Description of Function
1.1 Neuroendoscope is a small device that allows the identification of the anatomy of the brain's ventricular system. It aids the neurosurgeon in placing the shunt
2 Operational Requirements
2.1 Neuro-endoscope should be lightweight and dedicated to Neurosurgery cranial work.
3 Technical Specifications
3.1 Connecting piece for fixation for operating sheath to endoscope holder- 1 no.
3.2 Wide angle forward oblique telescope 30 deg., enlarged view, dia, 4mm length 18cm autoclavable fiber optic light transmission incorporated, preferably color-coded.
3.3 Operating sheath preferably with valve, Outer Dia. 6.8 mm with graduated scale with lateral stopcock and inlet for catheter, with obturator and obturator for stereo-tactic positioning- 1no.
3.4 Sheath for use of 30 deg., 70 deg. diagnostic telescope through operating sheath - 1 no.
3.5 Scissors, single action jaws, pointed, diameter 2-2.5mm length 30cm - 2 no.
3.6 Biopsy forceps - 1 no.
3.7 Grasping forceps with teeth fine size- 1 no.
3.8 "Biopsy punch forceps single action jaws fine size working length 30cm - 1 no. Instruments should preferably be rotating type"
3.9 Puncture needle- 1 no.
3.10 Irrigation tube autocalvable with luer lock connection- 1 no.
3.11 Coagulating electrode, bipolar 5 fr - 2 no.
3.12 Bipolar cord - 4 no.
3.13 Straight forward telescope 6 deg., enlarged view, autoclavable, with angled eyepiece, with instrument channel dia.3mm fiberoptic light transmission incorporated, preferably color coded.
3.14 Universal table holder, multi-articulated should have three or more joints with 360deg. of freedom with holding device.
3.15 High Definition camera with resolution 1920x1080p integrated image processing module, color systed: Pal, power supply: 100-240 VAC, 50/60 Hz, including: 3 chip CCD HD camera head with optical zoom lens, Camera control unit with integrated image processing module, connecting cable length 180 cm, connecting cable set length 180cm, key board or touch screen controlled camera console, 2 connecting cables, for connecting video-printers or recorders- 1 no.
3.16 Xenon light source 300watt with color temperrature 6000 K light intensity manually controlled - 1 no.
3.17 Fiberoptic light cable, dia. 3.5 mm length 230cm- 1 no.
3.18 Main cord for color monitor compatible with Sony Trinitron Vega monitor
3.19 Cautery cable should be compatible with Aesculap cautery GN.060
3.20 The following instruments are to be supplied:
3.20.1 Telescope 0° 18cm 4mm with working insert operating tube.
3.20.2 Localizer chisel, suction tube
3.20.3 Nerve Protector, Trephie, spoon forceps
3.20.4 Bone Punch 45° and 90°
3.20.5 Elevator and Palpation hook
3.21 Sterilization tray with silicon cushion pads.
3.22 Back cutting forceps
3.23 Tissue debrider
3.24 Endoscopic Knife
3.25 Monopolar coagulation
3.26 Flexible forceps
3.27 Mobile cart (Imported)
3.28 Diagnostic (observation) telescope for assisted surgery 0 deg., 30deg. And 70 deg.

3.29	The endoscope should be topline or equivalent
4	System Configuration Accessories, spares and consumables
4.1	System as specified
5	Environmental factors
5.1	The unit shall be capable of being stored continuously in ambient temperature of 0 -500 C and relative humidity of 15-90%
5.2	The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of less than 70%
6	Power Supply
6.1	Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2	Resettable overcurrent breaker shall be fitted for protection
6.3	Suitable online UPS of min 2KVA .
7	Standards, Safety and Training
7.1.	Manufactures/Supplier should have ISO certificate to Quality Standard.
7.2	Should be compliant with IEC 61010-1:(or any international equivalent eg EN/UL 61010) covering safety requirements for electrical equipment for measurement control and laboratory use
7.3	Should be FDA, CE, UL or BIS approved product
7.4	Comprehensive training for lab staff and support services till familiarity with the system
7.5	Comprehensive warranty for 5 years and additional 5 years AMC
8	Documentation
8.1	User/Technical/Maintenance manuals to be supplied in English
8.2	Certificate of calibration and inspection
8.3	List of equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service/ technical manual
8.4	List of important spares and accessories with their part number and costing
8.5	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spely out.
8.2	Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet. Any point, if not substantiated with authenticated catalogue/manual, will not be considered.

Schedule: 19

E.N.T. OPERATING MICROSCOPE & Video Camera Unit

1	Heavy Mobile floor stand with mechanical/Magnetic brakes and good counter weight balancing system and locking device.
2	All the cables should be inside the stand and microscope arm for protection.
3	Motorized Zoom Magnification system with apochromatic optics
4	Manual magnification changer, 1:6 ratio in 5 steps.(Max. magnification up to 18.5x or more)
5	Field of View 10 mm to 150 mm continuously variable.
6	Objective lens working distance 200-400 mm, with multifocal objectives (200mm for otology, 300 mm for rhinology and 400mm)
7	Tilt able Binocular tube up to 180 degree
8	Stereo co-observer Tube
9	Facility for adjusting speed of the focusing motor to adapt for different magnification.
10	Complete auto balance by single push button.
11	Motorized zoom and focus control on Pair of handles and wireless foot Control.
12	Microscope Head should be freely mobile to all the directions and can be maneuvered to laryngeal surgery.
13	Xenon illumination for day light character with back-up illumination of Xenon lamp with power supply preferable inbuilt in sturdy floor stand.

14 Suitably mounted / Integrated Three chip HD camera
15 Minimum 20" HD video touch screen monitor compatible with camera, mounted on the microscope arm
16 CD/ DVD recording device for documentation.
17 Integrated HD digital video recording facility with appropriate video editing software.
18 Trolley to keep CD/DVD recording device etc.
19 One Spare Xenon bulb
20 Microscope should be adaptable to Micromanipulator for LASER
21 Any other accessory which is must for functioning of the equipment like continuous voltage stabilizer etc.
22 Voltage 230, frequency 50-60 Hz
23 Should be European CE / US FDA approved.
24 2-5KVA UPS should be supplied as standard

Schedule: 20

OT Light LED

Operating Room Surgical Lighting System should provide an ideal combination of brightness, maneuverability, and shadow resolution without sacrificing color accuracy through a consistent LED technology with a unique faceted reflector design technology. OT Light should have 5 arms (2no. for dome, 2 No. for monitors & 1 No. for camera)
Such Lighting System should have the following technical specifications:
Number of Light heads : Two per suspension
Color Temperature : 4300 k -4700 (±10 %) (White LED)
Field Size Diameter : 20 to 28cm (+/- 10%)
Depth of Field : 750 to 1100mm (+/- 10%)
Illumination Level : 160000Lux Major Dome & 120000Lux Minor dom
Controls : Control Panel (wall and on dome)
Rotation : 360 -330degrees
Sterilizable Handle : Yes
Light head area : 5000 square cm (+/- 10%)
Mounting Type : Ceiling
Supply Voltage : 230 VAC 50 Hz
Bulb Type : LED
Dimming Range : 30% - 80%
Operating/Storage Humidity : 10 – 95%
Life of Light Source : >40,000 Hrs
"There should be a provision to mount the camera in one dome.
Cra & Ra both should be > 95%"
Surgical Light System Should be compliant with relevant European CE /US FDA standards

HD Camera System – 1080p
Description: Integrated In-Light Camera System should be integrated at the centre of one of the domes of this lighting system/ third arm in order to capture images & video sequences of the open cases.
Such a autofocus – Locable camera should have the following specifications

Signal to Noise Ratio (S/N Ratio)	:	>50 dB
CCD	:	1/3"
Optical Zoom	:	10X
Digital Zoom	:	12-15
Video Output	:	**HD,** S-Video & Composite Video
White Balance & Gain	:	Automatic/Manual

Light and Integrated camera should have a control through Touch Panel of the control equipment placed inside the operating room.

HD LED FLAT PANEL MONITOR

1. **It Should have 1 Nos. 52" HD Flat panel Monitors for wall mounting**
2. **It should have 2 nos. 32" High Definition Flat panel Monitors** to be mounted on separate arms in OT light
3. HD Recording device with input cable (Price to be quoted separately)
4. UPS of min 2KVA should be supplied as standard

The flat Panel suspension should be ready with the cables for integration of High Definition Digital (DVI/HDTV), RGBHV (High Resolution), SVHS (S-Video), Composite video signals to travel from the various sources of video like endoscopic camera, room camera, in light camera, high definition flat panel monitors, while assuring native resolution / signal.

Schedule: 21

Ultrasonic Cutting and Coagulation device

1	Description of Function
1.1	Ultrasound is the basis for an efficient surgical instrument: the cuts and coagulates by using lower temperatures than those used by electrosurgery or lasers. Controls bleeding by coaptive coagulation at low temperatures ranging from 50ºC to 100ºC: vessels are coapted (tamponaded) and sealed by a protein coagulum. It should have vessel sealing capacity up to 7mm or more.
2	Operational Requirements
2.1	The system should be used for Laparoscopic & open Procedures which should operate at the same frequency. The system should have open and laparoscopic probes for both ultrasonic & vessel sealing system.
3	Technical Specifications
1	Ultrasonic generator generating ultrasound frequency in between 35-70 KHz
2	Hand-piece with transducer & silicon cable
3	Capability of being operated by hand control or foot switch.
4	Single/Dual foot-switch attachment
5	Stand-by mode for better safety
6	System diagnostics and troubleshooting guide
7	Warning system for malfunctioning cable, probe etc (Audible/ Visual)
8	It should not interfere with other electromagnetic devices
9	It should have a horizontal/torsional vibration
10	Should be capable of sealing vessels at least upto 7mm diameter
11	Should have different audible tone settings for different modes
4	System Configuration Accessories, spares and consumables
4.1.1	Accessories:
1.	Foot-switch with cable.
2	Cart to house the generator and accessories
3	Ultrasonic Hand piece- 10 Nos. (Price to be quoted separately for each unit)
4	Disposable coagulation shears for open surgery – 7mm dia 17cm long- 25 nos. (Price to be quoted separately)
5	Disposable coagulation shears for laparoscopic surgery – 7mm dia 30-45cm long- 25 nos. (Price to be quoted separately)
6	Any Other compatible Accessories has to be offered if any
5	Environmental factors
5.1	Shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility or should comply with 89/366/EEC; EMC-directive.

5.2 The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
5.3 The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
6 Power Supply
6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2 Online UPS of 2KVA should be supplied as standard.
7 Standards, Safety and Training
7.1 The generator must be CF isolated applied device and defibrillator protection must be available.
7.2 Should be USFDA or European CE approved Model
7.3 Manufacturer should have ISO certification for quality standards
7.4 Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450
7.5 Instrument should be upgradeable in case of any technology advancement free of cost. Handpiece should be warranted for 95 to 100 usages.
8 Documentation
8.1 User/Technical/Maintenance manuals to be supplied in English
8.2 Certificate of calibration and inspection.
8.3 List of Equipment available for providing calibration and routine Preventive Maintenance Support. As per manufacturer documentation in service/technical manual
8.4 List of important spare parts and accessories with their part number and costing
8.5 Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet.Any point ,if not substantiated with authenticated catalogue/manual, will not be considered. The equipment should be available for demonstration in case required
8.6 Bidder has to give demonstration of the equipment if required.
8.7 The equipment should have 95% uptime. If downtime exceeds 5 % in a calendar Year, Warranty will exceed for double the number of days.
8.8 Price to be quoted for each of the accessories & it should be valid for the entire warranty period.

Schedule: 22

Operating table Electro Hydraulic

A General operating table features: Table should be able to use for surgery, OBG, Neuro, Ortho and Endoscopy
1 Full-length radio-translucent top (C Arm Compactable).
2 4 or 5 sections tabletop, which should be made of a special scratch resistant, hardwearing and easy to clean material. Base column cover to be made of 100% stainless steel alloy and stainless steel.
3 Removable head and leg sections to suit different applications.
4 100% Kidney Bridge position should be obtained without moving the patient, through remote Control or by manual function.
5 Battery powered, with facility for connection to mains electricity for immediate use. Battery Exhaustion protection and low battery warning via an audible „beep"/display indicator should be available.
6 Table should not have a thread/sharp edge for ensuring proper cleaning and user safety.
7 Mattress should be of high quality that spans tabletop break for improved patient support. Its depth should be 50mm. Mattress must be Latex free.
8 The robust handset should offer 8 controls namely Trend. /Reverse Trend, Lateral Tilt, Flexion/ Extension and Height functions.
9 Brakes, 4nos Wheels

10 Table should have offset slim-line column, with S.S. Inverted telescopic covers, for superior imaging and access.

11 It should have a stable construction with 4nos Wheels of the base with large twin-disk castors for easy motion and manoeuvring (base braking by locking the twin-disk castors at the head end via a central foot pedal/ Hand control)

12 The table top should not be fitted with transverse members casting shadows on the X-ray images except for the release brackets for adjustment on either side.

13 The Table should be operated by the following operating elements: cordless remote control for head end and leg end (Surgeon end and Anesthetic end)

B. Electrical specification:
Special-design, maintenance-free rechargeable batteries with capacity for about a week‟s use in the operating room.
Recharging of the batteries and supply of the operating table by means of a mains cord
Nominal mains voltage (selectable) 220/230-240V AC via mains cord with inbuilt stabilizer

C. Technical Data:
Length : 2000-2100 mm
Width : 640-660 mm
Minimum height (without mattress): 650± 50 mm
Maximum height (without mattress): Minimum of 1050 mm
Maximum lateral tilt: 20-30 deg. (either side)
Trendelenburg: atleast 25deg
Reverse Trendelenburg : atleast 25deg
Head section adjustment : ±40-45 deg.
Leg section adjustment: +10 deg; to -90 deg
Break (extension) position : 200-220 deg
Break (flexion) position : 110-130 deg
Cranial & caudal traversing: 200-300 mm
Back section adjustment: 40-80 deg
Maximum patient weight : 250 kg or more
Technical Specification-
Accessories
Arm board - 2
Lithotomy leg holders “Geopel type” (adult and paediatric)-1set each
Body strap- 3
Anesthesia screen with clamps- 2
Side supports with clamps – 2
Knee crutches with clamps - 2
Clamp, rotary- 4 pc
Clamp, circular - 4 pc
Accessories stand, mobile on castors- 1 pc
Arm support, perplex -2 pc
Clamp for locking X Ray cassette -1
Extended Lithotomy Leg Holder- 1
Accessories for operating in prone position
The table should be US-FDA or European CE approved product
For Electrical IEC 60101-1, medical/electrical equipment for safety, IEC 60601-2-46 for safety of OT tables and IEC 60601-1-2 for Electromagnetic compatibility
Min 2 KVA UPS should be supplied as standard

Added Para: **Prices for following OT Table accessories to be offered separately**
Accessories for 2 Nos. Neurosurgery OT Tables
i. Mayfield Skull clamp
ii. Cervical attachment

iii. Accessories stand

Accessories for 2 Nos. Orthopedic OT Tables

i. Radiolucent pelvis plate with orthopaedic extension

Schedule: 23

Electric Cautery/Electro Surgical Unit with vessel Sealing

1 Technical Specification

1.1 ESUs are used for surgical cutting and for controlling bleeding by causing coagulation (hemostasis) at the surgical site. They deliver high-frequency electrical current through an active electrode tip, causing desiccation, vaporization, or charring by resistive heating in the target tissue.

2 Operational Requirements

2.1 Microprocessor/Microcontroller technology

3 Technical Specifications

3.1 Integrated touch screen system with 300-400W output generator for monopolar cut, 100 - 120Watt for monopolar coagulation, bipolar cut 90-150Watt and Bipolar coagulation 90-120Watt and vessel sealing system for open and laparoscopic surgery with under water cutting current.

3.2 Should provide monopolar output for cut, coagulation (fulguration & spray) & blend in multiple levels

3.3 Should have bipolar cut and coagulation in multiple levels with automatic bipolar coagulation.

3.4 Activation by foot switch and hand switch for all the modes.

3.5 Activation of bipolar by foot switch

3.6 Capable of sealing vessels up to 7 mm diameter

3.7 Auto diagnosis on switching on and during working to continuously monitor all parameters

3.8 Automatic stoppage of output in case of malfunction with acoustic and visual signal with display of error code.

3.9 Output powers adjustable automatically or manually from the control panel.

3.10 Programmable memory for output settings

3.11 Should be usable with laparoscopic monopolar and bipolar instruments, for which programmes and accessories must be available

3.12 System for neutral plate safety by continuous monitoring of contact quality and connection

3.13 System for monitoring and control of leakage current

3.14 Frequency Leakage on the patient should be less than 10 micro Amp.

4 System Configuration Accessories, spares and consumables

4.1 System as specified

4.2 The accessories should include:

(a) trolley, qty 01

(b) Mains cable with power plug for standard Indian sockets, qty 01

(c) foot switches for different outputs, qty 01

(d) reusable neutral electrode for adults and children along, with cable for neutral electrode and fixation device wherever required, qty 05 each

(e) sterilisable re usable electrode handle with finger switch with cable for electrode handle, qty 05

(f) set of electrodes (4 different types) with electrode container with holder, qty 5 of each type

(g) tip cleaner, minimum 50 nos

(h) bipolar forceps with cable, straight, and Bayonet - qty 02 of each type (Price to be quoted separately)

(i) cable for connecting to standard mono polar and bipolar laparoscopic instruments, qty 02

(j) Reusable and Disposable dedicated instruments for open and laproscopic monopolar, bipolar and vessel sealing use- 5 Nos. (Separate price for each should be quoted and price should be freeze for 5 years)

4.3 The codes and rates of all possible individual accessories should be quoted separately with clear mention of period of validity of rates
5 Environmental factors
5.1 The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
5.2 The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
6 Power Supply
6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2 Suitable UPS on min 2 KVA
7 Standards & Safety
7.1 Should be USFDA or European CE approved product
7.2 Manufacturer should have EN ISO certification for quality standards.
7.3 Complete system and all accessories mentioned should be from same make.
8 Training
8.1 Comprehensive training for staff of user department and support services till familiarity with the system.
9 Service
9.1 Percentage of uptime guarantee of the equipment during warranty and CMC period for which commitment is to be given must be specified with acceptance of applicable penalty clauses in case of failure to do so.
9.2 After sales service must be provided in the city of installation. In situations requiring service/repair of the unit outside the city of installation, the expenditure on account of this will have to be borne by the supplier
10 Documentation
10.1 Product Literature in original along with that of accessories and indigenous components if any. Photocopies/computer generated copies are not acceptable
10.2 Statement of compliance with tender specifications with clear and unambiguous links to relevant portions of product literature/authentic document, which should be highlighted. Alternatives provided for noncompliant specifications with justification must be described in detail with supporting literature.
10.3 Certificate of compliance with standards and approvals stated above
10.4 Certificate of manufacturer/principal regarding authorization of service facility provided by the supplier

Schedule: 24

Electric Cautery/Electro Surgical Unit

1 Technical Specification
1.1 ESUs are used for surgical cutting and for controlling bleeding by causing coagulation (hemostasis) at the surgical site. They deliver high-frequency electrical current through an active electrode tip, causing desiccation, vaporization, or charring by resistive heating in the target tissue.
2 Operational Requirements
2.1 Microprocessor/Microcontroller technology
3 Technical Specifications
3.1 Integrated touch screen system with 300-400W output generator for monopolar cut, 100 - 120Watt for monopolar coagulation, bipolar cut 90-150Watt and Bipolar coagulation 90-120Watt and vessel sealing system for open and laparoscopic surgery with under water cutting current.
3.2 Should provide monopolar output for cut, coagulation (fulguration & spray) & blend in multiple levels
3.3 Should have bipolar cut and coagulation in multiple levels with automatic bipolar coagulation.

3.4 Activation by foot switch and hand switch for all the modes.
3.5 Activation of bipolar by foot switch
3.6 Deleted
3.7 Auto diagnosis on switching on and during working to continuously monitor all parameters
3.8 Automatic stoppage of output in case of malfunction with acoustic and visual signal with display of error code.
3.9 Output powers adjustable automatically or manually from the control panel.
3.10 Programmable memory for output settings
3.11 Should be usable with laparoscopic monopolar and bipolar instruments, for which programmes and accessories must be available
3.12 System for neutral plate safety by continuous monitoring of contact quality and connection
3.13 System for monitoring and control of leakage current
3.14 Frequency Leakage on the patient should be less than 10 micro Amp.
4 System Configuration Accessories, spares and consumables
4.1 System as specified
4.2 The accessories should include:
(a) trolley, qty 01
(b) Mains cable with power plug for standard Indian sockets, qty 01
(c) foot switches for different outputs, qty 01
(d) reusable neutral electrode for adults and children along, with cable for neutral electrode and fixation device wherever required, qty 03 each
(e) sterilisable re usable electrode handle with finger switch with cable for electrode handle, qty 05
(f) set of electrodes (4 different types) with electrode container with holder, qty 5 of each type
(g) tip cleaner, minimum 20 nos
(h) bipolar forceps with cable, straight, and Bayonet - qty 02 of each type (Price to be quoted separately)
4.3 The codes and rates of all possible individual accessories should be quoted separately with clear mention of period of validity of rates
5 Environmental factors
5.1 The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
5.2 The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
6 Power Supply
6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2 Suitable UPS on min 2 KVA
7 Standards & Safety
7.1 Should be USFDA or European CE approved product
7.2 Manufacturer should have EN ISO certification for quality standards.
7.3 Complete system and all accessories mentioned should be from same make.
8 Training
8.1 Comprehensive training for staff of user department and support services till familiarity with the system.
9 Service
9.1 Percentage of uptime guarantee of the equipment during warranty and CMC period for which commitment is to be given must be specified with acceptance of applicable penalty clauses in case of failure to do so.
9.2 After sales service must be provided in the city of installation. In situations requiring service/repair of the unit outside the city of installation, the expenditure on account of this will have to be borne by the supplier
10 Documentation
10.1 Product Literature in original along with that of accessories and indigenous components if any. Photocopies/computer generated copies are not acceptable

10.2 Statement of compliance with tender specifications with clear and unambiguous links to relevant portions of product literature/authentic document, which should be highlighted. Alternatives provided for noncompliant specifications with justification must be described in detail with supporting literature.

10.3 Certificate of compliance with standards and approvals stated above

10.4 Certificate of manufacturer/principal regarding authorization of service facility provided by the supplier

Schedule: 25

Surgical Operating Microscope for Neurology

Specification for Surgical Operating Microscope For Neurosurgery

Microscope:

The Optics carrier should have latest technology of Horizontal Optics Technology. The Optics Carrier should be more smaller and more compact than the usual Surgical Operating Microscope
Brilliant Optics WITH OPTICHROME/APOCHROMATIC Technology
Motorised 1:6 zoom, activated through Hand switch, Footswitch and through control panel. Manually adjustable override.
Magnification range: 1.5X- 17.0X with 10x Eyepiece
Field of View diameter 12.5mm - 143mm with 10X Eyepiece
Motorised focus via multifocal lens from 200mm to 500mm, activated through Hand switch, Footswitch and through control panel. Manually adjustable override.
Wide range of Obsevation through integrated stereo bridge beam splitter & Stereo Coobservation. Stereo Coobservation should remain fixed while tilting the microscope head.
Optics with Stereo Base 22mm or more for natural three-dimensional image.
Completely integrated configuration without any modular attachment possible for each application.
Ideal for seated patient operations (e.g. Posterior fossa). NO NEED TO CHANGE OVER THE ACCESSORIES AND RE-BALANCING IS NECESSARY.
Single User Interface for control of data during surgical procedure. Should be touch controlled screen integrated within the stand.
The microscope should have single touch autobalance for intraoperative balancing despite of any configuration of the microscope.
The speed of the zoom & focus should adjustable via control panel
Automated illumination Brightness control is linked to working distance / Avoids accidental thermal injury by shortening working distance without lowering the height.
Built in automatic zoom-synchronized illumination field diameter, with manual override and reset feature I Only exposes tissue to light, that needs light Scatter light from retractors is often eliminated
Binocular tube – Should be minimum 0-180 degree tiltable or more for comfortable fatigue free surgical postures for all microvasular surgeries like posterior fossa and other.
Dual Laser focusing device for fast, precise microscope positioning

Illumination:

Dual lamp illumination of 300 watt or more, completely integrated within the microscope stand without any external modules. Should have quick semi automatic lamp exchange facility.
Dual Light Illumination system: Should have additional beam path to illuminate deeper cavities for shadow free surgical field.

Must Accessories

IGS- Facility

Should be capable of Image Guided Surgical procedures and should be a mandatory feature.

Optional Accessories:

Fluorescence guided surgeries for Tumor Resection and Vascular surgeries.
Should be Upgradable and without any additional hardware through modular attachments. Should remain completely integrated within the system.

Mouth Control of Microscope:
Attachment system to enable mouth control the microscope

Stand System:

Floor Stand – Should be of Contravis technology and six electromagnetic movements.
Base – Should be stable and robust.
Extremely light movement and control of the optics carrier by 6 electromagnetic brakes
XY Movement – True curvilinear movements for true XY movements.
for the front to back inclination for the difficult Posterior Posa cases
once balanced the whole system should be able to move around with your two fingers on the hand switch
Optics rotation 540°
Footswitch with 12 or more functions
The system should be A True Over Head Positioning
Weight - Approximately 310Kgs with fully loaded
Inter-operative Auto balance - can be balanced during the case without breaking sterility by touching a simple button in the single user interface screen.

Must accessories

Stereo co observation system for the Cranial work – should remain fixed while tilting the microscope head.
Face to face attachment for spine work.

3CCD Full HD (1080P) Camera- Should have completely integrated within the microscope head without any external attachments.

Must accessories Video/Photo

High Difination Medical Device system with LED built in Monitor

The recorder should be full HD only.
File storage on any of the external storage device viz., Pen drive, USB storage device etc.,
Dual Monitor Output
Fire wire input/output
More storage capacity
Slow Motion mode
Should have DICOM compatibility
Vascular Fluorescence ready

Miscellaneous

Asepsis for all controls and special objective protective glass
Also Laser Adaptability

Schedule: 26

Cardio tocography machine (6 Nos) with One Central Station

1 Description of Function

1.1 Antepartum and Intrapartum foetal monitor (Cardiotocomachine) is used to monitor Foetus during antepartum period (before labour) or intrapartum period (birth process)

2 Operational Requirements

2.1 The complete unit with printer and all accessories should be offered.

3 Technical Specifications

3.1 The monitor should be provided with:

1) Battery and main operation facility
2) Should have inbuilt 10-12" LCD screen / LCD TV monitor with facilities to display on screen fetal heart tracings and toco tracings.
3) Should be compact, lightweight and should have inbuilt carrying handle and waterproof transducers.
4) The unit should have Fetal Heart rate range 50 to 240 bpm External Toco range 0 to 127 relatives units. Should have NST timer for antepartum applications
5) Highly sensitive ultra sound transducer which should be 1.5MHZ for less signal attenuation and good signal acquisition. Ultrasound transducer should be a waterproof unit. Designed with Snap Clasp closure for easy application and cleaning. Should have facility to connect any transducer in any socket for easy use. Preferably there should be facility to switch between transducers when more than one transducer is used.
6) Ability to give an accurate continuous trace and should be able to detect sudden beat changes up to 25 bpm
7) Audible alert indication of fetal bradycardia and tachycardia
8) External tocotransducer which should be a sealed waterproof unit. Guard ring designed to reduce maternal respiration artifact.
9) Patients event marker.
10) Capability of automatic fetal movement detector.
11) Digital numeric and text display along with audio signal of fetal movement. Should have inbuilt keyboard entry screen for patient data entry, Name etc.Minimum 5 hour memory of traces with fast printing.
12) Should provide following accessories – Transducer belts, Belt buckles, Main cables, interconnecting cables, ultrasound gel bottles, thermosensitive paper, ground cable, spare fuse.
13) Adjustable print speed of 2-3/min, high speed inbuilt high resolution thermal / Laser printer with easily available cost effective paper
14) Should be provided with trolley with wheels with locking facility for mounting the unit on it with accessories for storage of transducers paper etc or the unit must have the facility for wall mounting and a protective cover with cabinet.
15) PC based software for storage, reload and analysis.
16) The following should be supplied as standard:
    (I) Should have facility for intra uterine pressure monitor.
    (II) Should have facility to record fetal heart rate pattern through fetal ECG.
    (III) Should have facility to monitor twins. Should have twin offset feature so that both fetal heart traces are clearly visible.
    (IV) Should have facility of connection of central monitor system with remote control with wire and wireless connection.
17) Need maternal parameter monitoring like: Pulse, BP, SPO2, Temp, ECG.
18) Acoustic Stimulator
19) Automatic CTG analysis DAWES/ Redman CTG analysis

4 System Configuration Accessories, spares and consumables

deleted

5 Environmental factors

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

5.2 The unit shall be capable of operating continuously in ambient temperature of 5-40 deg C and relative humidity of 15-90%

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

6 Power Supply

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

6.2 Should work on 220-240V AC as well as rechargeable batteries. Mains adaptor to be supplied

6.3 UPS with minimum 4 hours back up to be supplied along with the system

7 Standards, Safety and Training

7.1 Should be USFDA or European CE approved product

7.2 Comprehensive warranty for 2 years and 5 years CMC after warranty including UPS

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

7.4 Manufacturer should have ISO certification for quality standards.

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

8 Documentation

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

8.2 List of Equipments available for providing calibration and routine Preventive Maintenance Support. As per manufacturer documentation in service / technical manual.

8.3 Certificate of calibration and inspection.

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

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

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

Schedule: 27

Video Endoscope unit with NBI/HD+Video with Upper GI Endoscope, Colonoscope-ERCP with accessories

Technical Specifications for HD Videoendoscopy System

Quantity

1) **Gastrovideoscope:** (2)

- Built in HDTV compatible CCD with close focus observation capacity.
- Should have Narrow Band Imaging & Dual Focus
- Fully immersible in disinfectant solution (no need to attach water resistant cap) & one touch connectivity.
- In built scope identification memory chip for monitor display of scope's model no.serial no., white balancing memory, no. of connections / cummulative uses etc.
- Should have Forward/ Auxiliary water jet for mucosal cleaning
- The scope should be the latest available in the world market

a. Insertion tube outer diameter : 9.9 mm or less for diagnostic

b. Field of view/angle of view : Normal/Near focus 140 degree or more

c. Direction of view : forward viewing

d. Depth of field : Normal 4/5-100 mm or better

e. Distal end outer diameter: 9.9 mm or less for diagnostic

f. Angulation of tip

A) Upwards	-	210^0 or more
(B) Downwards	-	90^0 or more
(C) Right	-	100^0 or more
(D) Left	-	100^0 or more

f. Instrument channel - ≥ 2.8 mm

g. Working length : 1030 mm or more

h. Total length : 1030 mm or more

i. Minimum Visible distance of instrument used thru channel : 3 mm or closer from distal end.

(2) → **For therapeutic gastrovideoscope – two instrument channel 2.8 mm and 3.8 mm and with a water jet nozzle** (1)

j. Accessories

a. reusable biopsy forceps oval cup fenestrated,
   oval cup non fenestrated- 5 each
b. hot biopsy forceps with alligator cups with and without needle-3 each,
c. foreign body retrievable basket 6 wires- 2
d. hot biopsy forceps reuseable-2 each
e. electrosurgical snare- 2 each
f. bipolar probes-10 each
g. cleaning brushes and channel opening brush- 5 each,
h. washing pipe/spray catheter- 20 each with each scope.
i. Injection needle 21 G- 10 with each scope.
j. Grasping forceps- rat tooth, rubber tipped- 2 each,
k. Rotatable clip fixing device short and long- 5 each with one hundred single use clip.
l. Endoloop ligating device(applicator) length 1650 mm and 2300 mm- 5 each
m. endoloops 30mm 5 boxes and 20 mm 5 boxes.
n. Hemoclips- 20 each
o. Extra suction and air water buttons 5 each
p. Biopsy channel valves- 2 packs of 100 each
q. Celeston Esophageal dilators- 1 box
r. Extra Xenon bulbs - 2

2. **Ultrathin Endoscope** (1)

a. outer diameter – 5.4- 6.5 mm

b. field of view - 100°- 140°

c. Direction - forward

d. Working length - 1- 1.2 metres

e. Depth of field - 4- 100 mm

f. Angulation of tip

A. Upwards - 180 °- 210 °

B. Downwards - 70 °- 90°

C. Right - 90°- 1oo°

D. Left - 90°- 100 °

g. Instrument channel - 2.0-2.2 mm

h. Automatic scope identification system with compatible video processor.

i. The system must be suitable for high resolution, high magnification images of the GI tract with facility to provide images with optical chromoendoscopy.

j. Should be compatible with video processor for other endoscopes.

k. Standard accessories

A. Cleaning brush and channel opening brush - 10 nos

B. Biopsy forceps - 5 nos

C. Suction and air water valves - 5 nos

D. foreign body retrievable basket 6 wires- 5

E. Injection needle 21 G- 10 with each scope

F. Grasping forceps- rat tooth, rubber tipped- 5 each

G. Magnetic wires/forceps- 5

H. Hemoclips compatible with this channel- 20 each

I. Bipolar probes - 10

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(3) Colonovideoscope: (1)

- Built in HDTV compatible CCD with (Dual) Near & Normal focus observation capacity.
- Should have Narrow Band Imaging/ HD plus for detailed mucosal study
- Inbuilt features like Variable stiffness, High force transmission & Passive bending for ease of insertion.
- Fully immerssible in disinfectant solution (no need to attach water resistant cap) & one touch connectivity.
- In built scope identification memory chip for monitor display of scope's model no.serial no., white balancing memory, no. of connections / cummulative uses etc.
- Auxilary water jet for mucosal cleaning
- The scope should be the latest available in the world market

a. Insertion tube outer diameter : 13.2 mm or less

b. Field of view : In Normal focus 140 deg or more,
In Near Focus-160 deg or more

c. Depth of field : : 4/ 5-100 mm, Near 2-6 mm or better

d. Distal end outer diameter : 13.2 mm or less

e. Angulation of tip -
(A) Upwards - 180^0 or more
(B) Downwards - 180^0 or more
(C) Right - 160^0 or more
(D) Left - 160^0 or more

f. Inst. Channel - 3.2 – 3.8 mm

g. Working length : L : 1680 mm or more

h. Total Length : L: 2005 mm or more

i. **Accessories** :

a. biopsy forceps with and without needle – 10 each compatible with the channel
b. Polypectomy snare hexagonal and oval rotatable (2 packs of 10 each)
c. hot biopsy forceps reuseable-2 each
d. electrosurgical snare- 2 each
e. bipolar probes-10 each
f. cleaning brushes and channel opening brush- 5 each,
g. washing pipe/spray catheter- 20 each with each scope.
h. Injection needle 21 G- 10 with each scope.
i. Rotatable clip fixing device short and long- 5 each with one hundred single use clip.
j. Endoloop ligating device(applicator) length 1650 mm and 2300 mm- 5 each
k. endoloops 30mm 5 boxes and 20 mm 5 boxes.
l. Hemoclips- 20 each
m. Extra suction and air water buttons 5 each
n. Biopsy channel valves- 2 packs of 100 each

4. Duodenovideoscope (Therapeutic):

- Dual locking (Central & Side) mechanism for 0.025" & 0.035" Guidewires.
- Suitable for Narrow Band Imaging/ HD plus.
- Fully immerssible in disinfectant solution.
- In built scope identification memory chip for monitor display of scope's model
- no.serial no., automatic white balancing control, no. of connections / cumulative uses etc.
- The scope should be the latest available in the world market

a.	Field of view	:	90-110 ° or more
b.	Direction of view	:	5 °, backward oblique viewing
c.	Depth of field	:	4/5 to 60 mm or better
d.	Distal end outer diameter	:	11-14mm less
e.	Insertion tube outer diameter	:	11-14mm or less
f.	Angulation of tip		-
	(A) Upwards	-	120^0 or more
	(B) Downwards	-	90^0 or more
	(C) Right	-	100^0 – 110 °or more
	(D)Left	-	90^0 or more
g.	Working length	:	1.2-1.4 metres
h.	Channel inner diameter	:	4.2 mm or more
i.	Minimum Visible distance	:	10 mm or closer from distal end.
j.	Accessories	:	

ERCP accessories-

a. Single use bendable cannula- 10 each,
b. single use hydrophilic cannula guide-wire- 10 each(straight 2150mm working length and 70mm hydrophilic length/ angled 4500 mm length and 70mm hydrophilic length),
c. V- system TM single use triple lumen sphincterotome- 10 each,
d. V- system single use triple lumen needle knives- 10 each,,
e. V- system single use triple lumen balloons- 10 each,

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f. Flower basket V single use stone extraction basket- 10 each,

g. tetracatchV single stone extraction basket-10 each,

h. Reusable hard type dormia basket- 10 each,

i. Single use Lithocrush V mechanical lithrotriptors-5, MAJ-441 reusable handle for lithrocrush V- 2,

j. reusable emergency lithotripter-5 each,

k. single use cytology brush-20 each,

l. single use high pressure biliary balloon dilators-20 each,

m. single use inflation device for balloon dilators- 4

n. reusable stent removal forceps-20 each

o. Guidewires (5 each)

    1. Exchange wire (0.035 Fr, 450 cm length)
    2. Wire with hydrolic tip at both end along with radio opaque marker over the tip (0.35 Fr, 450 cm)(hydra jag)

p. Needle knife for ERCP use (Precut) (Five) Triple lumen, 7 fr to 5.5 fr monofilament (micro knife XL).

q. Biliary cytology brush: Double lumen with radio opaque marker: 5

r. Biliary Balloon Dilatators with inflation device: Double lumen with radio opaque marker (6 mm, 8mm, & 10mm) two

5. ERCP electrocautery system

Specifications	:	High frequency 330-380 KHz
Type protection class :		CF class I
Power supply	:	220- 240 V. 50/60hz, 400 VA
Size	:	295x375X115 mm
Weight	:	6.5kg
Monopolar output	:	sockets 6 mm A cord and 10 mm 2 pins for P cord connecting single/ split neutral electrodes
	:	cut 1/2/3 120W @ 500 ohms
	:	Pulse cut slow /fast 120 W @ 50 ohms
	:	Soft Coag 120 W @ 500 ohms
		: forced coag1: 50 W@ 500 ohms
		: Forced Coag 2: 120 W @ 500 ohms
Bipolar Output		: Sockets : 28.8 mm 2 pins and 4/8 mm coaxial
Cut 1/2/3		:120 W @ 500 ohms
Soft Coag		:120 W @ 100 ohms
RF coag inc RCAP		: 40 W @ 100 ohms

Should be shock proof, supplied with a trolley, standard accessories, two earthing pad, two foot switche, electrocautery probes 10 each compatible with 2.8 mm, 2 mm channel and 3.8 mm

6. Sigmoidoscope: (1)

- Clear, sharp, high-quality images in a large-size display.
- Ergonomically designed grip to enhance scope manoeuvrability.
- Four user programmable switches to improve operability.
- Large field of view of 140° for better and close observation.
- Large 3.7 mm diameter instrument channel ensures strong suction capability and accommodates a wide range of endo-therapy accessories.
- Should be equipped with Auxiliary water port.

1.	Field of view	:	140°or more
2.	Direction of view	:	Forward viewing
3.	Depth of field	:	3 to 100 mm or better
4.	Distal end outer diameter	:	13.2 mm or less
5.	Insertion tube outer diameter	:	13.2 mm or less
6.	Angulation of tip		-
	(A) Upwards	-	180° or more
	(B) Downwards	-	180°or more
	(C) Right	-	160°or more
	(D)Left	-	160°or more
7.	Working length	:	730 mm
8.	Total Length	:	1040 mm
9.	Instrument Channel	:	3.7 mm

10. Accessories:

a. biopsy forceps with and without needle – 10 each compatible with the channel
b. Polypectomy snare hexagonal and oval rotatable (2 packs of 10 each)
c. hot biopsy forceps reuseable-2 each
d. electrosurgical snare- 2 each
e. bipolar probes-10 each
f. cleaning brushes and channel opening brush- 5 each,
g. washing pipe/spray catheter- 20 each with each scope.
h. Injection needle 21 G- 10 with each scope.

i. Rotatable clip fixing device short and long- 5 each with one hundred single use clip.

j. Endoloop ligating device(applicator) length 1650 mm and 2300 mm- 5 each

k. endoloops 30mm 5 boxes and 20 mm 5 boxes.

l. Hemoclips- 20 each

m. Extra suction and air water buttons 5 each

n. Biopsy channel valves- 2 packs of 100 each

8. Video Processor: (1)

- Should be compatible with Analog, HD-SDI and DVI output for a HDTV monitor should be available.
- should contain the electronics to operate dual focus for clear visibility of near & far objects
- Equipped with high resolution HDTV Imaging capacity.
- Compact and ergonomically designed
- Narrow Band Imaging/ HD plus video capacity compatibility with NBI/ HD plus Videoscopes.
- Should be having inbuilt / separate light source.
- Recording of both still & moving images equipped with one touch connection of scopes.
- Portable Memory & USB Slot for image recording
- Automatic IRIS control & automatic white balance
- Picture in Picture display & Index functionability
- Electronic Zoom upto 1.5X.
- Equipped with memory back up for settings & Lithium battery.
- Should have pre freeze function for image stabilization
- Should have inbuilt light source or separate light source with Narrow Band Imaging capability/ HD plus video high intensity Xenon Light source (300W) with 500 hours life with Emergency halogen light for backup
- Compatible for waterproof one touch connector.

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- Backlit front panel indicators.Equipped with automatic light adjustment forced air cooling, regulated airfeeding pump and fan with low noise.
- Should be supplied with four extra xenon bulbs and two extra halogen bulbs .
- Compatibilty with all the endoscopes (Gastroscope, Ultrathin Endoscope, Colonoscope, Duodenoscope and both Endosonoscopes)
- Video signal output: RGB, Y/C and composite (all simultaneous)
- The endoscope system must be suitable for high resolution, high magnification images of GI tract with ability to detect early cancers and pre-neoplastic lesions by optical enhancement of images. The system must have the facility to provide images with optical chromoendoscopy.
- Should be supplied with 2 Kw online UPS
- Video endoscopy workstation with space for accommodation of a LCD video monitor (14" or more in size), video processor, light source with Double scope hanger.
- Two water bottles compatible with the processor
- Two high pressure suction machine (> 1 kpa) should be supplied
- One separate 36" LCD monitor should also be supplied for teaching purposes

High Definition LCD Monitor:

- 26 inch full HD LCD monitor with high resolution 1920X1080 (WUXGA)
- Lower Power consumption
- Aspect ratio 16:9 & 16 :10 with output of (1080/60I:NTSC) (1080/50I:PAL) with RGB or YPbPr
- Should have Picture-in-Picture and Picture-out-Picture for viewing side-by-side split screen images.
- Should be supplied with 40" LCD TV for extension of the images for teaching purposes.
- Should be supplied with 2 KVa online UPS.

10. Suitable computer, Printer, Trolley, Suction machine (2 Nos) and endoscopic softwares to be supplied along with the unit.

Schedule: 28

Endoscopic Ultrasound system with accessories

System Includes:

i) Ultrasonic Gastrovideoscope (Radial) – Optional – price to be offered seperately
ii) Ultrasonic Gastrovideoscope (Linear)
iii) Ultrasound Processor with color Doppler function
v) 300 Watt Xenon Light source
vi) High resolution Flat Monitor
vii) Video Cart
viii) Endoscopy Computer System
ix) Endoscopy Report Generation Software

SPECIFICATIONS:

Ultrasonic Gastro videoscope (Radial) : One in number (Optional - price of this item to be offered separately)

Should have following technical specifications/ features:

a) Ultrasonic features

1 Scan mode should have B Mode/Color Doppler
2 Electronic radial scanning angle of 360 and facility for image rotation
3 Scanning Direction should be Latitudinal with Scanning System (i.e. perpendicular to insertion direction)
4 EUS images with multiple selectable frequencies between 5 to 10 MHz

b) Endoscopic features

1 Field of view should be around ≥100 degree
2 Direction of view should be Forward
3 Depth of field should be 5 to 100 mm or less
4 Distal end outer diameter < 14mm
5 Distal should have short rigid portion for less trauma to the patient
6 Insertion tube outer diameter of <12.5 mm
7 Instrument channel diameter of 2-3 mm
8 Lens cleaning function for keeping the endoscopic field of view clear at all times
9 EUS Scope should be fully immersible for thorough cleaning

Ultrasonic Gastrovideoscope (Linear) : One In number

Should have following technical specifications/ features :

a) Ultrasonic features

1 Scan mode should have B Mode/Color Doppler
2 Electronic curved linear scanning angle of ≥120
3 Scanning Direction should be Longitudinal with Scanning System (i.e. parallel to insertion direction)
4 EUS images with multiple selectable frequencies between 5 to 10 MHz

b) Endoscopic features

1 Field of view should be around ≥100 degree
2 Direction of view should be 50-60 degree Forward-oblique
3 Depth of field should be 5 to 100 mm or less
4 Distal end outer diameter ≤ 15 mm
5 Distal should have short rigid portion for less trauma to the patient
6 Insertion tube outer diameter of ≤13 mm
7 Instrument channel diameter of ≥ 2.8 mm
8 Lens cleaning function for keeping the endoscopic field of view clear at all times
9 EUS Scope should be fully immersible for thorough clean
10 Videoscope should have FNA (therapeutic) capability
11 Better to have compatibility of special light function such as NBI, FICE and i-scan

Ultrasonic cable : One In number

Should have compatibility with the linear scope quoted here

Ultrasound Processor with Color Doppler Function : One nos.

Compact & easily transportable unit with Ultrasound & color Doppler function
Compatible with above mentioned EUS scopes
3D imaging options should be available
Real Time Compound imaging technology should be available
High Definition dynamic tissue Harmonic Imaging should be available
Multiple selectable frequencies between 5 to 10 MHz
Touch screen, dedicated and user friendly key board.
Possibility to retrieve images through USB port and DVD-RW to record
Picture in picture for both ultrasound and endoscopic image simultaneously
Elastography facility would be preferred

Video Processor: One in Number

Compact, lightweight and digital color video processor
Should be compatible with above mentioned EUS scopes, suitable light source & high definition monitor
Equipped with high resolution HDTV Imaging and processing capacity
Should have different input and output ports including RGB
Should have optical chromoendoscopy capacity (NBI, Fice or i-scan)
Recording of both still & moving images
Portable Memory & USB Slot for image recording
Automatic IRIS control & automatic white balance
Should preferably have an electronic zoom facility

Light Source (Xenon short arc Ozone free 300 Watt lamp) : One in Number

Equipped with high intensity Xenon Light source (100W) with atleast 500 hours life

Flat Screen Monitor- One in number

≥26”Flat screen full HD LCD Medical grade Monitor: should have following features & Specifications

Color system: PAL/NTSC/BNC
Resolution max: 1920×1200,
Multimodality display capability (Picture in picture, picture out picture)
Outputs: SDI/HD-SDI, Composite, S-Video, RGB, DVI-D
Brightness: at least 300 cd/m2
Contrast: 1000:1

Video Cart- One in number

BASIC VIDEOCART: The system should be supplied with an original suitable cart (trolley) to move the system from one place to another.

Endoscopy Computer System- One in number

3rd generation Intel dual core processor with ≥4 GB RAM, Windows 7 professional and 1TB hard d
23” Color LCD monitor
CD writer
High resolution color printer
Optical wireless mouse
Wireless Keyboard
Computer trolley

Endoscopy Report Generation Software- One in number

Compatible with Windows XP/Vista/7/8
Image and video recording facility
Image and video editing facility
User friendly

Complete system should be European CE or USFDA approved.

Schedule: 29

Argon Plasma Coagulation System

1 General/ Compatible electrosurgical unit:

Specifications:

- All components of system should be mountable on single trolly
- Modes of operation: Foot switch
- Electrosurgical unit should have option for both monopolar and bipolar cutting
- Coagulation mode should have option of variable coagulation like soft coagulation, forced coagulation, spray coagulation
- Should ensure effective, even surface coagulation for uniform haemostasis and tissue coagulation
- Monopolar cutting should have option for automatic voltage and arc control
- Should have option for pure cutting, pure coagulation, and blended currents
- Should have the facility to automatically adjust the current according to tissue resistance
- Bipolar coagulation probe –, 01 in number
- Electrosurgical unit should have two or more HF connecting sockets
- HF power limitations: 350-400 Watt or more for monopolar cut, **100W or more** for both monopolar and bipolar coagulation with option of change in steps
- Option of activating cutting/coagulation mode by pedal
- Automatic monitoring of the electrical connection between the neutral electrode and high frequency surgical unit
- Automatic monitoring of the electrical connection between the neutral electrode and patient
- Automatic monitoring of the HF currents in a monopolar applied part
- Should work on AC supply 220 volts, 50 Hz

2 APC Unit:

Specifications:

- Provision for connection of two cylinders of gas of 2 – 5 L
- Type of gas: Argon
- Power output: Around 200 watts Maximum cut output: upto 120 watts
- Adjustable gas flow 0.1 -8 litres/ min or more depending adjustable in steps of 0.1 litre
- Should have two different modes of APC
- Option of flushing with flushing duration of 5 seconds or less
- Gas gauge
- Pressure gauge manometer on the gas tank
- Option of controlling the depth of coagulation by choosing different coagulation mode
- Argon gas cylinders-2 Nos. 5Litre capacity should be supplied

3 APC probes

Specifications:

- APC probe should be reusable, sterilizable and washable
- APC instrument should automatically recognize by integrated automatic instrument recognition
- Should be compatible with endoscope channel diameter of 2.8 mm or more
- **Different catheters :**
  - ❖ Length 1.5 meters to 2.5 meters (Straight beam) – 5 Nos.
  - ❖ Length 1.5 meters to 2.5 meters (Side conical) – 5 Nos.
  - ❖ Length 1.5 meters to 2.5 meters (360 deg beam) – 5 Nos.
- Tip for gas flow with straight conical beam, side conical beam
- Prices for the probes should be fixed for next 7 years

4 Patient plate with compatible cords

Specification:

- Reusable Patient plate with compatible cords – 2 numbers
- Complete foot pedal unit with compactable cords etc for activation of cut & coagulation mode with foot – 2 in Nos.

5 Trolley and Other components:

- Compatible trolley for mounting all components of APC unit to make the system mobile
- Indigenous compactable constant voltage transformer if required with the system.
- All connecting cables to make the system work as APC unit and ESU with various modes of bipolar coagulation catheters/sphinctrotomes/monopolar coagulation catheters

6 **Nonsticky bipolar forceps – 2 Nos.**

7 Complete system should be European CE or US FDA approved

Schedule: 30

C Arm for ERCP

Technical Specifications : C- arm for ERCP

	Fully counterbalanced iso-centric C-arm having
a	Orbital movement : More than 110 degrees
b	Angulation : At least 135 degrees
c	Horizontal Movement : More than 190mm
d	Vertical movement : At least 40 cm motorized
e	Swivel range : ± 10 degrees
f	Source to I.I distance : 70 cm or more
g	Depth of immersion : 60cm or more
h	Free space within C-arm : At least 60 cm
2	X-Ray Parameters
a	Microprocessor controlled, high frequency x-ray generator not less than 1.4 KW or more with minimum 15 KHz or more frequency
b	The generator should be capable of providing a boost or a high dose fluoroscopic exposure at least 8 mA
c	The x-ray tube should have the facility for both fluoroscopy and radiography
d	The x-ray tube should have a **stationary** anode
e	The x-ray generator should have the facility for digital pulsed fluoroscopy with a pulse rate of **minimum 7 pulses per seconds.**
f	The x-ray generator should have the facility of half dose
	The equipment should also provide the following
g	Fluoroscopy : 40-110kV; **minimum 6mA**
h	Digital radiography mode : 40-110 kV; **minimum 21 mA**
i	Automatic dose rate control
j	Additional safety filtration for scattered radiation
k	An integrated laser light localizer, radiation free collimation

l		Multifunction foot switch to control all operation modes and single image storage out of the sterile field
m		Inbuilt heat management capabilities for long interventional procedures
n		The system should operate in full capacity on 220volts AC, 15 Amp
3	**TV System**	
	a	Image intensifier should be of dual mode, minimum 9 size, with zoom facility
	b	The television camera should be of CCD type with acquisition in 1024x1024K
	c	The camera gain and iris collimator should be computer controlled
	d	The system should have at least two 17 TFT/ LCD monitors with brightness of atleast 400 cd/m2
	e	Image inversion – right-left, top-down
	f	Cable free rear side
4	**Image processing**	
	a	Automatic dose level selection
	b	Automatic image parameter selection with provision to change over to manual selection
	c	Image storage of minimum 1,00,000 images in a 1K x 1K matrix
	d	Image annotation facility, measuring of distances and angles
	e	Entering of demographic data of patients
	f	Support of all DICOM 3.0 functions
	i	DICOM ready
	ii	Storage
	iii	Send/ Receive
	iv	Print
	v	Work list
	vi	Query/ retrieve
	vii	For post processing, archiving and documentation

viii With CD and DVD in DICOM format

ix With USB in DICOM and BMP format

5 **Accessories**

a. Lead aprons (0.5 mm lead Eq) : 5 Nos

b. Thyroid shields : 5 Nos

c. Gonadal shields : 5 Nos

d. Thin LCD view box 2 films of minimum 17 size : 2 Nos

e. Suitable UPS for the system with at least 30 minutes battery back up

Both C-arm and imaging table offered should be European CE or US FDA approved Offered C-arm should be AERB type approved

e-LORA registration of vendor with respect to quoted model is must

GENERAL TECHNICAL SPECIFICATIONS

GENERAL POINTS:

1. Warranty:

   a) Five years Comprehensive Warranty as per Conditions of Contract of the TE document for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) Warranty period will be 5 years from the date of installation, commissioning and Turnkey Work from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/Institution/Medical College.
   b) 98% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.
   c) All software updates should be provided free of cost during Warranty period.

2. After Sales Service:

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

3. Training:

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

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

   a) The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual of the manufacturer, labour and spares, after satisfactory completion of Warranty period 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.

Section – VIII
Quality Control Requirements

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

Tender Reference No.

Date of opening

Time

Name and address of the Tenderer:

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

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

02 Plant and machinery details

03 Manufacturing process details

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

05 Total annual turn-over (value in Rupees)

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

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

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

Signature and seal of the Tenderer

Section – IX
Qualification Criteria

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

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

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

Note:

1. The tenderer shall give an affidavit as under:

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

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

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

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

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

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

PROFORMA 'A'
PROFORMA FOR PERFORMANCE STATEMENT

(For the period of last five years)

Tender Reference No. : _____

Date of opening : _____

Time : _____

Name and address of the Tenderer : _____

Name and address of the manufacturer : _____

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

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

Signature and seal of the Tenderer

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

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

Section – X
TENDER FORM

Date_____

To

SVP (GB), HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector -62, Noida -201307, Uttar Pradesh

Ref. Your TE document No. _____dated _____

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

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

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

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

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

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

(Signature with date)

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

SECTION – XI PRICE SCHEDULE

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

1	2	3	4	5							6
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Rs.)							Total Price (at Consignee Site) basis (Rs.)
				Ex - factory/ Ex -warehouse /Ex-showroom /Off - the shelf (a)	Excise Duty (if any) [%age & value] (b)	Sales Tax/ VAT(if any) [%age & value] (c)	Packing and Forwarding charges (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	4 x 5(g)

Total Tender price in Rupees: _____

In words: _____

Note: -

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

Name_____

Business Address_____

Place: _____ **Signature of Tenderer_____**

Date: _____ **Seal of the Tenderer_____**

B) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

1	2	3	4				5				6
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)				Price per unit (Currency)				Total price on CIP Named Port of Destination + Insurance (local transportation and storage) 4X 5 (e)
				FOB price at port/ airport of Lading	Indian Agency Commission (% of FOB)* *	Net FOB (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 @ 11.64% and 2% C& F charges will be added to the CIP price to arrive at the DDP price for evaluation purpose.

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

Name_____
Business Address_____
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	6
Schedule No.	**BRIEF DESCRIPTION OF GOODS**	**QUANTITY. (Nos.)**	**Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*.**					**Total Annual Comprehensive Maintenance Contract Cost for Each Unit for 5 years (4a+4b+4c+4d+4e)**	**Annual Comprehensive Maintenance Contract Cost for 05 years (3 x 5)**
			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. **"Whether service tax on CMC is inclusive or extra ,if extra, indicate the present rate....."**.In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
4. Cost of CMC will be added for Ranking/Evaluation purpose.
5. The payment of CMC will be made as per clause GCC clause 21.1 (D).
6. The uptime warranty will be 98 % on 24 (hrs) X 7 (days) X 365 (days) basis or as stated in Technical Specification of the TE document.
7. All software updates should be provided free of cost during CMC period.
8. The stipulations in Technical Specification will supersede above provisions
9. The supplier shall keep sufficient stock of spares required during Annual Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

Name_____

Business Address_____

Place: _____ **Signature of Tenderer**_____

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

D) PRICE SCHEDULE FOR TURNKEY

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

Note: -

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

Name_____

Business Address_____

Place: _____ **Signature of Tenderer**_____

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

SECTION – XII
QUESTIONNAIRE

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

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

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

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

SECTION – XIII

BANK GUARANTEE FORM FOR EMD

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

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

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

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

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

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

SECTION – XIV

MANUFACTURER'S AUTHORISATION FORM

SVP (GB),
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

SVP (GB),
HLL Lifecare Limited, Procurement and Consultancy Division
B-14 A, Sector -62, Noida -201307, Uttar Pradesh

WHEREAS _____ (Name and address of the supplier) (Hereinafter called "the supplier") has undertaken, in pursuance of contract no_____ dated _____ to supply (description of goods and services) (herein after called "the contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognised by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

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

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of. _____ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

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

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

This guarantee shall be valid up to 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. Hospital authorised official)

_____

(Signature, name and address of Hospital authorised official)

For and on behalf of_____

Received and accepted this contract

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

For and on behalf of _____

(Name and address of the supplier)

(Seal of the supplier)

Date: _____

Place: _____

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

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

1) Contract No. & date :_____

2) Supplier's Name :_____

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

4) Name of the item supplied :_____

5) Quantity Supplied :_____

6) Date of Receipt by the Consignee :_____

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

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

9) Seal of the Consignee :_____

SECTION – XVIII
Proforma of Final Acceptance Certificate by the Consignee

No_____ **Date_____**

To
M/s _____
_____
_____

Subject: Certificate of commissioning of equipment/plant.

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

(a) Contract No_____ dated_____

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

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

(d) Quantity: _____

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

(f) Name of the vessel/Transporters:_____

(g) Name of the Consignee:_____

(h) Date of commissioning and proving test:_____

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

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

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

The supplier has fulfilled its contractual obligations satisfactorily ## or

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

a) He has not adhered to the time schedule specified in the contract in dispatching the documents/ drawings pursuant to 'Technical Specifications'.
b) He has not supervised the commissioning of the equipment(s)/plant(s)in time, i.e. within the

period specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).

c) The supplier as specified in the contract has not done training of personnel.

The extent of delay for each of the activities to be performed by the supplier in terms of the contract is

The amount of recovery on account of non-supply of accessories and spares is given under Para no.02.

The amount of recovery on account of failure of the supplier to meet his contractual obligations is_____ (here indicate the amount).

(Signature)
(Name)
(Designation with stamp)

Explanatory notes for filling up the certificate:

i) He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.

ii) He has supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the time specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).

iii) Training of personnel has been done by the supplier as specified in the contract.

iv) In the event of documents/drawings having not been supplied or installation and commissioning of the equipment(s)/plant(s) having been delayed on account of the supplier, the extent of delay should always be mentioned in clear terms.

SECTION – XIX
ANNEXURES

Annexure 1

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

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

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

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

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

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

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

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

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

For the purpose of ascertaining the availability of suitable Indian vessels and granting dispensation in the event of their non-availability, the Seller should give adequate notice about the readiness of each consignment from time to time at least six weeks in advance of the required position to M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) and also endorse a copy thereof to the Shipping Co-ordination Officer,

Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)
The seller should arrange shipment through the Government of India's Forwarding Agents M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) or obtain certificate from them to the effect that shipment has been arranged in accordance with the instructions of the Ministry of Surface Transport, (TRANSCHART), New Delhi.

(d) SHIPMENT FROM POLAND & CZECHOSLOVAKIA

(i) IMPORTS FROM POLAND

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

(ii) IMPORTS FROM CZECHOSLOVAKIA

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

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

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

(f) SHIPMENT FROM JAPAN

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

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

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

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

The Seller shall arrange shipment of the goods by Indian flag vessels to the maximum extent possible subject to a minimum of 50 %. For the purpose of ascertaining the availability of suitable Indian vessels, the seller shall give adequate notice of not less than six weeks about the readiness of each consignment to the Shipping Purchaser of India Ltd., SHIPPING HOUSE, 245, Madame Cama Road, Bombay – 400 021 (CABLE: SHIPINDIA BOMBAY) and also endorse a copy thereof to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

(h) SHIPMENT FROM PAKISTAN

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

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

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

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

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

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

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

If the Seller finds that the space in the vessels of these Lines is not available for any particular consignments, he should inform the Shipping Co-ordination Officer, Ministry of

Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159) immediately so that dispensation from the shipping lines concerned to use alternative lifting may be sought.

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

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

2. BILLS OF LADING

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

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

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

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

(ii) F.O.R SHIPMENTS

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

SHIPPER: The F.O.R suppliers Concerned

CONSIGNEE: Supplier's Indian Agent on order

Note:

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

SECTION – XX
CHECKLIST

Name of Tenderer:

Name of Manufacturer:

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

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
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?			
13.	Have you submitted the certificate of incorporation?			
14.	Have you accepted the warranty as per TE document?			
15.	Have you accepted terms and conditions of TE document?			

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
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 latest purchase order copies supplied to AIIMS, PGIMER, JIPMER or Institute of National importance for the specific model quoted along with the price bid			

N.B.

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

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

(Signature with date)

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

(Name, address and stamp of the tendering firm)

Section – XXI
Consignee List

Consignee Code	Medical Institutions	Contact Address.	AirPort	Sea Port / Dry Port
DRPGMC	Dr. Rajendra Prasad Govt. Medical College, Tanda	The Principal Dr. Rajendra Prasad Govt. Medical College, Kangra at Tanda, Tanda – 176001 Himachal Pradesh Ph: 01892 – 267115, 2678640 Fax: 01892 - 267115	New Delhi	New Delhi (Tughlaqabad)
BDS PGIMS	Pt. Bhagwat Dayal Sharma University of Health Sciences, Rohtak and Pt. Bhagwat Dayal Sharma Post Graduate Institute of Medical Sciences, Rohtak	The Director Pt. B.D. Sharma PGIMS, Rohtak. Ph. 01262-211300 -03, 212641,212643 -46, 48 & 50 FAX: 01262-211308	New Delhi	New Delhi (Tughlaqabad)
JNMC	Jawahar Lal Nehru Medical College, Aligarh (Aligarh Muslim University)	The Principal Jawahar Lal Nehru Medical College, Aligarh Muslim University Aligarh -202001 Uttar Pradesh Ph: 0571-2721165 Fax: 0571-2720039	New Delhi	New Delhi (Tughlaqabad)
GMCA	Government Medical College, Amritsar	The Principal Government Medical Collage Amritsar Circular Road, Amritsar Punjab 143001 Ph: 0183 257 2304	New Delhi	New Delhi (Tughlaqabad)

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