

BIDDING DOCUMENT

(Two Bid System for Machinery & Equipment)

FOR
**NATIONAL CANCER INSTITUTE
ALL INDIA INSTITUTE OF MEDICAL SCIENCES
(JHAJJAR CAMPUS)**

NIB Ref: HITES/PCD/NCI-AIIMS/14/18-19



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SECTION -I**NOTICE INVITING BIDS (NIB)
(GLOBAL)****ALL INDIA INSTITUTE OF MEDICAL SCIENCES**

Ansari Nagar, New Delhi-110 029

NIB Ref: HITES/PCD/NCI-AIIMS/14/18-19**Dated: 13.04.2018**

Procurement & Consultancy Services Division of **HLL INFRA TECH SERVICES LIMITED** (a fully owned subsidiary of HLL Lifecare Ltd., a Govt. of India Enterprise) for and on behalf of **Director, AIIMS - New Delhi**, invites e-tenders in two bid system (technical and price bid) from the reputed, eligible & qualified firms/ manufacturers for purchase/supply of following goods at **National Cancer Institute Jhajjar, Haryana (AIIMS, New Delhi-29)**.

Sl. no.	Rfx no.	Short Description of goods	Quantity (Nos.)	Bid Security (BS) (Rs.)	Tender Processing Fee incl. GST (Rs.)
1	3000002776	Electro Surgical Diathermy Unit with Standard Accessories	12	2,40,000	3,540
2	3000002777	Advanced Electro Surgical Unit with Vessel Sealing	6	3,60,000	3,540
3	3000002778	Combined ultrasonic cutting & coagulation device with advanced Radio-Frequency energy	6	3,60,000	3,540
4	3000002779	Full HD Video Endoscope System (2 nos.) with Endoscopic Ultrasound System (1 no.)	1	7,00,000	3,540
5	3000002781	Semi-Rigid Video Thoracoscope System	2	1,80,000	3,540
6	3000002782	Full HD Video Bronchoscope System with Endobronchial Ultrasound System	1	3,60,000	3,540
7	3000002783	Adult and Pediatric Reusable Flexible Intubation Video Endoscope with Screen	1	2,00,000	3,540
8	3000002784	Video Cystoscope	2	1,80,000	3,540
9	3000002785	Flexible Nasopharyngolaryngoscope	2	60,000	3,540
10	3000002786	Flexible Hystero-Fiberscope set	1	8,000	590
11	3000002787	Hysteroscope System	1	90,000	3,540
12	3000002788	Digital Video Colposcopy System	2	60,000	3,540
13	3000002789	Rigid Ductoscope	2	60,000	3,540
14	3000002790	Rigid Bronchoscope	2	2,00,000	3,540
15	3000002791	Rigid Cysto-Resectoscope	2	20,000	590

16	3000002792	Rigid Proctoscope	2	12,000	590
17	3000002793	Rigid Sigmoidoscope	2	20,000	590
18	3000002794	Direct Rigid Laryngoscope	2	4,000	590
19	3000002795	Endoscopy washer & disinfectant system	2	1,00,000	3,540
20	3000002796	Video Laparoscopy set HD System	2	4,00,000	3,540
21	3000002797	Video Laparoscopic set 3D system	1	3,00,000	3,540
22	3000002798	Video-Laryngoscope for Surgical Oncology	7	70,000	3,540
23	3000002799	Video laryngoscope for Onco Anesthesia	10	5,00,000	3,540
24	3000002800	VATS (Video Assisted Thoracoscopy Surgery) & Mediastinoscopy set with Full HD camera & Recording device	2	2,80,000	3,540
Pre-bid conference meeting with prospective bidders		Venue for pre-bid meeting	Sr. no. of goods		Date & Time of pre-bid meeting
		Committee Room (No. 149), 1st Floor, Dr. BRAIRCH Building, AIIMS, New Delhi-29.	Item no. 01 to 03		19.04.18 at 04:00 PM
			Item no. 04 to 24		24.04.18 at 02:30 PM
Last date and time of online submission of tender			14.05.2018 at 12:00 Noon		
Last date and time of physical submission of EMD, Tender processing Fee, any other document specified in the Bidding Document			14.05.2018 at 2:00 PM		
Date of tender Opening			14.05.2018 at 2:30 PM		
Contact Person			Project Officer: DVP(PCD), HITES Email: hll.ncij@hllhites.com		
<p>2. Interested bidders are advised to download the complete Tender Enquiry document from the websites www.hllhites.com or www.lifecarehll.com or www.eprocure.gov.in/cppp or https://etender.lifecarehll.com/irj/portal for complete details.</p> <p>3. 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 (excluding non-working days). In order to submit the bids electronically, bidders are required to have a valid Class 3-B Digital Signature Certificate (signing and encryption/decryption certificates).</p> <p>4. Bidders are requested to read the bidders help document on e-tender web site link before proceeding for bidding.</p> <p>5. Post receipt of User ID & Password, Bidders can log on for downloading & uploading tender document.</p> <p>6. The bidders shall submit the required Tender Processing Fee (in form of Demand Draft or Banker's Cheque) and EMD (as per GIT clause no. 19.3) in physical form in favour of 'HLL Infra Tech Services Limited' at the scheduled time and venue. Tender processing Fee is required from all the bidders irrespective of their registration with</p>					

NSIC or any other Govt. organisation.

7. The online submission of tender(s) can only be done through <https://etender.lifecarehll.com/irj/portal>
8. All prospective bidders (maximum two representative of a firm bearing ID proof issued by their firm) may attend the Pre-bid conference meeting. The venue, date and time indicated above.
9. Bidders shall ensure that their tender(s), complete in all respects, are submitted online through HLL's e-portal (as described above) **ONLY. No DEVIATION is acceptable.**
10. Tender Processing Fee and Bid Security (BS) in original should be deposited within the scheduled date & time in the Tender Box located at: **HLL Infra Tech Services Limited, Procurement and Consultancy Services Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh.**
11. Prospective bidders are advised to browse the above websites regularly before submission of their bids as any further amendments will be published in these websites only.

CEO (HITES)

SECTION - II**GENERAL INSTRUCTIONS TO BIDDERS (GIB)
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GENERAL INSTRUCTIONS TO BIDDERS (GIB)

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 means HLL INFRA TECH SERVICES LIMITED (HITES) for and on behalf of The Director, AIIMS, New Delhi.
- ii. "Bid" means Quotation / Tender received from a Firm / Tenderer / Bidder.
- iii. "Bidder" means Tenderer/ the Individual or Firm submitting Bids / Quotation / Tender
- iv. "Supplier" means the individual or the firm supplying the goods and services as incorporated in the contract/purchase order.
- v. "Goods" means all articles, material, commodity, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, vehicles, medicines, assemblies, sub-assemblies, accessories, intangible products like software, technology transfer, licenses, patents or other intellectual properties purchased or otherwise acquired for the use of Government but excludes books, publications, periodicals, etc. for a library. The term 'goods' also includes works and services which are incidental or consequential to the supply of such goods, such as, transportation, insurance, installation, commissioning, training and maintenance.
- vi. "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.
- vii. "Bid Security" (BS) means Earnest Money Deposit / monetary or financial guarantee to be furnished by a bidder along with its tender.
- viii. "Contract" means the written agreement entered into between the purchaser and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.
- ix. "Performance Security" means monetary or financial guarantee to be furnished by the successful bidder for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
- x. "Consignee" means the Center/Hospital/Department/Sections /person to whom the goods are required to be delivered as specified in the Contract.
- xi. "Specification" also called Technical Specifications means the document/standard that prescribes the requirement with which goods or service has to conform.
- xii. "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 mentioned in the contract to determine conformity.
- xiii. "Day" means calendar day.

1.3 Abbreviations:

- (i) "NIT" means Notice Inviting Tenders.
- (ii) "GIB" means General Instructions to Bidders
- (iii) "SIT" means Special Instructions to Bidders

- (iv) "GCC" means General Conditions of Contract
- (v) "SCC" means Special Conditions of Contract
- (vi) "LC" means Letter of Credit
- (vii) "DP" means Delivery Period
- (viii) "BG" means Bank Guarantee
- (ix) "GST" means Goods & Service Tax
- (x) "CD" means Custom Duty
- (xi) "BL" means Bill of Lading
- (xii) "FOB" means Free on Board
- (xiii) "CIF" means Cost, Insurance and Freight
- (xiv) "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.
- (xv) "INCOTERMS" means International Commercial Terms as on the date of Bid Opening
- (xvi) "CAMC" means Comprehensive Annual Maintenance Contract (labour, spare and preventive maintenance)

2. Introduction

- 2.1 The Purchaser has issued these Bidding 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 Instructions to Bidders") provides the relevant information as well as instructions to assist the prospective bidders in preparation and submission of bids. It also includes the mode and procedure to be adopted by the bidder for receipt and opening as well as scrutiny and evaluation of bids and subsequent placement of contract.
- 2.3 The bidder shall also read the Special Instructions to Bidders (SIB) related to this purchase, as contained in Section III of these documents and follow the same accordingly. Whenever there is a conflict between the GIB and the SIB, the provisions contained in the SIB shall prevail over those in the GIB.
- 2.4 Before formulating the bid and submitting the same to the purchaser, the bidder should read and examine all the terms, conditions, instructions, checklist etc. contained in the Bidding Document. Failure to provide and/or comply with the required information, instructions etc. incorporated in these Bidding Documents may result in rejection of its Bid.

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 Bid

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

5. Eligible Bidders

- 5.1 This Invitation for Tenders is open to all bidder 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. Bid Expense

- 7.1 The bidder shall bear all costs and expenditure incurred and/or to be incurred by it in connection with its bid including preparation, mailing and submission of its bid 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 bidding process.

B. TENDER ENQUIRY DOCUMENTS

8. Content of Tender Enquiry Documents

- 8.1 In addition to Section I – “Notice Inviting Tender” (NIT), the Bidding Documents include:

Section II	– General Instructions to Bidders (GIB)
Section III	– Special Instructions to Bidders (SIB)
Section IV	– General Conditions of Contract (GCC)
Section V	– Special Conditions of Contract (SCC)
Section VI	– List of Requirements
Section VII	– Technical Specifications& General Points
Section VIII	– Qualification Criteria
Section IX	– Bid Form
Section X	– Price Schedules
Section XI	- Check List
Section XII	– Bank Guarantee Form for Bid Security
Section XIII	– Manufacturer’s Authorization Form
Section XIV	– Bank Guarantee Form for Performance Security/CAMC Security
Section XV	– Contract Forms A & B
Section XVI	– Proforma of Consignee Receipt Certificate
Section XVII	– Proforma of Consignee Acceptance Certificate by the consignee

- 8.2 The relevant details of the required goods and services, the terms, conditions and procedure for bidding, bid 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 bidders are expected to examine all such details etc to proceed further.

9. Amendments to a Bidding documents

- 9.1 At any time prior to the deadline for submission of bids, the purchaser may, for any reason deemed fit by it, modify the Bidding Documents by issuing suitable amendment(s) to it.

- 9.2 Such an amendment will be notified through CPPP (eprocure.gov.in/cppp) and/or www.hllhites.com and/or www.lifecarehll.com and will be binding on them.
- 9.3 In order to provide reasonable time to the prospective bidders to take necessary action in preparing their bids as per the amendment, the purchaser may, at its discretion extend the deadline appropriately for the submission of bids and other allied time frames, which are linked with that deadline.

10. Clarification of Bid document

- 10.1 A bidder requiring any clarification or elucidation on any issue of the Bidding 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 ten days (unless otherwise specified in the SIB) prior to the prescribed date of submission of Bids.

C. PREPARATION OF BIDS

11. Documents comprising the e-Bid

- 11.1 The bid(s) shall only be submitted online as mentioned below:

1. Technical Bid (Consisting of Techno-Commercial bids in excel format provided with the tender enquiry along with the supporting documents i.e. scanned copies of Tender Processing Fee, BID SECURITY, Eligibility Criteria & Technical Specifications viz. Product Specification Sheets/Brochures, OEM Certificate, etc.) have to be attached in the C-folder of e-tendering module. Bidders have to ensure that the documents uploaded in pdf and/or excel format or as per format instructed elsewhere are legible.
2. Price Bid has to be submitted in the prescribed excel format provided with the tender enquiry.

Note:

- a. The tender Processing fee and BID SECURITY has to be submitted in physical form as per Section – I, Notice Inviting Tender of this tender enquiry.
- b. The bidders have to follow the steps listed in Bidding Manual – Attachment Modem available in the Bidder Help Documents of e-tender portal login screen for uploading the Techno-Commercial Bid.

A) Techno-commercial Bid (Un-priced Bid)

(Bidders shall furnish the following information along with technical tender in pdf and/or excel format or as per format instructed elsewhere):

- i) Bid Security furnished in accordance with GIB clause 19.1 alternatively, documentary evidence as per GIB clause 19.2 for claiming exemption from payment of Bid Security.
- ii) Bid Form as per Section IX (without indicating any price).
- iii) Documentary evidence, as necessary in terms of clauses 5 and 17 of GIB establishing that the bidder is eligible to submit the bid and, also, qualified to perform the contract if its bid is accepted.
- iv) Bidder 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 bid in the Manufacturer's Authorisation Form.
- v) Power of Attorney in favour of signatory and/or who is digitally signing the bidding documents and signatory of Manufacturer's Authorization Form.
 - vi) Documents and relevant details to establish in accordance with GIB clause 18 that the goods and the allied services to be supplied by the bidder conform to the requirement of the bidding documents.
 - vii) Performance Statement as per section VIII along with relevant copies of orders and end users' satisfaction certificate.
 - viii) Price Schedule(s) as per Section X filled up with all the details including Make, Model etc. of the goods offered with prices blank (without indicating any prices).
 - ix) Documents confirming to Sole Proprietorship/Partnership/Private Limited Firm in the country of origin as the case may be.
 - x) Checklist as per Section XI.
 - xi) Copies of GST registration certificate and PAN Card.
 - xii) Copies of annual report, audited balance sheet and profit & loss account as per tender requirement.
 - xiii) Non conviction /no pending conviction certification issued by Notary on non-judicial stamp paper for preceding three years.
 - xiv) Notarized affidavit that bidder does not have any relation with the person authorized to evaluate technically or involve in finalizing the tender or will decide the use of tendered items.
 - xv) A self-declaration on Rs. 10/- non-judicial Stamp Paper that the rates quoted in the tender are the lowest and not quoted less than this to any Government Institution (State/Central/ other Institute in India).
 - xvi) Technical and Commercial Compliance statement in excel format provided in the e-tender portal.
 - xvii) Product catalogues/original Data Sheets for all quoted items.
 - xviii) Copies of quality certificates, if applicable, namely, BIS, ISO, FDA, CE, etc.

B) Price Tender:

Prices are to be quoted in the prescribed Price Bid format in excel provided along with the tender enquiry in the e-tender portal. The price should be quoted for the accounting unit indicated in the e-tender document.

Note:

- a) The bidder has to be diligent while filling up the Techno-commercial Bid and Price Bid provided in excel formats and must not tamper the contents of the sheets.
- b) It is the responsibility of bidder to go through the TE document to ensure furnishing all required documents in addition to above, if any.
- c) The bidders have to follow the steps listed in Bidding Manual – Attachment Mode available in the *Bidder Help Documents of e-tender portal login screen* for uploading the Price Bid.

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

- i. A 'Sole Proprietor' of the firm or constituted attorney of such Sole Proprietor.

- ii. In case of partnership firm he must have authority to quote & to refer to arbitration dispute concerning the business of the partnership either by virtue of the partnership agreement or a power of attorney;
- iii. Constituted attorney of the firm if it is a company.

Note:

1. In case of (ii) above, a copy of the partnership agreement duly registered with “Registrar of Firm’s” or general power of attorney, in either, case, attested by a Notary Public should be furnished, or affidavit on stamped paper of all the partners admitting execution of the partnership agreement or the general power of attorney should be furnished.
 2. In case of the partnership firms, where no authority to refer disputes concerning the business of the partnership has been conferred on any partner, the bid and all other related documents must be signed by every partner of the firm.
 3. A person signing the bid 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, liable for rejection of bid or cancel of contract and hold the signatory liable for all cost and damages.
- 11.3 A bid, 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.

12. Bid Currencies

- 12.1 The bidder supplying indigenous goods or already imported goods shall quote only in Indian Rupees.
- 12.2 For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only, if such services are to be performed/undertaken in India. Commission for Indian Agent, if any and if payable shall be indicated in the space provided for in the Price Schedule and will be payable in Indian Rupees only after satisfactory supply, installation and acceptance of the goods. The rate of conversion shall be taken as on the date of placement of purchase order.
- 12.3 Bids, where prices are quoted in any other way shall be treated as non-responsive and rejected.

13 Bid Prices

- 13.1 The Bidder shall indicate on the Price Schedule provided under Section X all the specified components of prices shown therein including the unit prices, applicable taxes and total bid 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 bidder, same should be clarified as “NA” by the bidder.
- 13.2 If there is more than one schedule in the “List of Requirements”, the bidder has the option to submit its bid for any one or more schedules and, also, to offer special

discount for combined schedules. However, while quoting for a schedule, the bidder 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 X.

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 packing charges and GST and Custom Duty 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 taxes and duty, which will be payable on the goods in India if the contract is awarded;
- c) Charges towards Inland Transportation, Insurance (local transportation and storage) would be borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;
- d) The price of Incidental Services (including installation & commissioning, supervision, demonstration and training), at the consignee site as mentioned in List of Requirements, Technical Specification and Price Schedule;
- e) The prices of Turnkey Work (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
- f) The price of CAMC, 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 on FOB at port/ FCA at airport of shipment, as mentioned in List of Requirements, Technical Specification and Price Schedule
- b) The amount of Freight and Insurance (port of loading to port of entry) and other incidental costs.
- c) The price of Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site as mentioned in List of Requirements, Technical Specification and Price Schedule.
- d) The price of Extended Insurance (local transportation and storage) from port of entry to the consignee site for a period including 3 months beyond date of delivery.
- e) The Unit Price on CIP Name port of Destination + Extended Insurance (local transportation and storage)
- f) The price of total Price on CIP Named port of Destination +Insurance (local transportation on and storage)
- g) The prices of Turnkey Work (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
- h) The price of CAMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.5 Additional information and instruction on Taxes and Duties:**13.5.1 GST (Goods & Services Tax)**

If the bidder desires to ask for GST (goods and services tax) to be paid extra, the same must be specifically stated. In the absence of any such stipulation, the price will be taken inclusive of GST and no claim for the same will be entertained later.

13.5.2 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 Bidding Document, the terms FCA, FOB, CIF, CIP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS - 2010, published by the International Chamber of Commerce, Paris

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

14. Indian Agent

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

- a) The complete name and address of the Indian Agent.
- 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 CAMC period.

15. Firm Price

15.1 Unless otherwise specified in the SIB, prices quoted by the bidder 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 GIB clause 13 will apply.

16. Alternative Models

16.1 Alternative Models are permitted. The Bidder can quote alternate models meeting the specifications of the bidding document of same manufacturer with single Bid Security.

- 16.2 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 ATE for the same item/product. In a bid, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same models in the same ATE.
- 16.3 One Principal/OEM cannot authorize two agents simultaneously for the same item against same ATE.

17 Documents Establishing Bidder's Eligibility and Qualifications

- 17.1 Pursuant to GIB clause 11, the bidder shall furnish, as part of its bid, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its bid is accepted.
- 17.2 The documentary evidence needed to establish the bidder's qualifications shall fulfill the following requirements:
- a) In case the bidder offers to supply goods, which are manufactured by some other firm, the bidder has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The bidder shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XIII in this document.
 - b) In case the bidder 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 Bidding Document.

- 18.1 The bidder shall provide in its bid the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the bid fully conform to the goods and services specified by the purchaser in the Bidding Documents. For this purpose the bidder shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the Bidding Documents to establish technical responsiveness of the goods and services offered in its bid.
- 18.2 In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the bidder, the bidder shall list out the same in a chart form without ambiguity and provide the same along with its bid.
- 18.3 If a bidder furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its bid will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

19. Bid Security (BS)

- 19.1 Pursuant to GIB clauses 8.1 and 11.1 A (i) the bidder shall furnish along with its bid, Bid Security for amount as shown in the Notice Inviting Bids (NIB). The Bid Security is required to protect the purchaser against the risk of the bidder's unwarranted conduct as amplified under sub-clause 19.7 below.

- 19.2 The bidders who are currently registered with MSME for the specific goods as per bidding document specification shall be eligible for exemption from Bid Security as defined in MSE Procurement Policy issued by the department of MSME. In case the bidder falls in this category, the bidder shall enclose relevant certificate of registration issued by department of MSME.
- 19.3 The Bid Security shall be denominated in Indian Rupees or equivalent currencies as per GIB clause 12.2. The Bid Security shall be furnished in one of the following forms:
- i) Account Payee Demand Draft/ Banker's cheque
 - ii) Fixed Deposit Receipt
 - 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 bidder, in favour of the "....."(as indicated in the NIB) 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 bidder as per the format specified under Section XII in these documents.
- 19.5 The Bid Security shall be valid for a period of forty-five (45) days beyond the validity period of the bid. As validity period of Bid as per Clause 20 of GIB is 270 days, the Bid Security shall be valid for 315 days from Techno-Commercial Bid opening date.
- 19.6 The Bid Security of unsuccessful bidders will be returned without any interest, after expiry of the bid validity period, but not later than thirty days after conclusion of the resultant contract. The Bid Security of successful bidder will be returned without any interest, after receipt of performance security from that bidder.
- 19.7 Bid Security is required to protect the purchaser's right against the risk of the Bidder's conduct, which would warrant the forfeiture of the Bid Security. Bid Security of a bidder will be forfeited, if the bidder withdraws or amends its bids or impairs or derogates from the bid in any respect within the period of validity of its bid or if it comes to the notice that the information/documents furnished in its bid is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The Bid Security of the successful bidder 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 nationalized bank in India by way of back-to-back counter guarantee and the same should be submitted along with the bid.

20. Bid Validity

- 20.1 If not mentioned otherwise in the SIB, the bid shall remain valid for acceptance for a period of 270 days (Two hundred and Seventy days) after the date of bid opening prescribed in the Bidding Document. Any bid valid for a shorter period shall be treated as unresponsive and rejected.
- 20.2 In exceptional cases, the bidder may be requested by the purchaser to extend the validity of their bids up to a specified period. Such request(s) and responses thereto shall be conveyed by mail/fax/email. The bidders, who agree to extend the bid validity, are to extend the same without any change or modification of their original bid and they are also to extend the validity period of the Bid Security accordingly. A

bidder, who may not agree to extend its bid validity after the expiry of the original validity period, their bid will not be considered further and the Bid Security furnished by them shall be returned.

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

21. Signing and Sealing of Bid

- 21.1 The bidders shall submit their bids as per the instructions contained in GIB Clause 11.
- 21.2 Unless otherwise mentioned in the SIB, a bidder shall submit only one copy of its bid marking it as "Original". Bidders are requested to submit their Bids after binding and page numbering.
- 21.3 The Bid shall either be typed or written in indelible ink and the same shall be signed by the bidder or by a person(s) who has been duly authorized. The letter of authorization shall be by a written power of attorney, which shall also be furnished along with the bid.
- 21.4 All the documents of the bid shall be duly signed at the appropriate places as indicated in the Bidding Documents and all other pages of the bid including printed literature (if any), shall be initialled and stamped by the same person(s) signing the bid. The bid shall not contain any eraser or overwriting, except as necessary to correct any error made by the bidder and, if there is any such correction; the same shall be initialled and stamped by the person(s) signing the bid.
- 21.5 The bidder is to seal the bid and writing the address of the purchaser and the bid reference number on the envelopes. The sentence "NOT TO BE OPENED" before _____ (The bidder is to put the date & time of bid opening) are to be written on this envelope. If the envelope is not sealed and marked properly as above, the purchaser will not assume any responsibility for its misplacement, premature opening, late opening etc.
- 21.6 Bidding Document seeks quotation following "Two Bid System", in two parts. First part will be known as 'Techno-Commercial Bid', and the second part 'Price Bid' as specified in clause 11 of GIB. Bidders shall seal 'Techno-Commercial Bid' and 'Price Bid' separately and covers will be suitably super scribed. Both these sealed covers shall be than put in a bigger cover and sealed and procedure prescribed in Paras 21.1 to 21.5 be followed.

D. SUBMISSION OF BIDS

22. Submission of Bids:

- 22.1 Unless otherwise specified, the bidders are to drop the Bids in the tender box located at **HLL Infra Tech Services Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh** or the same shall be submitted by the bidder by hand to concerned Project Officer dealing hand or his nominee. The necessary entry will be made in the Bid Receipt Register.
- 22.2 The bidders must ensure that they submit the on-line bids within the scheduled closing date & time. They shall also ensure to submit the original Tender Processing Fee and Bid Security within its scheduled date & time. It is the

responsibility of the bidder to ensure that their Bids whether sent by post or by courier or by person, are dropped in the Tender Box by the specified clearing date and time. In the event of the specified date for submission of bid falls on / is subsequently declared a holiday or closed day for the purchaser, the bids will be received up to the appointed time on the next working day.

23. Late Bid:

- 23.1 A bid, which is received after the specified date and time for receipt of bids will be treated as “late bid” and will be ignored.

24. Alteration and Withdrawal of Bid

- 24.1 The bidder, after submitting its bid, is permitted to alter/modify its bid, within the deadline for submission of bids. Alterations/modifications to bids received after the prescribed deadline will not be considered.
- 24.2 No bid should be withdrawn after the deadline for submission of bid and before expiry of the bid validity period. If a bidder withdraws the bid during this period, it will result in forfeiture of the Bid Security furnished by the bidder in its bid.

E. BID OPENING

25. Opening of Bids:

- 25.1 The purchaser will open the bids at the specified date and time and at the specified place as indicated in the NIB.

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

- 25.2 Authorized representatives of the bidder, who have submitted bids on time may attend the bid opening provided they bring with them letter of authority from their bidder. The bid opening official(s) will prepare a list of the representatives attending the bid opening. The list will contain the representatives’ names & signatures and corresponding bidder’s names and addresses.
- 25.3 Two Bid System as mentioned in Para 21.6 above will be as follows. The “Techno - Commercial Bids” are to be opened in the first instance, at the prescribed time and date as indicated in NIB. These Bids shall be scrutinized and evaluated by the competent committee/authority with reference to parameters prescribed in the Bidding Document. During the Techno-Commercial Bid opening, the bid opening official(s) will read the salient features of the bids like brief description of the goods offered, Bid Security and any other special features of the bids, as deemed fit by the bid opening official(s). Thereafter, in the second stage, the Price Bids 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 Bid. The prices, special discount if any of the goods offered etc., as deemed fit by bid opening official(s) will be read out.

F. SCRUTINY AND EVALUATION OF BIDS**26. Basic Principle**

26.1 Bids will be evaluated on the basis of the terms & conditions already incorporated in the Bidding Document, based on which bids have been received and the terms, conditions etc. mentioned by the bidders in their bids. No new condition will be brought in while scrutinizing and evaluating the bids.

27. Scrutiny of Bids

27.1 The Purchaser will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required Bid Securities have been furnished, whether the documents have been properly signed stamped and whether the Bids are generally in order.

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

27.3 The Bids will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the Bidding Documents. The bids, which do not meet the basic requirements, are liable to be treated as non-responsive and will be rejected.

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

- (i) Bid form as per Section IX (signed & stamped) not enclosed.
- (ii) Bid is unsigned.
- (iii) Bid validity is shorter than the required period.
- (iv) Required Bid Security (Amount, validity etc.)/ Exemption documents have not been provided.
- (v) Bidder has quoted for goods manufactured by other manufacturer(s) without the required Manufacturer's Authorization Form as per Section XIII.
- (vi) Bidder 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) Bidder has not agreed to other essential condition(s) specially incorporated in the bidding document like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism, and applicable law.
- (viii) Poor/unsatisfactory past performance.
- (ix) Bidders who stand de-registered/banned/blacklisted by any Central Govt. Ministries/Departments/Hospitals/Institutes.
- (x) Bidder is not eligible as per Clauses 5, 6 & 17 of GIB.
- (xi) Bidder has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.
- (xii) Bidder has not agreed for the delivery terms and delivery schedule.

28. Minor Informality/Irregularity/Non-Conformity

28.1 If during the evaluation, the purchaser find any minor informality and/or irregularity and/or non-conformity in a bid, the purchaser will convey its observation on such 'minor' issues, which has not price implication, to the bidders by registered/speed post/ e-mail/fax etc. asking the bidder to respond by a specified date. If the bidder does not reply by the specified date or gives evasive

reply without clarifying the point at issue in clear terms, that bid will be liable to be ignored.

29 Discrepancies in Prices

- 29.1 If, in the price structure quoted by a bidder, 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 bidder 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 judgment of the purchaser, there is any such arithmetical discrepancy in a bid, the same will be suitably conveyed to the bidder by registered/speed post/email. If the bidder does not agree to the observation of the purchaser, the bid is liable to be ignored.

30. Qualification Criteria

- 30.1 Bids of the bidder, who do not meet the required Qualification Criteria prescribed in Section VIII, will be treated as non-responsive and will not be considered further.

31. Conversion of Bid currencies to Indian Rupees

- 31.1 In case the Bidding Documents permits the bidder to quote their prices in different currencies, all such quoted prices of the responsive bidder 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 Bid' opening.

33. Schedule-wise Evaluation

- 1.1 In case the List of Requirements contains more than one schedule, the responsive bids will be evaluated and compared separately for each schedule. The bid for a schedule will not be considered if the complete requirements prescribed in that schedule are not included in the bid. However, as already mentioned in GIB sub clause 13.2, the bidders 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 bidder for each schedule, subject to bidder (s) being responsive.

33. Comparison of Bids

- 33.1. Unless mentioned otherwise in Section – III – Special Instructions to bidder and Section – VI – List of Requirements, the comparison of the responsive Bids shall be carried out on Free Delivery at consignee site basis. The quoted Turnkey Work prices and CAMC prices will also be added for comparison/ranking purpose for evaluation. "Net Present Value (NPV) of the Comprehensive Annual Maintenance Contract Charges (CAMC) 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.” However the payment of CAMC shall be made to the successful bidder at approved rates.

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

- 34.1 Further to GIB Clause 33 above, the purchaser’s evaluation of a bid 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, GST which will be contractually payable (to the bidder), on the goods if a contract is awarded on the bidder; and
 - ii) in the case of goods of foreign origin offered from abroad, customs duty and GST which will be contractually payable (to the bidder) on the goods if the contract is awarded on the bidder.
- 34.2 The purchaser’s evaluation of bid will also take into account the additional factors, if any, incorporated in SIB in the manner and to the extent indicated therein.
- 34.3 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 Bids.

35. Bidder’s capability to perform the contract

- 35.1 The purchaser, through the above process of bid scrutiny and bid evaluation will determine to its satisfaction whether the bidder, whose bid has been determined as the lowest evaluated responsive bid 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.
- 35.2 The above-mentioned determination will, inter alia, take into account the bidder satisfying all the requirements of the purchaser as incorporated in the Bidding Document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the bidder in its bid as well as such other allied information as deemed appropriate by the purchaser.

36. Contacting the Purchaser

- 36.1 From the time of submission of bid to the time of awarding the contract, if a bidder needs to contact the purchaser for any reason relating to NIB/Bidding Document and / or its bid, it should do so only in writing.
- 36.2 In case a bidder attempts to influence the purchaser in the purchaser’s decision on scrutiny, comparison & evaluation of bids and awarding the contract, the bid of the bidder shall be liable for rejection in addition to appropriate administrative actions being taken against that bidder, as deemed fit by the purchaser.

G. AWARD OF CONTRACT

37. Purchaser’s Right to accept any bid and to reject any or all bids.

- 37.1 The purchaser reserves the right to accept in part or in full any bid or reject any or more bid(s) without assigning any reason or to cancel the bidding process and

reject all bids at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder(s).

38. Award Criteria

38.1 Subject to GIB clause 37 above, the contract will be awarded to the lowest evaluated responsive bidder decided by the purchaser in terms of GIB Clause 35.

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

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

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

40. Notification of Award

40.1 Before expiry of the bid validity period, the purchaser will notify the successful bidder(s) in writing, by registered / speed post or by fax/email (to be confirmed by registered / speed post) that its bid for Goods & Services, which have been selected by the purchaser, has been accepted, also briefly indicating there in the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful bidder must furnish to the purchaser the required Performance Security within thirty days from the date of dispatch of this notification, failing which the Bid Security will be forfeited and the award will be cancelled. Relevant details about the Performance Security have been provided in clause 5 of GCC under Section IV.

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

41. Issue of Contract

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

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

41.3 The Purchaser reserves the right to issue the Notification of Award consignee wise.

42. Non-receipt of Performance Security and Contract by the Purchaser

42.1 Failure of the successful bidder in providing Performance Security and/or returning contract copy duly signed in terms of GIB clauses 40 and 41 above shall make the bidder liable for forfeiture of its Bid Security and, also, for further actions by the Purchaser it as per the clause 24-Termination of default of GCC under Section IV.

43. Return of Bid Security

43.1 The Bid Security of the successful bidder and the unsuccessful bidder will be returned to them without any interest, whatsoever, in terms of Clause 19 of GIB.

44. Publication of Bid Result

44.1 The name and address of the successful bidder (s) receiving the contract(s) will be mentioned in the Website of AIIMS, CPPP and HITES.

H. CORRUPT OR FRAUDULENT PRACTICES

45. Corrupt or Fraudulent Practices

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

- (a) defines, for the purposes of this provision, the terms set forth below as follows:
 - (i) “corrupt practice” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and
 - (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among bidders (prior to or after Bid submission) designed to establish Bid 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 Bidder 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 BIDDERS
(SIB)**

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

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

Sl. No.	GIB Clause No.	Topic	SIB Provision	Ref. Page No.
A	1 to 7	Preamble	No Change	
B	8 to 10	Bidding Document	Change in GIB Clause no. 10.1	
	10.1	Clarification of Bid document	Changed as under	10
C	11 to 21	Preparation of Bids	Change in GIB Clause no. 11.1 (B), 19, 21.1	
	11.1		Additional Note 'd' as under	
	19		Additional para 19.9 as under	
	21.1		Changed as under	17
D	22 to 24	Submission of Bids	Guiding notes given as under	18
E	25	Bid Opening	No Change	
F	26 to 36	Scrutiny and Evaluation of Bids	No Change	
	33	Comparison of Bids	Additional para 33.2 as under	20
G	37 to 44	Award of Contract	No Change	
H	45	Corrupt or Fraudulent Practices	No Change	

10. Clarification of Bid document

10.1 A bidder requiring any clarification or elucidation on any issue of the TE documents may take up the same with the purchaser in writing in their letter head duly signed and scanned through email to hll.ncij@hllhites.com. The purchaser will respond to such request provided the same is received 2 (two) days prior to the Pre-bid Meeting Conference. Any queries/representations received after the pre-bid meeting will not be taken into cognizance.

11.1 (B) Price Tender:**Note:**

d) The Price is to be quoted for all the line items strictly as per the given price-bid format on the e-tender portal, failing which the bid shall be straight away rejected.

19. Bid Security (BS)

19.9 HITES Bank details for necessary issuance of ‘Structured Financial Messaging System (SFMS)’ in case the Bid Security (i.e. EMD) is submitted in the form of Bank Guarantee:

Name of the Beneficiary	Bank Details	IFSC Code
HLL INFRA TECH SERVICES LTD.	HDFC BANK LTD, NOIDA, UTTAR PRADESH	HDFC0000088

21. Digital Signing of e-Bid

21.1 The bidders shall submit their bids online as per the instructions contained in GIB Clause 11 and any other specific instruction mentioned in the e-Tender portal using the digital signature.

Instruction on submission of Bids

- i) All the documents pertaining to the event/RFx no. may be downloaded from the e-portal by clicking on the ‘**Technical RFx**’ option in the ‘top-left portion of the web-page’ when the RFx/event is in **Display Mode**.
- ii) All the necessary documents as prescribed in the NIB shall be prepared and scanned in different files (in PDF and/or Excel format or as per format instructed elsewhere) and uploaded for on-line submission of Proposal.
- iii) The scanned copies of Bid Processing Fee, Bid Security, all document(s)/ information(s) including the Financial Proposal should be uploaded **online only** in the prescribed format given in the designated e-tendering portal website. No other mode of submission shall be acceptable.

However, **Bid Processing Fee, Bid Security, Catalogue(s)/Data-sheet(s)** related to all quoted items must be submitted in original at the desired venue before the last date and time of physical submission as mentioned in the NIB.

- iv) 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.
- v) The Individual file size of uploading is restricted up to 5 MB. Bidders may upload multiple files (Not exceeding 5 MB individually) & give relevant file name indicating the contents.
- vi) The file name of price bid should not be different from the price bid format uploaded by the Bid inviting Authority in the e-portal. This can be downloaded from the **Notes & Attachment** under **Details** of item when the RFx/event is in **Display Mode** or as mentioned in point no. i) above.
- vii) **Bidders may simulate online bid submission (technical & financial) at least one week in advance of the bid submission deadline. No clarifications/troubleshooting regarding any problems being faced during bid submission online shall be entertained in the last week of bid submission.**

Qualification Criteria (Ref. GIB Clause 30.1)

The Purchaser reserves the right to ask for a free demonstration of the quoted equipment after giving reasonable time to the bidder at a pre-determined place acceptable to the purchaser or at site (in case of non-portable and heavy equipment) for technical acceptability as per the bidding document specifications, before the opening of the Price Bid.

33. Comparison of Bids

33.2 Unit Prices for all optional items/accessories/services (if any) asked in the tender specifications must be quoted separately by all the bidders in their price bid. Such unit prices after multiplying by the required quantity shall be added and taken into consideration for comparison and ranking of bids.

Added Para (Ref. GIB Clause 33 & 34):

The comparison of bids will be based on GIB Clause 33, 34 and if any, as specified in the Technical specification(s). However, at the time of award of contract, the value of award (bid value/contract value) shall be limited to the upfront charges payable by the exchequer for Supply, Installation, Testing & Commissioning value only on DDP basis which is inclusive of warranty (for number of years specified at section VI; List of Requirement, Part I) and any other item(s)/services detailed for upfront purchase in the technical specifications. The cost of any other parameters like CAMC price beyond the warranty period, cost of any Consumables, any other recurring expenditure, etc. which have been considered for ranking of bids or for freezing of rates shall not be part of tender/award/bid/contract value.

SECTION - IV**GENERAL CONDITIONS OF CONTRACT (GCC)
TABLE OF CLAUSES**

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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 Bidding 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 Thirty (30) days from date of the issue of notification of award by the Purchaser, the supplier, shall furnish Performance Security to the Purchaser for an amount equal to ten percent (10%) of the total value of the contract, valid up to

ninety (90) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations.

- 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 XIV of this document in favour of the Purchaser. The validity of the Fixed Deposit Receipt or Bank Guarantee will be for a period up to ninety (90) 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 CAMC security as per Performa in Section XIV, the amount of the performance security is liable to be forfeited. The needful will be done 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 Comprehensive Annual Maintenance Contract as per the 'Contract Form - B' in Section XV with respective consignees, 3 (three) months prior to the completion of Warranty Period. The CAMC will commence from the date of expiry of the Warranty Period.
- 5.6 Subject to GCC sub – clause 5.3 above, the Purchaser 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 CAMC security in favour of concerned Director AIIMS/Chief of Centres/MS of Hospital/Head of the Department/Dean as per the format in Section XIV.

6. Technical Specifications and Standards

- 6.1 The Goods & Services to be provided by the supplier under this contract shall conform 'Technical Specification' under Sections VII 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 transshipment (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 under Section VII 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 under Section VII 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, 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 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 re-submit the same to the purchaser's inspector for conducting the inspections and tests again.
- 8.4 In case the contract stipulates pre-dispatch 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 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-dispatch 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 recognized/ reputed agency like SGS, Lloyd, Bureau Veritas, TUV etc. prior to dispatch 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 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.

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 Free Delivery at Consignee's 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 warehouse to warehouse (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 warehouse to warehouse (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/End User, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actual 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/End User 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/End User 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/End User, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/End User.

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 CAMC 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, Demonstration, Trial run etc. of the goods.
- ii) Turnkey work (if any).
- iii) Training of Consignee's/End Users Doctors, Staff, operators etc. for operating and maintaining the goods.
- iv) Supplying required number of operation & maintenance manual for the goods.

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

The supplier shall send all the relevant dispatch documents well in time to enable the purchaser 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:

Within 24 hours of dispatch, the supplier shall notify the concerned Store Officer in AIIMS Clearing Agent and others concerned the complete details of dispatch and also supply following documents by air mail/ courier etc. with intimation by e-mail:

- a) Commercial Supplier's Invoice giving full details of the goods including quantity, value, etc.;
- b) Packing list;
- c) Certificate of country of origin;
- d) Bill of Lading/Airway Bill;
- e) Insurance Certificate; (if applicable)
- f) Manufacturer's guarantee and Inspection certificate; (if applicable)
- g) Inspection certificate issued by the Purchaser's Inspector; (if applicable)
- h) Any other document(s) as and if required in terms of the contract.

15. Warranty and CAMC

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 (except when the design adopted and/or the material used are as per the Purchaser's/Consignee's specifications) 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 include all spares, labour and preventive maintenance from the date of completion of the satisfactory installation and acceptance till warranty period.

15.3 The Comprehensive Annual Maintenance Contract shall include all spares, labour and preventive maintenance from the date of completion of the satisfactory installation and acceptance till warranty period.

15.4 Warranty as well as Comprehensive Annual Maintenance Contract will be inclusive of all accessories and turnkey work and it will also cover the following, wherever applicable:-

- All kinds of Motors.
- Plastic & Glass Parts against any manufacturing defects.
- All kinds of sensors.
- All kinds of coils, probes and transducers.
- Printers and imagers including laser and thermal printers with all parts.
- UPS including the replacement of batteries.
- Air-conditioners

15.5 In case of any claim arising out of this warranty and CAMC period 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 unless revised in SCC in Section V of Bidding Document.

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- 15.6 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 conditions laid down in the Bidding Document.
- 15.7 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 up to the completion of the original warranty period of the main equipment.
- 15.8 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.
- 15.9 During Warranty and CAMC 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.
- 15.10 The Purchaser/Consignee reserve the rights to enter into Comprehensive Annual Maintenance Contract between the Purchaser and the Supplier for the period as mentioned in Section VII, Technical Specifications after the completion of warranty period.
- 15.11 The supplier along with its Manufacturer, Indian Agent and the CAMC provider shall ensure continued supply of the spare parts for the machines and equipment supplied by them to the purchaser for 10 years from the date of installation and handing over.
- 15.12 The Supplier along with its Manufacturer 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 equipment/machines/goods etc. and shall always give the most competitive price for its machines/equipment 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 bid. Such notification, in its original bid 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 dispatch,
- 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 the supplier shall convey its views to the Purchaser within twenty-one days from the date of the supplier's receipt of the Purchaser'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 bid and incorporated in the contract except for any price adjustment authorized in the SCC.

20. Taxes and Duties

20.1 Supplier shall be entirely responsible for GST 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 through electronic transfer in NEFT/RTGS 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 Indigenous Goods (M&E) 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) Original copies of supplier's invoice showing contract number, goods description, quantity, packing list, unit price and total amount;

- (ii) Consignee Receipt Certificate as per Section XVI of bidding document in original issued by the authorized representative of the consignee;
- b) **On Acceptance:** Balance 25% payment would be made against “Installation and Acceptance Certificate” of goods to be issued by the End User subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise. “Installation and Acceptance Certificate” need to be issued by the concerned End User after installation, commissioning, testing and successful trial run (if applicable).
- B) Payment for Imported Goods (M&E):** Payment for foreign currency portion shall be made in the currency as specified in the contract in the following manner:
- a) **On Shipment:** 75% of the net FCA/CIP price (i.e. FCA/CIP price less Indian Agency commission) of the goods despatch by Sea/Air 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) Commercial Supplier’s Invoice giving full details of the goods including quantity, value, etc.;
 - ii) Packing list;
 - iii) Certificate of country of origin;
 - iv) Negotiable clean Bill of Lading/Airway Bill;
 - v) Insurance Certificate; (if applicable)
 - vi) Manufacturer’s guarantee and Inspection certificate; (if applicable)
 - vii) Inspection certificate issued by the Purchaser’s Inspector; (if applicable)
 - viii) Any other document(s) as and if required in terms of the contract.
- b) **On Acceptance:** Balance payment of 25% of net FCA/CIP price of goods would be made against “Installation and Acceptance Certificate” to be issued by the End User 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. “Installation and Acceptance Certificate” need to be issued by the concerned End User after installation, commissioning, testing and successful trail run (if applicable).
- c) Payment of Consumable Imported Goods/Reagents/Kits would be made 100% against “Installation and Acceptance Certificate” to be issued by the End User through Wire Transfer.
- d) **Payment of Incidental Costs:** Incidental costs till consignee site towards Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training),if applicable will be paid in Indian Rupees to the Indian Agent on submission of “Installation and Acceptance Certificate” by the End User.
- e) **Payment of Indian Agency Commission:** Indian Agency Commission (IAC) will be paid to the Authorised manufacturer’s agent in Indian rupees indicated in the contract (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation/exchange variation. The agency commission payment shall be made on submission of “Installation and Acceptance Certificate” by the End User.
- C) Payment of Civil/Electrical Works at site:** The payment related to Civil/Electrical Works at site will be made as indicated in the contract (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject

to further escalation/exchange variation. The payment for Civil/Electrical works shall be made on submission of "Installation and Acceptance Certificate" by the End User.

D) Payment for Comprehensive Annual Maintenance Contract Charges: The consignee will enter into CAMC with the supplier at the rates as stipulated in the contract. The payment of CAMC will be made on six monthly basis after satisfactory completion of said period, duly certified by the End User 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 of the bidding document valid till 3 months after expiry of entire CAMC period. The Performance Bank Guarantee for CAMC will be applicable in case of contract value is more than Rs. 10 lakh.

21.2 Terms of payment for imported goods

- 21.2.1 The supplier shall not claim any interest on payments under the contract.
- 21.2.2 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.
- 21.2.3 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, the charges thereof shall be borne by the supplier.
- 21.2.4 The payment shall be made in the currency/currencies authorised in the contract.
- 21.2.5 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date.
- 21.2.6 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.
- 21.2.7 While claiming reimbursement of duties, taxes etc. (like GST, sales tax, excise duty, custom duty) from the Purchaser, 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, the supplier shall refund to the Purchaser forthwith.

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 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 no 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 in writing about the same and its likely duration and make a request to the Purchaser for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser 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 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 GST 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 shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty and GST 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 for extension of delivery period and obtain the same before dispatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and/or any other expense related to such supply shall lie against the purchaser.

22.6 Passing of Property

22.6.1 The property in the goods shall not pass to the purchaser unless and until the goods have been delivered to the consignee in accordance with the 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 shall, without prejudice to other rights and remedies available to the Purchaser 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 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 without prejudice to any other contractual rights and remedies available to it the Purchaser, 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 pursuant to GCC sub-clauses 22.3 and 22.4.
- 24.2 The Performance Security in such cases will be forfeited.
- 24.3 Unless otherwise instructed by the Purchaser, 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.

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 in writing of such conditions and the cause thereof within twenty one days of

occurrence of such event. Unless otherwise directed by the Purchaser 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 is unable to fulfil its contractual commitment and responsibility, the Purchaser 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 reserves the right to terminate the contract, in whole or in part for its Purchaser'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. The notice shall also indicate inter alia, 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 following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser 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 GIB 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 Facsimile/email 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.
- 30.3 In the case of a dispute or difference arising between the Purchaser 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 to be appointed by the Director, AIIMS. 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 lakh (Rs. 1,00,000/-).
- 30.4 **Venue of Arbitration:** The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi, India.
- 30.5 **Jurisdiction of the court** will be from the place where the Bidding 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

- 32.1 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.
- 32.2 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. Fall Clause

Fall clause is a price safety mechanism. The fall clause provides that if the contract holder reduces its price or sells or even offers to sell the contracted goods of identical specification and terms & conditions to that of the contract, at a price lower than the contract price, to any person or organization during the currency of the Contract, the Contract price will be automatically reduced with effect from that date for all the subsequent supplies under the Contract and the contract amended accordingly.

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.

Any specific clause, mentioned in the technical specification shall prevail and will supersede the similar clause mentioned anywhere in the tender.

The warranty & CAMC period will be as mentioned in the list of requirement as per section VI of the Bidding Document.

SECTION- VI**LIST OF REQUIREMENTS****Part I:**

Sl. no.	Rfx/ Event number	Short Description of goods	Quantity	Warranty Period	CAMC period after warranty
1	3000002776	Electro Surgical Diathermy Unit with Standard Accessories	12	5 years	5 Years
2	3000002777	Advanced Electro Surgical Unit with Vessel Sealing	6	5 years	5 Years
3	3000002778	Combined ultrasonic cutting & coagulation device with advanced Radio-Frequency energy	6	5 years	5 Years
4	3000002779	Full HD Video Endoscope System (2 nos.) with Endoscopic Ultrasound System (1 no.)	1	5 years	5 Years
5	3000002781	Semi-Rigid Video Thoracoscope System	2	5 years	5 Years
6	3000002782	Full HD Video Bronchoscope System with Endobronchial Ultrasound System	1	5 years	5 Years
7	3000002783	Adult and Pediatric Reusable Flexible Intubation Video Endoscope with Screen	1	5 years	5 Years
8	3000002784	Video Cystoscope	2	5 years	5 Years
9	3000002785	Flexible Nasopharyngolaryngoscope	2	5 years	5 Years
10	3000002786	Flexible Hystero-Fiberscope set	1	5 years	5 Years
11	3000002787	Hysteroscope System	1	5 years	5 Years
12	3000002788	Digital Video Colposcopy System	2	5 years	5 Years
13	3000002789	Rigid Ductoscope	2	5 years	5 Years
14	3000002790	Rigid Bronchoscope	2	5 years	5 Years
15	3000002791	Rigid Cysto-Resectoscope	2	5 years	5 Years
16	3000002792	Rigid Proctoscope	2	5 years	5 Years
17	3000002793	Rigid Sigmoidoscope	2	5 years	5 Years
18	3000002794	Direct Rigid Laryngoscope	2	5 years	5 Years
19	3000002795	Endoscopy washer & disinfectant system	2	5 years	5 Years

Sl. no.	Rfx/ Event number	Short Description of goods	Quantity	Warranty Period	CAMC period after warranty
20	3000002796	Video Laproscopy set HD System	2	5 years	5 Years
21	3000002797	Video Laparoscopic set 3D system	1	5 years	5 Years
22	3000002798	Video-Laryngoscope for Surgical Oncology	7	5 years	5 Years
23	3000002799	Video laryngoscope for Onco Anesthesia	10	5 years	5 Years
24	3000002800	VATS (Video Assisted Thoracoscopy Surgery) & Mediastinoscopy set with Full HD camera & Recording device	2	5 years	5 Years

Part II: Required Delivery Schedule:

For Indigenous or Imported goods:

Supply, Installation and Commissioning to be completed within **90 days** from the date of NOA or date of opening of LC or date of approval of layout drawing (in case applicable), whichever is later.

(In case of LC opening, necessary documents like valid Performance Security and Proforma Invoice are to be submitted within 30 days from the date of release of NOA. In case layout drawing approval is applicable, it should be submitted by the supplier within 21 days from the date of release of NOA.)

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

Part V: Warranty period as per details mentioned in technical specification and as specified in Part I above. Warranty period will start from the date of installation, commissioning and acceptance.

Comprehensive Annual Maintenance Contract (CAMC) as per details in Technical Specification as specified in part I above. Comprehensive Annual Maintenance Contract (CAMC) will start from the date of successful completion of warranty period.

Part VI: Required Terms of Delivery and Destination.

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

Free Delivery at Consignee's Site(s)

b) For Imported goods directly from abroad:

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

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

- c) The Consignee details** are as under but the supplier is required to deliver the goods at the designated site in the floor and building of concerned Centers/Hospital/Departments:

Consignee	Site	Contact Address.	Air Port	Sea Port
NCI-AIIMS (National Cancer Institute – All India Institute of Medical Sciences)	Jhajjar Campus	Badsha Village Jhajjar, Haryana PIN - 124507	New Delhi	ICD Tuglakabad (for containerised shipments) Or ICD Patparganj

Note: The consignee will ensure timely issue of NMIC, CDEC etc., wherever applicable to the supplier.

SECTION - VII**TECHNICAL SPECIFICATION AND GENERAL POINTS****A. TECHNICAL SPECIFICATION:****Item No. 1 (Rfx/Event number 3000002776)****Electro Surgical Diathermy Unit with Standard Accessories**

The Micro-processor/microcontroller solid state based digital isolated electro surgical diathermy unit 300 – 400Watt with digital display push switch control provides Consistent performance compatible with Argon Coagulator system, designed for all open surgeries including liver resection with monopolar and bipolar modes available.

The following features are required:

1. Unit should have patient plate Contact Quality Monitoring System/REM System- the contact between Plate & Patient reduces it stops the HF delivery & gives error message with audio visual indications.
2. Unit should have power efficiency rating higher than 95% for patient safety and deliver accurate power.
3. Real time tissue impedance monitoring technology to deliver the selected power perfectly into a wide range of tissue types reducing thermal spread, RF interference and Neuro muscular stimulation and sparks.
4. The system should have facility to use two monopolar modes simultaneously
5. The system should have inbuilt Numeric Error system.
6. The system should have ability to restore last power setting for single button operational quality
7. There should be sufficient Coag modes to be present for all applications (Preferably 4 coag modes)
8. The Unit should be future ready and compatible to be used with Smoke Evacuator system, Argon Plasma Coagulator system.

Various modes in electrosurgical Unit:**Mono-polar Cut:**

Pure Cut: 300- 400 W

Low Cut: 300-400 W

Blend: 200 -250 W

Mono-Polar Coagulation:

Spray: 120 – 130 W

Fulgurate: 120 – 130 W

Desiccate: 120 – 130 W

Bipolar Coagulation:

Cut/Precise: 70-120 W

Force/Standard: 70-100

Micro/Macro: 70-100 W

Input Power source:

Operating Range: 170-260 V AC

Line Frequency: 50-60 Hz

Minimum High Frequency Leakage

Bipolar Less than 60 mA

Monopolar Less than 150 mA

Standard Accessories to be provided:

1. Disposable dual pad Polyadhesive Plate with cable (Adult & Paediatric)- 10 No. each
 2. Bipolar forceps with cable- 2 Nos
 3. Mono polar-hand switch pencil- 10 No
 4. Dual pedal foot switch for Mono-Polar- 1 no.
 5. Single pedal foots switch for bipolar- 1 no
 6. Power cord- 1 no
 7. Monopolar electrodes: blades, needle tips, ball tips – 10 Each
- The unit should comply with safety requirement of IEC60601-1 & IEC 60601-2-2 and test report for each power setting need to present.
 - Type CF Equipment (IEC 601 -1 & IEC 601-2-2) Defibrillator Proof US FDA and European CE certified with 4 digit notified body number.
 - Demonstration of the quoted model to be given if desired.
 - The bidder should quote prices of all the accessories and consumables separately and prices should be fixed for 5 years.

BOQ for Electrosurgical Diathermy Unit with standard accessories		
S.No.	Name of the Item	Qty
1	Electrosurgical Diathermy unit as per technical specifications excluding Accessories	1 no.
	Standard Accessories	
2	Disposable dual pad Polyadhesive Plate with cable (Adult & Paediatric)	10 nos. each
3	Bipolar forceps with cable	2 nos.
4	Mono polar-hand switch pencil	10 nos.
5	Dual pedal foot switch for Mono-Polar	1 no.
6	Single pedal foots switch for bipolar	1 no.
7	Power cord	1 no.
8	Monopolar electrodes: blades, needle tips, ball tips	10 nos.each

Item No. 2 (Rfx/Event number 3000002777)**Advanced Electro Surgical Unit with Vessel Sealing**

1. An integrated microprocessor/micro controller based system with 300W or more output generator and a single touch screen for Monopolar, Bi-Polar and Vessel Fusion integrated in one generator.
2. The System should have user friendly touch screen display with backlight adjustment for good visibility in operating room.
3. The system should make minimum 400000 measurements/feedbacks per second for better tissue effect and should measure tissue impedance through power peak system, on real time basis.
4. System should have minimum 2 monopolar output, 1 Bipolar output and 1 Vessel Sealing output
5. The Monopolar output must have pure Cut, Blend, Soft Coag, Fulgurate and Spray mode.
6. The Bi-Polar must have Low, Standard and Macro mode with Auto Bi-Polar control.
7. The system should have twin monopolar socket with independent power setting, the system should also have one universal adaptor socket for laparoscopic surgeries and one bipolar socket.
8. System should have remote or triverse function that allows user to change power from sterile field.
9. System should have separate monopolar, bipolar & Vessel Sealing foot pedal.
10. The system should have one different Vessel Fusion/thermoseal output which should be able to seal artery, veins along with tissue bundle up to and including 7mm in diameter, and fused vessels should be able to withstand minimum 360 mm hg of burst pressure.
11. The vessel sealing system should have simple audio-visual feedback display from the generator. This should include:
 - a. System Error Indicator
 - b. System status indicators such as Self-test, ready for use, ready for sealing/seal cycle complete, sealing in process
 - c. Seal cycle incomplete alert
 - d. System should have usage limit indicator
 - e. System should have instruments status indicator.
12. The vessel sealing system should support open and laparoscopic (shaft dia of both 5mm and 10mm) hand instruments
13. The vessel sealing hand instruments should have cutting feature independent of sealing.
14. The system should have demo mode facility and recall facility to recall the last setting used by user.
15. Should have minimum six combination of cutting and coagulation settings
16. System should be compatible of REM polyadhesive contact quality monitoring for patient safety with audio-visual alarm facility, to indicate any breakage of direct contact between the patient and patient plate.
17. All vessel sealing instruments (both open and laparoscopic) should be able to control thermal spread to less than 2.5mm.
18. All vessel sealing instrument activation should be controlled by both Footswitch and handheld button.
19. System should be Compatible with Argon system and smoke evacuator
20. System should be US FDA and European CE certified with 4 digit notified body number.
21. System should meet IEC60601-1, IEC60601-1-2 & IEC 60601-2-2 requirements.
22. The system should be upgradable and should have RS232, USB, Ethernet port for on field software downloads, upgrades and serviceability.
23. Accessories:
 - a. Monopolar, bipolar, vessel sealing Footswitches – 1 each
 - b. Disposable power controlled Hand switching pencils with cable – 10 nos.

- c. Reusable Monopolar cable and bipolar cables for connecting to Lap instruments – 2nos
 - d. Disposable curved/maryland Jaw vessel sealing instrument with cutting blade with shaft dia 5mm and length 34-47cms - 6pcs
 - e. Disposable curved/maryland vessel sealing hand instrument with cutting blade for open surgery with length 20-24cm - 6pcs
 - f. Disposable scissor type vessel sealing instrument curved shape within built cutting blade – 6pcs
- All quoted equipment, accessories and instruments should be from single manufacturer.
 - Quoted model and instruments should be the most recent and latest available in global market.
 - Demonstrated for the quoted model to be given if desired
 - The bidder should quote prices of all the accessories and consumables separately and prices should be fixed for 5 years.

BOQ for Advanced Electrosurgical Unit with Vessel Sealing		
Sl.No.	Name of the Item	Qty
1	Advanced Electrosurgical unit with vessel sealing as per technical specifications excluding Accessories	1 no.
	Standard Accessories	
2	Monopolar, bipolar, vessel sealing Footswitches	1 each
3	Disposable power controlled Hand switching pencils with cable	10 nos.
4	Reusable Monopolar cable and bipolar cables for connecting to Lap instruments	2 nos.
5	Disposable curved/maryland Jaw vessel sealing instrument with cutting blade with shaft dia 5mm and length 34-47cms	6 nos.
6	Disposable curved/maryland vessel sealing hand instrument with cutting blade for open surgery with length 20-24cm	6 nos.
7	Disposable scissor type vessel sealing instrument curved shape within built cutting blade	6 nos.

Item No. 3 (Rfx/Event number 300002778)**Combined Ultrasonic Cutting & Coagulation device with Advanced Radio-Frequency energy****A. Generator:-**

1. System should be a single generator with footswitch that provides Ultrasonic energy and Advanced RF energy technology for soft tissue dissection and vessel sealing.
2. Should have the ability to select hand switch or footswitch activation or both for Ultrasonic and advanced RF energy instruments and the ability to change selection during use can seal and transect vessel upto 7 mm with system feedback mechanism for better patient safety.
3. Should have very minimal lateral thermal with spread not more than 1 mm.
4. RF energy instruments compatible with generator should have controlled gap mechanism for uniform compression across the instrument jaw for better sealing and transection of vessels and tissue bundles upto 7 mm simultaneously.
5. Should have standby mode to ensure safety.
6. Should be able to power ultrasonic energy instruments with 55.5 KHz frequency.
7. Should be compatible for RF energy and ultrasonic energy instruments for open and laparoscopic surgery.
8. Should be able to power energy instruments with microprocessor controlled bipolar electro-surgical radiofrequency technology with a quasi-sinusoidal forced impedance output
9. Should be equipped with smart advanced RF energy technology to measure the tissue Impedance and control the power delivery and that can simultaneously seal and transect vessels up to 7 mm, large tissue pedicles and vascular bundles.
10. Should be compatible with articulating RF energy instruments with articulation of 55 degree either side and total of 110 degree of articulation with 360 shaft rotation and can simultaneously seal and transect vessels up to 7 mm, large tissue pedicles and vascular bundles with system feedback.
11. Should provide temperature controlled energy delivery which should maintain tissue temperature approximately at 100 degree Celsius and hand instruments that provide tissue/vessel seal strength to withstand bursting pressure of at least 7 times the systolic pressure.
12. Should be compatible with ultrasonic energy instruments which can simultaneously seal and transect vessels up to 7mm, large tissue pedicles and vascular bundles with ultrasonic energy only with system feedback.
13. All hand probes for open and lap procedures should be able to simultaneously cut and coagulate tissues and also works separately Curved Blade and Dissecting Hook having telescoping shaft (10cm-14cm) with integrated hand activation control buttons.
14. Should have the ability for software updates via USB memory stick.
15. Should conform to the following international standards EN (IEC) 60601-1, EN (IEC) 60601-1- 2, EN (IEC) 60601-2-2, EN (IEC) 60601-1-8 & System should be European CE approved with 4 digit notified body number and US FDA approved.
16. Should provide Class 1 protection against electric shock.
17. Should come equipped with system diagnostics and troubleshooting guide to pin point any problems in the system.
18. Well-equipped Service Center, should be ISO certified

B. Foot switch & cable

C. Accessories

1. Generator cart
 2. Adapters for ultrasonic and radiofrequency instruments – 2 Nos
 3. Hand piece/ Transducer compatible with various hand instruments used in open and laparoscopic surgeries – 2 Nos each.
 4. RF energy 5mm Lap and open Hand Activated probe capable of sealing blood vessels upto 7mm in diameter, 35 cm with 3mm curved tip and 5 mm straight tip with active articulation of 55 degree each side using articulation wheel and 360 degree knob rotation – 5 Nos each
 5. Ultrasonic 5mm Lap and open Hand Activated Curved Coagulating Shear with next generation adaptive tissue technology which gives regulated power delivery for improved thermal management and audible feedback tone for greater surgical efficiency, capable of sealing blood vessels upto 7mm in diameter using three hand-activation buttons – Max, Min & Advanced Hemostasis, proprietary non-stick coated active blade to reduce tissue sticking, 36 cm shaft length with ergonomic handle – 5 Nos each
- The firm should quote prices of all the accessories and consumable separately and prices should be fixed for 5 years
 - Demonstrated for the quoted model to be given if desired

BOQ for Combined ultrasonic cutting & coagulation device with advanced Radio-Frequency energy		
S.No.	Name of the Item	Qty
1	Combined ultrasonic cutting & coagulation device with advanced Radio-Frequency energy system & Foot Switches as per technical specification without accessories	1 no.
	Standard Accessories	
2	Generator cart	1 no.
3	Adapters for ultrasonic and radiofrequency instruments	2 nos.
4	Reusable Monopolar cable and bipolar cables for connecting to Lap instruments	2 nos.
5	Hand piece/ Transducer compatible with various hand instruments used in open and laparoscopic surgeries	2 nos. each
6	RF energy 5mm Lap and open Hand Activated probe capable of sealing blood vessels upto 7mm in diameter, 35 cm with 3mm curved tip and 5 mm straight tip with active articulation of 55 degree each side using articulation wheel and 360 degree knob rotation	5 nos. each
7	Ultrasonic 5mm Lap and open Hand Activated Curved Coagulating Shear with next generation adaptive tissue technology which gives regulated power delivery for improved thermal management and audible feedback tone for greater surgical efficiency, capable of sealing blood vessels upto 7mm in diameter using three hand-activation buttons – Max, Min & Advanced Hemostasis, proprietary non-stick coated active blade to reduce tissue sticking, 36 cm shaft length with ergonomic handle	5 nos. each

Item No. 4 (Rfx/Event number 3000002779)**Full HD Video Endoscope System (2 nos.)**
with Endoscopic Ultrasound System (1 no.)

Sl. No.	Name of the item	Qty
I	<u>The following equipment should be supplied with each Full HD Endoscope system</u>	
1	Full HD Gastrovideoscope with accessories	1 no.
	Gastro Video Scope:	
	Build in HDTV compatible CCD	
	Should have Chrome endoscopy imaging such as NBI/SPIES/I Scan/FICE or equivalent	
	Fully immiscible in disinfection solution	
	In build scope identification memory chip for monitor display of scope's model no serial no, white balancing memory, no. of connections/cumulative 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: 9.9mm or less for diagnostic	
b	Field of View/ Angle of view: Normal/Near Focus 140 Deg or more	
c	Direction of View: Forward viewing	
d	Depth of Field: Normal 4/5-100mm or better	
e	Distal End outer diameter: 9.9mm or less	
f	Angulation of Tip:	
	A) Upwards-210 Deg or more	
	B) Downwards-90 Deg or more	
	C) Right- 100 Deg or more	
	D) Left-100 Deg or more	
g	Instrument Channel >=2.8mm	
h	Working Length : 1000mm or more	
i	Total Length : 1400mm or more	
j	Minimum Visible Distance of instrument used through channel	
	Accessories:	
	a) Deleted	
	b) Hot Biopsy forceps with alligator cups with and without needle-3each	
	c) Retrievable basket -2 Nos	
	d) Deleted	
	e) Electrosurgical snare-2 each	
	f) Bipolar Probes-10 Each	
	g) Cleaning Brushes and channel opening brush- 5 each	
	h) Washing Pipe /Spray Cathetar-20 each with each scope	
	i) Injection Needle 21G/23G -10 with each scope	
	j) Grasping Forceps- Rat tooth, rubber tipped- 2 each	
	k) Rotable Clip fixing Device short and long- 5 each with one hundred single use clip.	
	l) Deleted	
	m) Deleted	
	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	

Sl. No.	Name of the item	Qty
2	Full HD Colonovideoscope with accessories	1 no.
	Colonovideoscope	
	Build in HDTV compatible CCD	
	Should have optical chrome endoscopy imaging such as NBI/SPIES/ISCAN/ FICE or equivalent	
	Inbuilt Feature like Variable/Graduated stiffness, High force transmission & Passive Bending for ease of Insertion.	
	Fully Immiscible in disinfectant memory Chip for monitor display of scope's model no. serial no., no. of connections/cumulative uses etc.	
	Inbuilt scope identification memory chip for monitor display of scope's model no. serial no, white balance memory, NO.OF CONNECTIONS/CUMMULATIVE USES ETC.	
	Auxiliary water Jet for mucosal cleaning	
	The scope should be the latest available in world market.	
a	Insertion Tube outer dia :13.2mm or less	
b	Field of view : 140 Deg or more	
c	Depth of field : 4/5-100 mm, Near 2-6mm or better	
d	Distal End outer Diameter : 13.2 mm or less	
e	Angulation of Tip:	
	A) Upwards: 180 Deg or more	
	B) Downwards: 180 Deg or more	
	C) Right : 160 Deg or more	
	D) Left : 160 Deg or more	
f	Instrument Channel -3.2 -3.8mm	
g	Working Length- 1600mm or more	
h	Total Length 2000mm or more	
i	Accessories compatible with working channel:	
	1) Biopsy Forceps with or without needle-10 each compatible with the channel	
	2) Polypectomy snare hexagonal and oval rotatable (2 Pack or 10 each)	
	3) Hot Biopsy Forceps reusable- 2 each	
	4) Electrosurgical snare- 2 each	
	5) Biopsy probes- 10 each	
	6) Cleaning brushes and channel opening brush - 5 each	
	7) Washing pipe/ spray Cathether-20 each with each scope	
	8) Injection needle 21G -10 with each scope	
	9) Rotable Clip fixing device short and long -5each with one hundred single use clip.	
	10) Hemo-clips -20 Each	
	11) Extra Suction aand air water buttons 5 Each	
	12) Biopsy channel valves- 2 packs of 100 each.	
3	Full HD Side Viewing Duodenovideoscope with accessories	1 no.
	Duodenovideoscope : - 1 Nos	
	Suitable for optical chrome endoscopy imaging such as NBI/SPIES/ISCAN/ FICE or equivalent	
	Fully Immerssible in Disinfectant solution	
	In build Scope identification memory chip for monitor display of scope's model No. serial non, no of connections/Cumulative uses etc.	
	Scope should be the latest available in the world Market.	
a	Field of view : 90-110 deg or more	
b	Direction of View: 5 Deg/ 10 Deg , backward oblique viewing	
c	Depth of Field: 4/5 to 60mm or better	

Sl. No.	Name of the item	Qty
d	Distal End outer diameter: 11-14 mm or less	
e	Insertion Tube Outer Diameter : 11-14 mm or less	
f	Angulation of Tip:	
	A) Upwards : 120 Deg or more	
	B) Downwards: 90 Deg or more	
	C) Right: 100 -110 deg or more	
	D) Left: 90 deg or more	
g	Working Length : 1.2-1.4 mtr	
h	Channel Inner Diameter: 4.2 mm or more	
i	Minimum Visible Distance : 10 mm or closer from Distal end	
j	ERCP Accessories compatible with instrument channel :	
	1) Single use bendable cannula-10 each	
	2) Single use Hydrophilic cannula guide-wire -10 each (Straight 2150mm working length and 70mm hydrophilic length/angled 4500mm length and 70mm hydrophilic length)	
	3) V-System TM Single use triple lumen sphincterotome.-10 each	
	4) V System single use triple lumen needle knives-10 each	
	5) V system single use triple lumen balloons-10 each	
	6) Flower basket V single use stone extraction basket-10 each	
	7) Tetra catch V single stone extraction basket-10 each	
	8) Reusable hard type dormia basket-10 each	
	9) Deleted	
	10) reusable Emergency Lithotripter-5 each	
	11) Single use cytology brush-20 each	
	12) single use high pressure biliary balloon dilators-20 each	
	13) single use inflation device for balloon dilators-4	
	14) Reusable stent removal forceps-20 each	
	15) Guidewires (5 each):	
	16) Exchange Wire (0.035 Fr, 450 cm length)	
	17) Wire with Hydraulic tip at both end along with radio opaque marker over the tip (0.35 Fr, 450 cm) (Hydra Jag)"	
	18) Needle Knife for ERCP Use (Precut) (Five) Triple Lumen , 7 Fr to 5.5 Fr monofilament (Micro Knife XL)	
	19) Biliary Cytology Brush : Double Lumen with radio opaque marker : 5	
	20) Biliary Balloon Dilators with Inflation device : Double Lumen with radio opaque marker (6mm, 8mm & 10mm) Two	
4	Full HD Sigmoidoscope with Accessories	1 no.
	Sigmoidoscope- 1 Nos	
	Clear, sharp, high quality images in a large size display	
	Ergonomically designed grip to enhance scope maneuverability	
	Four user programmable switches to improve operability.	
	Large Field of view of 140 Deg for better and close observation.	
	Large 3.7mm or more 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 deg or more	
	2) Direction of View: Forward viewing	
	3) Depth of Field:3 to 100mm 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	

Sl. No.	<u>Name of the item</u>	Qty
	A. Upwards : 180 Deg or more	
	B. Downwards: 180 Deg or more	
	C. Right: 160 deg or more	
	D. Left: 160 deg or more	
	7) Working Length : 730 mm or more.	
	8) Total length : 1040 mm or more	
	9) Instrument channel: 3.4mm or more	
	10) Accessories compatible with instrument channel	
	a) Biopsy Forceps with or without needle-10 each compatible with the channel	
	b) Polypectomy snare hexagonal and oval rotatable (2 Pack or 10 each)	
	c) Hot Biopsy Forceps reusable- 2 each	
	d) Electrosurgical snare- 2 each	
	e) Biopsy probes- 10 each	
	f) Cleaning brushes and channel opening brush - 5 each	
	g) Washing pipe/ spray Cathether-20 each with each scope	
	h) Injection needle 21G -10 with each scope	
	i) Rotable Clip fixing device short and long -5each with one hundred single use clip.	
	j) Deleted	
	k) Deleted	
	l) Hemoclips -20 Each	
	m) Extra Suction aand air water buttons 5 Each	
	n) Biopsy channel valves- 2 packs of 100 each.	
5	Full HD VIDEO PROCESSOR	1 no.
	Should be compatible with Anlog, HD-SDI AND DVI Output for HDTV monitor should be available	
	Equipped with High resolution HDTV Imaging capacity	
	Compact and ergonomically designed	
	Should be compatible HD plus video scopes with optical chrome endoscopy imaging such as NBI/SPIES/I Scan/ FICE or equivalent .	
	The system should be compatible with Endoscopic Ultrasound	
	Should be having Inbuilt/ Separate light source.	
	Recording of both still and moving images equipped with one touch connection of scopes. Archival and printing facility should be provided	
	Portable memory & USB slot for still image.	
	Automatic IRIS Control & automatic white balance	
	Should have in built light source or separate light source with NBI/SPIES/I Scan/ FICE or equivalent	
	NBI/SPIES/ I Scan/FICE or equiavent capability LED or NBI/SPIES/ I Scan/FICE or equiavent capability 300W xenon light source with halogen back up. Two xenon spare lamps to be supplied along with the machine incase of xenon light source	
	Backlit Front panel indicator. Equipped with automatic light adjustment forced air-cooling, regulated air feeding pump and fan with low noise.	
	Compatibility with all endoscopes and Endoscopic ultraound system	
	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.	

Sl. No.	Name of the item	Qty
6	Full HIGH DEFINITION LCD MONITOR	1 no.
	High definition LED 26" or more monitor – 1 no. with high resolution 1920X1080p	
	Aspect ratio 16: 9/16:10 with resolution of 1080p. Color system should be PAL/NTSC	
	Should have Picture-in -Picture and Picture -out-Picture for viewing side by side split screen images.	

II.	Technical Specifications of Endoscopic Ultrasound	
	SPECIFICATIONS:	
	Should be compatible with Endoscope system	
1	Ultrasonic Gastrovideoscope (Linear) : 1 no.	
	Should have following technical specifications/ features :	
	a) Ultrasonic features	
	Scan mode should have B Mode/Color Doppler	
	Electronic curved linear scanning angle of ≥ 120	
	Scanning Direction should be Longitudinal with Scanning System (i.e. parallel to insertion direction)	
	EUS images with multiple selectable frequencies between 5 to 10 MHz	
	b) Endoscopic features	
	Field of view should be around ≥ 100 degree	
	Direction of view should be 50-60 degree Forward-oblique	
	Depth of field should be 5 to 100 mm or less	
	Distal end outer diameter ≤ 12 mm	
	Distal should have short rigid portion for less trauma to the patient	
	Insertion tube outer diameter of ≤ 11 mm	
	Instrument channel diameter of ≥ 2.8 mm	
	Lens cleaning function for keeping the endoscopic field of view clear at all times	
	EUS Scope should be fully immersible for thorough clean	
	Videoscope should have FNA (therapeutic) capability	
	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	
2	Ultrasonic Gastro videoscope (Radial) : 1 no.	
	Should have following technical specifications/ features:	
	a) Ultrasonic features	
	Scan mode should have B Mode/Color Doppler	
	Electronic radial scanning angle of 360 and facility for image rotation	
	Scanning Direction should be Latitudinal with Scanning System (i.e. perpendicular to insertion direction)	
	EUS images with multiple selectable frequencies between 5 to 10 MHz	
	b) Endoscopic features	
	Field of view should be around ≥ 100 degree	
	Direction of view should be Forward	
	Depth of field should be 5 to 100 mm or less	
	Distal end outer diameter < 13 mm	
	Distal should have short rigid portion for less trauma to the patient	
	Insertion tube outer diameter of < 12.5 mm	
	Instrument channel diameter of 2-3 mm	
	Lens cleaning function for keeping the endoscopic field of view clear	

	at all times	
	EUS Scope should be fully immersible for thorough cleaning	
3	Ultrasound Processor with Color Doppler Function :	1 no.
	Compact & easily transportable unit with Ultrasound & color Doppler function	
	Compatible with above mentioned EUS scopes	
	Compatible with trans-abdominal USG probes (one wideband convex and one linear trans-abdominal probe should be supplied with the system) - Optional - price to be offered seperately	
	3D imaging options should be available	
	4D imaging options should be available (one 4D probe should be supplied with the system)	
	Real Time Spatial 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	

III	Trolley to mount all equipment, scopes and accessories Video Endoscopy workstation/trolley with space for accommodation of a LED HD monitor (26" or more in size) , HD video processor and light source, endoscope and endoscope ultrasound system	1 no.
IV	Suitable computer system with UPS, Printer and trolley, endoscopic software to be supplied along with the unit. Bidder should provide networking from video processor to computer	1 no.
V	Demonstration of quoted model should be offered if desired	
VI	Complete system should be European CE or USFDA approved	
VII	Price of each of the accessories and consumables should be quoted seperately and prices to be fixed for 5 years	

BOQ for Full HD Video Endoscope System (2 nos.) with Endoscope Ultrasound System (1 no.)		
Sl.no.	Name of the Item	Qty
A	Full HD video Endoscope system 2nos. Should consist of the following	
1	Full HD Gastrovideoscope with accessories as per technical specifications	2 nos.
2	Full HD Colonovideoscope with accessories as per technical specifications	2 nos.
3	Full HD Side Viewing Duodenovideoscope with accessories as per technical specifications	2 nos.
4	Full HD Sigmoidoscope with Accessories as per technical specifications	2 nos.
5	Full HD VIDEO PROCESSOR as per technical specifications	2 nos.
6	Full HIGH DEFINITION LCD MONITOR as per technical specifications	2 nos.

B	Endoscope Ultrasound System (1 no.) should consist of the following	
7	Ultrasonic Gastrovideoscope (Linear) as per technical specifications	1 no.
8	Ultrasonic Gastro videoscope (Radial) as per technical specifications	1 no.
9	Ultrasound Processor with Color Doppler Function as per technical specifications	1 no.
10	Trolley as per technical specifications	1 no.
11	Computer system as per technical specifications	1 no.

Item No. 5 (Rfx/Event number 3000002781)**Semi-Rigid Video Thoracoscope System**

Sl. No.	Name of the Item	
1	Description of Function	
	A thoracoscope is a thin, tube-like semi rigid endoscope instrument with a light and a lens for viewing.	
2	Operational Requirements	
	Thoroscope with video processing and monitoring is required	
3	Technical Specifications	
3.1	Technical Specifications Thoracovideoscope	
1	Latest image quality for advanced thoracic procedures.	
2	Two-way or more angulation for complete examination	
3	Built-in CCD chip for unprecedented image quality	
4	Adaptor-Free system with direct connection to CCD Camera control unit	
5	Fully immersible in disinfectant solution, ETO sterilisable	
6	Equipped with a compatible CCD Cameral Unit	
7	Optical System- Field of view -90-100 degrees; Directional of view- 0 degree (forward viewing); Depth of field- 18 to 100 mm; Chip-1/4" CCD	
8	Insertion Portion- Distal end outer diameter <= 10 mm approximately; Rigid portion outer diameter-<= 10 mm approximately; Working Length- 270-350 mm	
9	Bending Section- Angulation range- Up 100-110 degree; Down 100-110 degree. Additional angulation if any available pls specify and highlight	
3.2	Video processor with light source, Monitor and Recording system with capacity of 5TB	
1	Power supply 200-240 V A/C	
2	PAL type video signal.	
3	Controls for color adjustment, to enhancement and balance settings.	
4	Controls to freeze images, enhance a portion of frozen image (zoom & post-processing).	
5	Patient and physician data input key board.	
6	Operates on 300W Xenon lamp.	
7	Emergency lamp(Halogen).	
8	Compatibility with the gastro scope and colonoscope duodenoscopE and Enteroscope	
9	Minimum 23" LCD/LED Medical Grade colour monitor with HD resolution	
10	Shiould be supplied with suital sterilisation trays - 2 nos	
11	Should be US FDA or European CE orUL or BIS approved product	
12	Demonstration of quoted model should be offered if desired	

Sl. no	BOQ	Qty
1	Thoracovideoscope as per technical specifications	1 no.
2	Video processor with light source , Monitor and Recording system with capacity of 5TB	1 no.
3	Monitor as per technical specifications	1 no.
4	Recording system as per technical specifications	1 no.
5	Sterilisation trays	2 nos.

Item No. 6 (Rfx/Event number 3000002782)**Full HD Video Bronchoscope System with Endobronchial Ultrasound System**

A	Video Bronchoscope System
	The flexible Fibre optic Bronchoscope should be supplied complete with light source and trolley and minimum 15" LCD Monitor
	Adult Scope:
	1. Field of View should be 120 degree or more
	2. Depth of field should be 3 – 50 mm or better
	3. Distal end diameter should be 5 mm or less
	4. Insertion tube diameter should be 5 mm or less
	5. Channel diameter should be 2.0 mm or more
	6. Working length should be 600 mm or more
	7. Total length should be 850 mm or more
	8. UP and DOWN Angulations should be 180 degree and 130 degree or better
	9. Can be fully immersed in disinfectant solution and water
	10. Should be European CE with 4 digit notified body number/US FDA approved.
	Paediatric Scope:
	1. Field of View should be 120 degree or more
	2. Depth of field should be 3 – 50 mm or better
	3. Distal end diameter should be 2.4 mm or less
	4. Insertion tube diameter should be 2.4 mm or less
	5. Channel diameter should be 1.2 mm or more
	6. Should be light weight and easy to use
	7. Working length should be 600 mm or more
	8. Total length should be 850 mm or more
	9. UP and DOWN Angulations should be 180 degree and 120 degree or better
	10. Can be fully immersed in disinfectant solution and water
	11. Should be European CE with 4 digit notified body number/US FDA approved.
	FULL HD Video Processor & Light source
	1. Outputs - RGB, Y/C, VBS Composite, XGA & DV simultaneous
	3. It should have structure and edge enhancement option for better image quality
	4. It should have various iris control option for better light distribution
	5. Unit should be compact and light weight.
	6. Light source - Combined or separate LED with emergency backup facility.
	7. Air pump - Inbuilt air pump with minimum two variable air flow control.
	8. Lamp can be turned on/off without turning off the equipment.
	9. Electronic magnification up to 1.5X by a touch of scope remote switches
	10. One spare LED Lamp should be supplied.
	12. Should be European CE with 4 digit notified body number/US FDA

	approved.
	13.System should be compatible with Endobronchial Ultrasound

B	Endobronchial Ultrasound System (EBUS)
	System Includes:
I	Ultrasonic Broncho fiber videoscope (for EBUS-TBNA)
II	Radial EBUS system
III	Linear EBUS system
IV	Ultrasound Processor with Colour Doppler function
	Specifications:
1	Ultrasonic Broncho fiber videoscope (for EBUS-TBNA)
1.1	Field of view At least 80° (at least 35° forward oblique)
1.2	Depth of field : Approximately 2-50 mm
1.3	Tip deflection : Up at least 120° Down at least 90°
1.4	Distal end : Probe not more than 6.5 x 7.0 mm Optic not more than 7.5mm
1.5	Insertion tube outer diameter : Not more than 6.5 mm
1.6	Instrument channel width : At least 2 mm
1.7	Working length : At least 600 mm
1.8	Total length : Not more than 900 mm
1.9	Acoustic frequency : 5-10 MHz switchable
1.10	Scan Direction : Longitudinal
1.11	Scan System : Convex
1.12	Scan Angle 50° or more
2	Radial Probes
2.1	Probe driving unit must support wide range of EUS and EBUS Procedure.
2.2	Frequency range of 7.5 to 30 MHz enabling observation at high frequencies to provide higher resolution of Superficial Layers
2.3	Dual-plane reconstruction combining radial and linear images.
2.4	Deleted
2.5	Weight – 1.5 Kg or less
2.6	Ultrasonic Probe 1.7 mm that fits through a 2.2 mm Diameter Channel of a Standard bronchoscope with a Frequency of 20 MHz – 1 No.
2.7	Ultrasonic probe diameter of 2.6 mm with Balloon Sheath and can easily fit through and bronchoscope with channel Diameter of 2.8 mm or more with a Frequency of 20 MHz – 1 No.
2.8	Ultrasonic Probe Slim 1.7 mm Outer Diameter with Frequency of 30 MHz – 1 No
2.9	Ultrasonic Probe diameter of 2.6 mm with Balloon Sheath can easily fir through any bronchoscope with channel Diameter of 2.8 mm or more with a Frequency of 30 MHz – 1 No.
3	Linear Probes
3.1	Probe driving unit must support wide range of EUS and EBUS Procedure.
3.2	Frequency range of 7.5 to 30 MHz enabling observation at high frequencies to provide higher resolution of Superficial Layers

3.3	Dual-plane reconstruction combining radial and linear images.
3.4	Weight – 1.5 Kg or less
3.5	Ultrasonic Probe 1.7 mm that fits through a 2.2 mm Diameter Channel of a Standard bronchoscope with a Frequency of 20 MHz – 1 No.
3.6	Ultrasonic probe diameter of 2.6 mm with Balloon Sheath and can easily fit through and bronchoscope with channel Diameter of 2.8 mm or more with a Frequency of 20 MHz – 1 No.
3.7	Ultrasonic Probe Slim 1.7 mm Outer Diameter with Frequency of 30 MHz – 1 No
3.8	Ultrasonic Probe diameter of 2.6 mm with Balloon Sheath can easily fir through any bronchoscope with channel Diameter of 2.8 mm or more with a Frequency of 30 MHz – 1 No.
4	Digital Ultrasound Scanner / Colour Doppler
4.1	Compatible with the above EBUS puncture scope & radial brobes
4.2	Real time 3D image
4.3	Hi support-automatically optimize the B-mode and Doppler image parameters (gain, baseline, PRF etc.)
4.4	Picture in picture for both ultrasound and endoscopic image simultaneously
4.5	High definition dynamic tissue harmonic imaging
4.6	High resolution imaging
4.7	Ergonomic operation keyboard
4.8	User programmable calculation package
4.9	Annotation, arrow mark and point display
4.1	The whole system should function on 50Hz / 220VAC
5	The EBUS system should be supplied with automatic dishwasher for cleansing & disinfection having minimal following specifications:
a	Automatic washing and cleaning of bronchoscopes
b	Capacity / Basin
	Basins per system : At least one
	Scopes per basin : At least one
	Basin size : 47.0 cm depth x 39.5 cm width (50x40)
	Basin volume : 15L (maximum) 12 -15 L
c	Total Cycle Time : 15-20 minute per cycle
4	Scope Loading : Top loading
5	Scope connection required : Yes
6	Applicable Scopes : Olympus / Pentax / Fuginon etc.
7	Filter Media : 0.1 to 0.2 micron filter
8	Minimum effecting concentration (MEC) access port
9	Power Capable of operating on 220V 50Hz AC
C	Full HD Monitor
	15 inches or more LCD/LED HD Monitor of Medical Grade. It should be mountable on trolley.
D	Computer with Software
	Should be supplied with suitable computer system with facility for recording images and video.

E	Trolley
	Suitable Trolley to mount monitor, scopes, light source and all accessories.
F	Demonstration of quoted model should be offered if desired
G	Training
	2 weeks training for two at a mutually convenient centre.
H	Should be supplied with suitable online UPS system with 30 min back for whole system

BOQ for Video Bronchoscope & EBUS		
Sl NO	Name of the item	Qty
	Video Bronchoscope System	
1	Flexible Fiberoptic Bronchoscope Adult as per technical specifications	1 No
2	Flexible Fiberoptic Bronchoscope Paediatric as per technical specifications	1 No
3	Monitor full HD as per technical specifications	1 No
4	Video Processing System with Computer as per technical specifications	1 No
5	Light Source, LED as per technical specifications	1 No
6	Trolley	1 No
7	Spare LED bulb	1 No
8	Reusable and autoclavable biopsy forceps	2 No
9	Cleaning/maintenance kit including container for diinfectant solution	1 Set
10	Brush Biopsy (Protected)	10 pieces.
11	Foreign body forceps basket type	2 No
	EBUS	
12	Ultrasonic Broncho fiber videoscope (for EBUS-TBNA) as per technical specifications	1 no.
13	Radial EBUS system as per technical specifications	1 no.
14	Linear EBUS system as per technical specifications	1 no.
15	Ultrasound Processor with Colour Doppler function as per technical specifications	1 no.
16	automatic dishwasher for cleansing & disinfection system as per technical specifications	1 no.
17	EBUS puncture needles as per technical specifications	10 no.
18	UPS as per technical specifications as per technical specifications	1 no.
19	Mobile trolley to mount the EBUS system and ultrasound as per technical specifications	1 no.
21	All other essentials / accessories required to make the machine function optimally as per technical specifications	1 no.
22	Recording System for review & publication as per technical specifications	1 no.

Item No. 7 (Rfx/Event number 3000002783)**Adult and Pediatric Reusable Flexible Intubation Video Endoscope with Screen**

1. Flexible Intubation Endoscope with CMOS chip on tip for digitally transferring the image to the screen. There should be NO Optical Fiber bundles. Intubation Endoscope to display Full Frame 4:3 Imaging, replacing the circular display windows. The image can be displayed directly on a small TFT monitor attached to the screen
2. Screen 7 inch or more in size for display with clearly arranged soft keys for immediate use. The screen should have HDMI or HD for connecting to a big screen. Also, there should be port to connect USB drive.
3. Automatic/ manual white balance facility should be available on the monitor as well as on the scope
4. Documentation of Video & still images should be possible on data card or USB drive with JPEG and MPEG4 format which can be easily transferred to the computer/laptop. Documented videos & still images should be easily recalled on the monitor
5. Screen should be rechargeable & runs on Lithium Ion Batteries (operating time- 1 hr or more)
6. It should be light weight , high resolution & potable flexible scope
7. Airway Guide (cum Bite block) for Oral intubation should be provided with the set (at least 10 airways) .
8. Monitor Should have a facility to connect flexible scope directly without any special coupler or any additional accessory.
9. Integrated recording should be done on a USB drive.
10. TUBE HOLDER should be a part of standard accessory
11. Set should include- Suction Adaptors (20 Disposable per scope), Cleaning brush (20 pieces per scope) & Leakage tester as standard accessories
12. Suitable for following applications-
 - a) Bronchoscopy
 - b) Endotracheal Intubation (Gold standard for Difficult Airways)
 - c) Foreign body removal
 - d) Bronchial Lavage
 - e) Inspection of the Airways
13. Dilatation Tracheotomy
14. Technical Details of Adult Flexible Video Endoscope- (6 Number)
 - a) Tip deflection UP/DOWN: 140°/140° or more
 - b) Angle of view 85° or more,
 - c) Working Length: at least 65 cm,
 - d) Total length: 90 cm or more
 - e) Working Channel diameter: at least 2.0 mm or more
 - f) Distal Tip Outer Diameter: 5.5 mm or less
15. Technical Details of Pediatric Flexible Video Endoscope- (3 Number)
 - a) Tip deflection UP/DOWN: 140°/140° or more
 - b) Angle of view 120° or more,
 - c) Working Length: at least 65 cm,
 - d) Total length: at least 90 cm or more
 - e) Working Channel diameter: at least 1.5 mm
 - f) Distal Tip Outer Diameter: at least 3.5 mm or more
16. In addition, one Pediatric bronchoscope at least 2.5mm must be supplied and should be compatible with existing monitor.
17. Scopes can be fully immersed in disinfected solution and water. Cleaning/maintenance kit including container for disinfectant solution

19. Computer with software should be supplied with suitable computer system with facility for recording images and video.
20. One imported Trolley to hang Scope as well monitor manufactured by same company should be provided.
21. Equipment must be US FDA AND European CE approved.

<u>BOQ for ADULT and PEDIATRIC REUSABLE FLEXIBLE INTUBATION VIDEO ENDOSCOPE WITH THE SCREEN</u>		
S.No.	Name of the Item	Qty
1	Adult Flexible Video Endoscope as per technical specifications	6 nos.
2	Pediatric Flexible Video Endoscope as per technical specifications	3 nos.
3	Pediatric bronchoscope at least 2.5mm as per technical specifications	1 no.
4	Computer with software as per technical specifications	1 no.
5	Trolley as per technical specifications	1 no.

Item No. 8 (Rfx/Event number 3000002784)**Video Cystoscope**

Sl. No.	Name of the item	Qty
1	HD Video Cysto-Urethroscope	1 no.
	Instrument channel: 6.5mm or more	
	Direction of view : 0 deg	
	Angle of view : 120 deg or more	
	Working length : 37cm or more	
	Outer diameter : 17 Fr or less	
	Deflection: Upward 210 deg more, downward 130 deg or more	
2	The following accessories should be included :	1 set
	Carrying Case	
	Compatible Biopsy Forceps & Grasping forceps - 2Nos each.	
	Compatible Unipolar Coagulating Electrode with compatible HF chord.	
	Pressure compensation cap	
	Leakage tester	
	Cleaning brush	
3	Light Source : Should have following technical specifications/features	1 no.
	Separate/combined module from video processor	
	Must be latest and high end model from bidder	
	Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED	
	Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied	
	Should have inbuilt air pump	
4	Video Processor & Light source	1 no.
	1. Outputs - RGB, Y/C, VBS Composite, XGA & DV simultaneous	
	3. It should have structure and edge enhancement option for better image quality	
	4. It should have various iris control option for better light distribution	
	5. Unit should be compact and light weight.	
	6. Light source - Combined or separate LED with emergency backup facility.	
	7. Air pump - Inbuilt air pump with minimum two variable air flow control.	
	8. Lamp can be turned on/off without turning off the equipment.	
	9. Electronic magnification up to 1.5X by a touch of scope remote switches	
	10. One spare LED Lamp should be supplied.	
	12. Should be European CE with 4 digit notified body number/US FDA approved.	

5	Monitor	1 no,
	15 inches or more LCD/LED HD Monitor of Medical Grade. It should be mountable on trolley.	
6	Computer with Software	1 no.
	Should be supplied with suitable computer system with facility for recording images and video.	
7	Trolley from original equipment manufacturer	1 no.
	Suitable Trolley to mount monitor, scopes, light source and all accessories.	
	Trolley should be from same manufacturer of scopes	
8	Demonstration of quoted model should be offered if desired	

BOQ for Video Cystoscope		
Sl No.	Name of the item	Qty
1	HD Video Cysto-urethroscope as per technical specifications	1 No
2	Light source as per technical specifications	1 No
3	Video Processor & Light source as per technical specifications	1 No
4	Monitor as per technical specifications	1 No
5	Computer with Software as per technical specifications	1 No
6	Trolley as per technical specifications	1 No

Item No. 9 (Rfx/Event number 3000002785)**Flexible Nasopharyngolaryngoscope**

Sl. No.	Description
A.	General Specifications:
	1. Should have large viewing angle and movable distal tip for better orientation
	2. Waterproof, fully immersible for cleaning and disinfections
	3. Sterilizable with ETO gas/ low temperature sterilizer
	4. Resistant construction and robust mechanics
B.	Technical Specifications:
	1. Direction of view: 0 deg.
	2. Angle of view: 100-110 deg.
	3. Working length: 20-25 cm or better
	4. Outer diameter: 5-5.5 mm
	5. Instrument Channel: 2-2.5mm
	6. Deflection: Upward upto 150 deg, Downward upto 150 deg.
C.	The following accessories should be included:
	1. Carrying Case 1 no.
	2. Pressure compensation cap 1 no.
	3. Leakage tester 1 no.
	4. Mouth piece 1 no.
	5. Cleaning Brush 1 no.
	6. One Biopsy Forceps- Double action Jaws
	7. One Grasping Forceps- Double action Jaws
D.	Demonstration of quoted model should be offered if desired
E.	All accessories should be from the same manufacturer. Equipment should be European CE/ US FDA approved

Sl.No.	BOQ	Qty
1	Flexible Rhino-Pharyngo Laryngoscope as per technical specifications	1 no.
	Accessories	
2	Carrying Case	1 no.
3	Pressure compensation cap	1 no.
4	Leakage tester	1 no.
5	Mouth piece	1 no.
6	Cleaning Brush	1 no.
7	Biopsy Forceps- Double action Jaws	1 no.
8	Grasping Forceps- Double action Jaws	1 no.

Item No. 10 (Rfx/Event number 3000002786)

Flexible Hystero- Fiberscope Set

1. Hystero-Fiberscope for office hysteroscopy without dilation and without Anesthesia, should be having Outer diameter of 3 – 4 mm, Working Channel between 1.2-1.5 mm, Direction of view 0°, Angle of view 100° or more, Working Length of 240 mm or more

Should be supplied with

- a. Compatible light source with light cable
- b. Compatible Grasping Forceps and biopsy forceps to be supplied – 1 each.
- c. Compatible Leakage tester to be supplied.

2. 300 Watt Xenon Light Source/LED light source :

Should have following technical specifications/features

- a. Separate/combined module from video processor
- b. Must be latest and high end model from bidder
- c. Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED
- d. Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of xenon light source

3. Demonstration of quoted model should be given if desired
4. All equipment should be European CE or USFDA approved

BOQ for Flexible Hystero- Fiberscope set

S.No.	Name of the Item	Quantity
1	Hystero-Fiberscope as per technical specifications	1 no.
2	Light source as per technical specifications	1 no.
3	Grasping Forceps and biopsy forceps as per technical specifications	1 no.
4	Leakage tester as per technical specifications	1 no.

Item No. 11 (Rfx/Event number 3000002787)

Hysteroscope System

SPECIFICATION FOR OFFICE OPERATIVE AND DIAGNOSTIC HYSTEROSCOPY SET

1. **HYSTEROSCOPE TELESCOPE - Forward-Oblique Telescope** 30°, enlarged view, diameter 2.9-3.0 mm, length 30 cm, **autoclavable**, fiber optic light transmission incorporated,
2. **DIAGNOSTIC OFFICE HYSTEROSCOPE SHEATH** - Hysteroscope sheath for diagnostic and continuous irrigation (inflow & outflow), size 4.5-4.6mm sheath for use with 2.9-3.0 mm hysteroscope telescope.
3. **OPERATIVE OFFICE HYSTEROSCOPE SHEATH** - Hysteroscope sheath for Operative, continuous irrigation (inflow & outflow), size 5.0-6.0 mm sheath with operating channel 5Fr for use with 2.9-3.0 mm hysteroscope telescope.
4. **SEMI RIGID INSTRUMENTS FOR USE WITH OPERATING HYSTEROSCOPE**
 - a. SCISSOR, BIOPSY & GRASPING FORCEP, 5 Fr. , length 33-36cm – one each
 - b. NEEDLE ELECTRODE - **Unipolar Needle Electrode** , 5 Fr., length 34 cm
 - c. DISSECTION - **Bipolar Dissection Electrode, 5Fr, 36cm, Bipolar**
 - d. UNIPOLAR CORD - **High Frequency Cord**
5. **Electro-Surgical Unit: 300 Watt or more**
 - a. **Microprocessor Controlled Electrosurgical Unit:** Should have following specifications:
 - i. Should have built-in regulated fan
 - ii. Should have LCD and Touch Screen user Interface
 - iii. Should have memory function with characters
 - iv. Should have Automatic Saline Detection mode
 - b. **Monopolar Cut Modes :**
 - i. PureCut for continuous cutting
 - ii. BlendCut for Continuous cutting with Coagulation
 - iii. Cut and coagulation modes for Intermittent cutting with long coagulation
 - c. **Monopolar Coagulation Modes :**
 - i. SoftCoag or similar mode for Soft and deep coagulation
 - ii. PowerCoag or similar mode for Fast coagulation and dissection
 - iii. ForcedCoag or similar mode for Fast coagulation
 - iv. SprayCoag or similar mode for Contact-free superficial coagulation
 - d. **Bipolar Cut Modes :**
 - i. BipolarCut or similar mode for Continuous cutting
 - ii. SalineCut or similar mode for Continuous cutting in saline
 - e. **Bipolar Coagulation Modes:**
 - i. BiSoftCoag or similar mode for Soft coagulation (+/- Autostart)
 - ii. AutoCoag or similar mode for Soft coagulation with Autostop
 - iii. SalineCoag or similar mode for Coagulation in saline
 - iv. FineCoag for or similar mode Fine coagulation
 - v. RFCoag for or similar mode Deep (tumor) ablation with Autostop

6. Technical Specifications for Bipolar Resectoscope:

- a. Should be supplied with 4mm telescope with 12 degree angle
- b. Working Element, Bipolar, Passive Type
- c. Bipolar HF Cable, 250 cm or more
- d. With continuous flow Inner 24 fr and outer Sheath 26 fr
- e. Bipolar HF-coagulation Electrode, Roller type (6 pc)
- f. Bipolar HF-Resection Electrode, Cutting Loop (12 pc)
- g. Supplied with compatible obturator

7. Technical Specifications for Monopolar Resectoscope:

- a. Working Element, Monopolar, Passive Type
- b. Monopolar HF Cable, 250 cm or more
- c. With continuous flow Inner 24 fr and outer Sheath 26 fr
- d. Monopolar HF-Coagulation Electrode, Roller type 6 pc)
- e. Monopolar HF-Resection Electrode, Cutting Loop (12 pc)
- f. Supplied with compatible obturator

8. Full High Definition Video Processor (3 chip CCD)

- a) A high definition processor should support resolution of 1920 * 1080 pixels.
- b) Should have compatibility for selecting Progressive / Interlaced output
- c) Optical image enhancement of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions or Similar Technology.
- d) Should have a USB slot so as to take still pictures of Endoscope images.
- e) Should have DVI-D/HD-SDI output for HD Video Output

9. Full High Definition 3CCD Camera Head:

- a. The full HD camera head should have resolution of 1920 * 1080 pixels.
- b. Should have motorized optical zoom up to 2x
- c. Should have motorized focus function which can be varied steplessly from coarse to fine image.
- d. Should have 2-3 programmable buttons which can be configured through the processor.
- e. The camera head must be autoclavable for achieving better Cleaning, Disinfection and Sterilisation.

10. 300 Watt Xenon Light Source/LED light source: Should have following technical specifications/features

- a. Separate/combined module from video processor
- b. Must be latest and high end model from bidder
- c. Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED
- d. Lamp life should not be less than 500 hrs (approx), one spare 300 W xenon lamp should be supplied in case of xenon light source

11. FULL High Definition Medical grade Monitor :

- a. 26" High resolution LCD / LED medical grade color monitor.
- b. Should have all HD functional Outputs/ inputs

12. UPS: 2 KVA online UPS with 30 minutes back up for the whole system to be supplied**13. Recording and Reporting Software with hardware** (latest desktop computer and colorlaserjet printer)**14.** All the quoted items should be USFDA / European CE approved with 4 digit notified body number.**15.** Supplier should provide OEM Trolley along with the system

16. Demonstration of quoted model should be given if desired

BOQ for Hysteroscope System

S.No.	Name of the Item	Quantity
1	HYSTEROSCOPE TELESCOPE - Forward-Oblique Telescope 30° as per technical specifications	1 no.
2	DIAGNOSTIC OFFICE HYSTEROSCOPE SHEATH as per technical specifications	1 no.
3	OPERATIVE OFFICE HYSTEROSCOPE SHEATH as per technical specifications	1 no.
	Semi Rigid Instrument for Use with Operating Hysteroscope	
4	SCISSOR, BIOPSY & GRASPING FORCEP as per technical specifications	1 no.
5	NEEDLE ELECTRODE as per technical specifications	1 no.
6	Bipolar Dissection Electrode as per technical specifications	1 no.
7	Unipolar Cord as per technical specifications	1 no.
8	Electro-Surgical Unit as per technical specifications	1 no.
9	Bipolar Resectoscope as per technical specifications	1 no.
10	Monopolar Resectoscope as per technical specifications	1 no.
11	Full High Definition Video Processor as per technical specifications	1 no.
12	Full High Definition 3CCD Camera Head as per technical specifications	1 no.
13	Light source as per technical specifications	1 no.
14	FULL High Definition Medical grade Monitor as per technical specifications	1 no.
15	UPS as per technical specifications	1 no.
16	Recording and Reporting Software with hardware (latest desktop computer and colorlaserjet printer)	1 no.

Item No. 12 (Rfx/Event number 3000002788)

Digital Video Colposcopy System

1. Features:

- a. It should have refined Optical performance like a 220-350 mm variable working
- b. distance, 6x non-step continuous zoom, and high eye-point eyepieces which will
- c. allow precision colposcopy with reduced fatigue.
- d. It should have different Light Source compatibility
- e. It should have facility for simultaneous Monitor use and Still Image Capture

2. Technical Specifications:

- a. Working Distance : 220 – 350 mm Variable
- b. Magnification Change : 6x Zoom
- c. Magnification : 3.7 – 23.7x
3.0 – 18.8x
2.7 – 16.9x
- d. Actual field of view : 59.1 – 9.4x
73.8 – 11.7x
31.8 – 13.0x
- e. Eyepiece : 10x/Field No
- f. Focussing range : 130 mm
- g. Inclination angle of Binocular tube : 45 degree
- h. Max. radius of rotation : 590 mm
- i. Light source : Xenon/LED

300 Watt Xenon Light Source/LED light source :

Should have following technical specifications/features

- Separate/combined module from video processor
- Must be latest and high end model from bidder
- Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED
- Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of xenon light source

- j. Imaging System : Can be attached TV Camera, Still & Digital Camera
- k. Zooming : Drive System : Manual drive by knob rotation
- l. Zoom Ration : 1:6
- m. Focussing : Focus System : Adjustable focal length
- n. Drive System : Manual drive by knob rotation
- o. Illumination System : Light guide
- p. Filter : Detachable green filter

3. Floorstand

- a. Support System : Floorstand
- b. Balancing System : Pantographic arm balancing using spring
- c. Balance Adjustment : 4.0 – 7.0 kg
- d. Range
- e. Balance Adjustment : Handle adjusted
- f. Binocular Tube Tilt : 10 degree upward and 30 degree downward relative to the horizontal observation optical axis.
- g. Verticle Arm : 300 mm
- h. Movement Range
- i. Arm Rotation Range : 270 degree

4. Gynaecology Examination couch with doctors stool and Light

- a. Should be an electric Gynaecology examination couch
 - b. Excellent for use in examinations, urological, and simple operations and post-operations
 - c. Backrest and height adjustment by motors with compact lying platform. Mechanical CPR
 - d. Equipped with 2 motors
 - e. Unit has Mechanical trendelenburg, side rails protection for patients as per international standards
 - f. Provided with 125 mm Ø Castors with central brake system
 - g. Height and position should be adjustable, leg stirrups (hidable stirrups when not in use).
 - h. Made of good quality stainless steel, removable basin
 - i. Lockable side rails and detachable head
 - j. Plastic protection bumpers
 - k. Urine bag holder • belt hooks • accessories slots
 - l. Height adjustable iv stand • electrostatic powder coated metal frame and components 28 density mattress.
 - m. Dimension: to be around 955 x 2160 mm
 - n. H MIN :525 mm. H MAX : 845 mm.
 - o. Unit should be provided with Battery back-up facility
 - p. Height adjustable doctors Stool
 - q. Rail mounted/Mobile Stand Led Examination Light with 60,000 Lux output
5. Suitable trolley to mount all equipment & accessories
 6. Equipment should be USFDA / European CE approved with 4 digit notified body number.
 7. Demonstration of quoted model should be given if desired

BOQ for Digital Video COLPOSCOPY SYSTEM

S.No.	Name of the Item	Quantity
1	Digital Video Colposcope System as per technical specifications	1 no.
2	Floor Stand as per technical specifications	1 no.
3	Light source as per technical specifications	1 no.
4	Gynaecology Examination couch with doctors stool and Light as per technical specifications	1 no.
5	Trolley as per technical specifications	1 no.

Item No. 13 (Rfx/Event number 3000002789)**Rigid Ductoscope****1. Diagnostic Ductoscope: 1 no.**

- a. Straight forward telescope 0 deg, semiflexible autoclavable
- b. Outer diameter: 0.8mm,
- c. Irrigation channel diameter: 0.25mm or more
- d. Working length: 9cm or more
- e. Distal end should be made of Nitinol

2. Therapeutic Ductoscope: 1 no.

- a. Straight forward telescope 0 deg, semirigid autoclavable
- b. Outer diameter: 1.3mm,
- c. Irrigation channel diameter: 0.25mm or more
- d. Working channel diameter: 0.6mm or more
- e. Working length: 12cm or more
- f. Distal end should be made of Nitinol

3. Instruments for Ductoscope

- a. Examination sheath, with blunt obturator, working length 5cm, for use with above telescopes – 1 no.
- b. Examination sheath with blunt obturator, working length 9cm, for use with above telescopes – 1 no.
- c. Compatible Biopsy forceps – 1 no.
- d. Compatible brush biopsy forceps – 1 no.
- e. Probe of size 0000 to size 3 – 1 no. each

4. Comptaible 300 Watt Xenon/LED Light Source : 1 no.

Should have following technical specifications/features

- a. Separate/combined module from video processor
- b. Must be latest and high end model from bidder
- c. Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED
- d. Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of xenon light source

5. All equipment should be European CE with 4 digit notified body no. or USFDA approved

6. Demonstration of quoted model should be given if desired

BOQ for Ductoscope		
S.No.	Name of the Item	Qty
1	Diagnostic Ductoscope as per technical specifications	1 no.
2	Therapeutic Ductoscope as per technical specifications	1 no.
Instruments for Ductoscope		
3	Examination sheath, with blunt obturator, working length 5cm as per technical specifications	1 no.
4	Examination sheath with blunt obturator, working length 9cm as per technical specifications	1 no.
5	Compatible Biopsy forceps	1 no.
6	Compatible brush biopsy forceps	1 no.
7	Probe of size 0000 to size 3	1 set
8	Light source as per technical specifications	1 no.

Item No. 14 (Rfx/Event number 3000002790)**Rigid Bronchoscope**

Description	Qty.
1. Adult Bronchoscope	
a. Straight Forward Telescope 0°, diameter 4.5 mm, length 50 cm, autoclavable. Fiber optic light transmission incorporated,	1 no.
b. Bronchoscope Tube Universal, without distal fiber optic light carrier, for use with proximally insertable prismatic light deflector and plugs length 43 cm, size 8.5	1 no.
c. Bronchoscope Tube Universal, without distal fiber optic light carrier, for use with proximally insertable prismatic light deflector and plugs length 43 cm, size 7.5	1 no.
d. Bronchoscope Tube Universal, without distal fiber light carrier, for use with proximally insertable prismatic light deflector and plugs length 43 cm, size 6.5	1 no.
e. Prismatic Light Deflector with connection for fiber optic light cable.	1 no.
f. Glass Window Plug	1 no.
g. Rubber Telescope Guide	1 no.
h. Adaptor with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable, for use with Full Lumen Tracheoscopes and Bronchoscopes	1 no.
i. Injection Cannula for positive pressure assisted ventilation system, O.D. 3.5 mm for use with bronchoscopes and tracheoscopes with LUER-lock female fitting	1 no.
j. Tube Guide, for Bronchoscope	1 no.
k. Adaptor from bronchoscope to any type of pediatric respiration equipment.	1 no.
l. Plug for Ventilation Attachment of Bronchoscopes	1 no.
m. Bronchoscopic Forceps, circular cup, biopsy, malleable, double action jaws, diameter: 2.5 mm, working length 50 cm	1 no.

n. Bronchoscopic Forceps, universal biopsy and grasping, double action jaws, diameter: 2.5 mm, working length 50 cm	1 no.
o. Bronchoscopic and Esophagosopic Forceps, universal biopsy and grasping, double action jaws, diameter: 2.0 mm, working length 35 cm	1 no.
p. Bronchoscopic and Esophagosopic Forceps, alligator, grasping, double action jaws, diameter 2.0 mm, working length 35 cm	1 no.
q. Bronchoscopic Forceps, alligator, grasping, double action jaws, diameter: 2.0 mm, working length 45 cm	1 no.
r. Bronchoscopic Forceps, universal, biopsy and grasping, double action jaws, diameter: 2.0 mm, working length 45 cm	1 no.
s. Rigid Suction Tube, working length 35 cm	1 no.
t. Suction Tube for Bronchoscopy, O.D. 2,5 mm working length 50 cm	1 no.

2. Full High Definition Video Processor (3 chip CCD)

- a. A high definition processor should support resolution of 1920 * 1080 pixels.
- b. Should have compatibility for selecting Progressive / Interlaced output
- c. Optical image enhancement of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions or Similar Technology.
- d. Should have a USB slot so as to take still pictures of Endoscope images.
- e. Should have DVI-D/HD-SDI output for HD Video Output

3. Full High Definition 3CCD Camera Head:

- a. The full HD camera head should have resolution of 1920 * 1080 pixels.
- b. Should have motorized optical zoom up to 2x
- c. Should have motorized focus function which can be varied steplessly from coarse to fine image.
- d. Should have 2-3 programmable buttons which can be configured through the processor.
- e. The camera head must be autoclavable for achieving better Cleaning, Disinfection and Sterilisation.

4. 300 Watt Xenon / LED Light Source: Should have following technical specifications/features

- a. Separate/combined module from video processor
- b. Must be latest and high end model from bidder
- c. Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED
- d. Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of Xenon light source

5. Full High Definition Medical grade Monitor:

- a. 26" High resolution LCD / LED medical grade color monitor.
- b. Should have all HD functional Outputs/ inputs

6. HD Recording and Reporting Software with hardware (latest desktop computer and color laserjet printer)
7. All the quoted items should be USFDA / European CE approved with 4 digit notified body number.
8. Supplier should provide OEM Trolley along with the system
9. Demonstration of quoted model should be given if desired

BOQ for Rigid Bronchoscope

S.No.	Name of the Item	Quantity
1	Straight Forward Telescope 0°, diameter 4.5 mm, length 50 cm, autoclavable. Fiber optic light transmission incorporated as per technical specifications	1 no.
2	Bronchoscope Tube Universal, without distal fiber optic light carrier, for use with proximally insertable prismatic light deflector and plugs length 43 cm, size 8.5	1 no.
3	Bronchoscope Tube Universal, without distal fiber optic light carrier, for use with proximally insertable prismatic light deflector and plugs length 43 cm, size 7.5	1 no.
4	Bronchoscope Tube Universal, without distal fiber light carrier, for use with proximally insertable prismatic light deflector and plugs length 43 cm, size 6.5	1 no.
5	Prismatic Light Deflector with connection for fiber optic light cable	1 no.
6	Glass Window Plug	1 no.
7	Rubber Telescope Guide	1 no.
8	Adaptor with sliding glass window plug, sealing cap, notched lens and keyhole opening, movable, for use with full Lumen Tracheoscopes and Bronchoscopes	1 no
9	Injection Cannula for positive pressure assisted ventilation system, O.D. 3.5 mm for use with bronchoscopes and tracheoscopes with LUER-lock female fitting	1 no
10	Tube Guide, for Bronchoscope	1 no
11	Adaptor from bronchoscope to any type of pediatric respiration equipment.	1 no
12	Plug for Ventilation Attachment of Bronchoscopes	1 no
13	Bronchoscopic Forceps, circular cup, biopsy, malleable, double action jaws, diameter: 2.5 mm, working length 50 cm	1 no
14	Bronchoscopic Forceps, universal biopsy and grasping, double action jaws, diameter: 2.5 mm, working length 50 cm	1 no
15	Bronchoscopic and Esophagosopic Forceps, universal biopsy and grasping, double action jaws, diameter: 2.0 mm, working length 35 cm	1 no
16	Bronchoscopic and Esophagosopic Forceps, alligator, grasping, double action jaws, diameter 2.0 mm, working length 35 cm	1 no
17	Bronchoscopic Forceps, alligator, grasping, double action jaws, diameter: 2.0 mm, working length 45 cm	1 no

S.No.	Name of the Item	Quantity
18	Bronchoscopic Forceps, universal, biopsy and grasping, double action jaws, diameter: 2.0 mm, working length 45 cm	1 no
19	Rigid suction tube, working length 35 cm	1 no.
20	Suction tube for bronchoscopy O.D.2.5 mm working length 50 cm	1 no.
19	Full High Definition Video Processor as per technical specifications	1 no
20	Full High Definition 3 CCD Camera Head as per technical specifications	1 no
21	Light Source as per technical specifications	1 no
22	Full High Definition Medical grade Monitor as per technical specifications	1 no
23	HD Recording and Reporting Software with hardware as per technical specifications	1 no
24	Trolley as per technical specifications	1 no

Item No. 15 (Rfx/Event number 3000002791)

Rigid Cysto-Resectoscope

1. Features:

- a. It should be Rotatable continuous flow system
- b. Should have easy assembly and disassembly
- c. Should have Robust ceramic beak with lifetime guarantee against thermal damage

2. Technical Specifications:

- a. Telescope of 4mm with 0, 30, 70 deg direction of view
- b. Cystoscope Sheath with Obturator, 16-19 Fr
- c. Cystoscope Sheath with Obturator, 20-23 Fr
- d. Cystoscope Sheath with Obturator 25 FrCystolithotripsy
- e. Visual Obturator for 20-23 FrCysto-Sheath
- f. Cysto Bridge, Two-way
- g. Grasping Forceps, 5-7 Fr
- h. Biopsy Forceps, 5-7 Fr
- i. Scissors, 7-9 Fr
- j. Rigid Optical Biopsy Forceps for 30 Degree
- k. Rigid Optical Stone Crushing forceps for 30 Degree
- l. Working Element, Bipolar, Passive Type
- m. Working Element, Monopolar, Passive Type
- n. Compatible Monopolar and Bipolar HF Cable, 4 m to be provided
- o. Inner Sheath, 24 Fr for Standard Flow with Irrigation Port with Obturator
- p. Inner Sheath, 24 Fr, including Standard Obturator
- q. Outer Sheath, 26 Fr with 2 Stopcock, Rotatable type for Continuous Flow
- r. Optical Obturator for Inner Sheath
- s. Compatible Ellick Evacuator
- t. Bipolar HF-Resection Electrode, Roller type or similar (5 pc)
- u. BipolarHF-Resection Electrode, 45 Deg, Needle or similar (6 pc)
- v. BipolarHF-Resection Electrode, Medium Cutting Loop or similar (12 pc)
- w. BipolarHF-Resection Electrode, Small Cutting Loop or similar (12 pc)
- x. BipolarHF-Resection Electrode, Button, for plasma vaporization or similar (12 pc)
- y. Monopolar HF-Resection Electrode, cutting (5 pcs)
- z. Monopolar HF-Resection Electrode, coagulation (5 pcs)

3. 300 Watt Xenon/LED Light Source :

Should have following technical specifications/features

- a. Separate/combined module from video processor
- b. Must be latest and high end model from bidder
- c. Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED
- d. Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of xenon light sourc

4. Supplier should provide OEM Trolley along with the system

5. All the quoted items should be USFDA / European CE approved with 4 digit notified body number.

6. Demonstration of quoted model should be given if desired

BOQ for RIGID Cysto-Resectoscope

S.No.	Name of the Item	Quantity
1	Telescope of 4mm with 0, 30, 70 deg direction of view	1 no.
2	Cystoscope Sheath with Obturator, 16-19 Fr	1 no.
3	Cystoscope Sheath with Obturator, 20-23 Fr	1 no.
4	Cystoscope Sheath with Obturator 25 Fr Cystolithotripsy	1 no.
5	Visual Obturator for 20-23 FrCysto-Sheath	1 no.
6	Cysto Bridge, Two-way	1 no.
7	Grasping Forceps, 5-7 Fr	1 no.
8	Biopsy Forceps, 5-7 Fr	1 no.
9	Scissors, 7-9 Fr	1 no.
10	Rigid Optical Biopsy Forceps for 30 Degree	1 no.
11	Rigid Optical Stone Crushing forceps for 30 Degree	1 no.
12	Working Element, Bipolar, Passive Type	1 no.
13	Working Element, Monopolar, Passive Type	1 no.
14	Compatible Monopolar and Bipolar HF Cable, 4 m to be provided	1 no.
15	Inner Sheath, 24 Fr for Standard Flow with Irrigation Port with Obturator	1 no.
16	Inner Sheath, 24 Fr, including Standard Obturator	1 no.
17	Outer Sheath, 26 Fr with 2 Stopcock, Rotatable type for Continuous Flow	1 no.
18	Optical Obturator for Inner Sheath	1 no.
19	Compatible Ellick Evacuator	1 no.
20	Bipolar HF-Resection Electrode, Roller type or similar	5 nos.
21	BipolarHF-Resection Electrode, 45 Deg, Needle or similar	6 nos.
22	BipolarHF-Resection Electrode, Medium Cutting Loop or similar	12 nos.
23	BipolarHF-Resection Electrode, Small Cutting Loop or similar	12 nos.
24	BipolarHF-Resection Electrode, Button, for plasma vaporization or similar	12 nos.
25	Monopolar HF-Resection Electrode, cutting	5 nos.
26	Monopolar HF-Resection Electrode, coagulation	5 nos.
27	Light Source as per technical specifications	1 no.
28	Trolley as per technical specifications	1 no.

Item No. 16 (Rfx/Event number 3000002792)**Rigid Proctoscope**

1. Proctoscope Tube, outer diameter 24 mm, working length 6.5 cm, with Obturator
2. Proctoscope Tube, outer diameter 17 mm, working length 6.5 cm, with Obturator
3. Fiber Optic Light carrier, with connector to fiber optic light cable
4. Fistula Hook, total length 19 cm
5. Dressing Forceps, total length 19 cm
6. Suction Ligature Instrument for treatment of hemorrhoids, suction opening diameter 10 mm, working length 14 cm, with integrated vacuum pump consisting of: Ligature Attachment, Handle, Loading Cone, Ligature Ring, extra strong, package of 100
7. Ligature Instrument
8. Cone for loading rings
9. Rubber Ligature Ring, extra heavy, package of 100, contents latex
10. Hemorrhoid Grasping Forceps, angular, for use with Ligature Instrument.
11. Adaptor, for use with Ligature Insert and Proctoscope Tube
12. Proctoscope Tube, outer diameter 24 mm, working length 8 cm, with Obturator
13. Working Attachment, for use with MORGAN Proctoscope and HOPKINS II Telescope
14. Straight Forward Telescope 30°, Eyepiece 45° angled, diameter 4 mm, length 9.5 cm, autoclavable, Fiber optic light transmission incorporated.
15. Light Source: Should have following technical specifications/features
 - a. Separate/combined module from video processor
 - b. Must be latest and high end model from bidder
 - c. Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED
 - d. Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of xenon light source
16. All equipment should be European CE with 4 digit notified body no. or USFDA approved
17. Demonstration of quoted model should be given if desired

BOQ for Rigid Proctoscope		
Sl.No.	Name of the Item	Qty
1	Proctoscope Tube, outer diameter 24 mm, working length 6.5 cm, with Obturator	1 no.
2	Proctoscope Tube, outer diameter 17 mm, working length 6.5 cm, with Obturator	1 no.
3	Fiber Optic Light carrier, with connector to fiber optic light cable	1 no.
4	Fistula Hook, total length 19 cm	1 no.
5	Dressing Forceps, total length 19 cm	1 no.
6	Suction Ligature Instrument for treatment of hemorrhoids, suction opening diameter 10 mm, working length 14 cm, with integrated vacuum pump consisting of: Ligature Attachment, Handle, Loading Cone, Ligature Ring, extra strong, package of 100	1 no.
7	Ligature Instrument	1 no.

8	Cone for loading rings	1 no.
9	Rubber Ligature Ring, extra heavy, package of 100, contents latex	1 no.
10	Hemorrhoid Grasping Forceps, angular, for use with Ligature Instrument.	1 no.
11	Adaptor, for use with Ligature Insert and Proctoscope Tube	1 no.
12	Proctoscope Tube, outer diameter 24 mm, working length 8 cm, with Obturator	1 no.
13	Working Attachment, for use with MORGAN Proctoscope and HOPKINS II Telescope	1 no.
14	Straight Forward Telescope 30°, Eyepiece 45° angled, diameter 4 mm, length 9.5 cm, autoclavable, Fiber optic light transmission incorporated.	1 no.
15	Light Source as per technical specifications	1 no.

Item No. 17 (Rfx/Event number 3000002793)**Rigid Sigmoidoscope****1. RIGID RECTOSCOPE ADULT**

- a. Rectoscope Tube, outer diameter 20-24 mm, working length 20-30 cm, with Obturator
- b. Working Attachment with locking ring for Rectoscope Tube and 2 channels for instruments with diameters up to 5 mm
- c. Forward-Oblique Telescope 30°, with 45° angled eyepiece, diameter 4 mm, length 28.5 cm, for use with Rectoscope Tube and Working Attachment
- d. Rubber insufflation bulb, with detachable tube, with LUER-lock connector, consisting of: Rubber bulb & Rubber tube
- e. Fiber optic cable- Diameter 3.5 to 4 mm with length 230cm or more

2. HAND INSTRUMENTS

- a. Micro Biopsy Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 33-36 cm, single action jaws, consisting of: Plastic Handle, without ratchet Outer Tube, insulated Forceps Insert.
- b. Suction Tube, working length 30-40 cm
- c. Biopsy Forceps, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER lock adaptor for cleaning, large jaws, single action jaws, size 5 mm, length 33-36 cm consisting of: Plastic Handle, without ratchet Outer Sheath, insulated Forceps Insert.
- d. Sponge Holder, working length 30 cm
- e. Suction Tub with thumb control, working length 30 cm

3. 300 Watt Xenon/LED Light Source :

Should have following technical specifications/features

- a. Separate/combined module from video processor
- b. Must be latest and high end model from bidder
- c. Powerful 300 Watt Xenon Lamp with backup lamp of Halogen/LED
- d. Lamp life should not be less than 500 hrs (approx), one spare 300W xenon lamp should be supplied in case of xenon light source

4. All equipment should be European CE with 4 digit notified body no. or USFDA approved

5. Demonstration of quoted model should be given if desired

BOQ for Rigid Sigmoidoscope		
S.No.	Name of the Item	Qty
1	Rectoscope Tube, outer diameter 20-24 mm, working length 20-30 cm, with Obturator	1 no.
2	Working Attachment with locking ring for Rectoscope Tube and 2 channels for instruments with diameters up to 5 mm	1 no.
3	Forward-Oblique Telescope 30°, with 45° angled eyepiece, diameter 4 mm, length 28.5 cm, for use with Rectoscope Tube and Working Attachment	1 no.

BOQ for Rigid Sigmoidoscope		
S.No.	Name of the Item	Qty
4	Rubber insufflation bulb, with detachable tube, with LUER-lock connector, consisting of: Rubber bulb & Rubber tube	1 no.
5	Fiber optic cable- Diameter 3.5 to 4 mm with length 230cm or more	1 no.
Hand Instruments		
6	Micro Biopsy Forceps, rotating, with connector pin for unipolar coagulation, size 5 mm, length 33-36 cm, single action jaws, consisting of: Plastic Handle, without ratchet Outer Tube, insulated Forceps Insert.	1 no.
7	Suction Tube, working length 30-40 cm	1 no.
8	Biopsy Forceps, rotating, dismantling, insulated, with connector pin for unipolar coagulation, with LUER lock adaptor for cleaning, large jaws, single action jaws, size 5 mm, length 33-36 cm consisting of: Plastic Handle, without ratchet Outer Sheath, insulated Forceps Insert.	1 no.
9	Sponge Holder, working length 30 cm	1 no.
10	Suction Tub with thumb control, working length 30 cm	1 no.
11	Light source as per technical specifications	1 no.

Item No. 18 (Rfx/Event number 3000002794)**Direct Rigid Laryngoscope**

S.No.	Technical Specifications
1	LARYNGOSCOPE ADULT AND PEDIATRIC
	Should supply 4 different size standard blades and one handle for adult and pediatric separately and one short stubby handle
	Should be stainless Steel matt finished.
	Should provide curved blades for both adult and pediatric.
	Should be provided with battery
	Should provide spare bulb – 6 nos
	Demonstration should be given if desired

BOQ		
S.No.	Name of the Item	Qty
1	Laryngoscope Adult & Pediatric complete as per specifications	1 set

Item No. 19 (Rfx/Event number 3000002795)**Endoscopy washer & disinfectant system**

S.No.	Technical Specification:
1	Fully automatic microprocessor based endoscope re- processor.
2	Cycle time of reprocessing of endoscope should not be more than 60 mins.
3	Should have facility of Re-processing of at least two endoscopes per cycle or should have option to set up two separate chamber on the top of each other to clean two flexible endoscopes.
4	Should be with single door with front loading system with glass window and light inside the chamber.
5	The system should able to re-process all type of Flexible endoscopes, video bronchoscopes/cystoscopes or fiberscopes/ cystoscopes ,Gastrosopes, Colonoscopies, Rigid endoscopes etc. per cycle.
6	Should have Touch control panel with LCD Color display with highlighting of remaining cycle time to cycle completion.
7	Should have integrated sterile air filter (0.2µm) for channel purging and drying.
8	Should be with integrated endoscope channel monitoring system with 2 independent sensors.
9	Should have leak test at the beginning of the cycle and also should have continuous monitoring during all the phases with automatic cycle stop in case of emergency.
10	Should have conductivity sensor and two chemical dosing pumps and also should have option for 3rd dosing pump. Should have built in drying facility for endoscopes.
11	Should be compatible and tested with Peracetic acid (Cold disinfection) and Glutaraldehyde (thermo- chemical disinfection).
12	Should have process documentation through external printer or USB interface.
13	Should be supplied with washing cart for Flexible endoscope, rigid scopes , Video bronchoscopes. Cystoscopes or fiberscopes/Cystoscopes and should also supply complete range of manufacturer specific adaptors and connectors for the different endoscopes re-processing.
14	Should be also provided with Drying and Storage cabinet for endoscopes with capacity of storage of at least 08 endoscopes.
15	The frame and panel of the drying and storage cabinet should be made of 304 Stainless steel with Single door made in HST Tempered glass.
16	The storage and drying cabinet should be supplied as standard version cassettes and endoscope fast connections.
17	The storage cabinet should have high level HEPA14 air filtering and indirect UV air treatment.
18	Bidder should prices for all accessories & consumables seperately and price to be fixed for 5 years
19	The system should ISO, European CE with 4 digit notified body number/ USFDA approved and should also comply with EN ISO 15883-4 standards. (Certificate should be attached).
20	Demonstration of quoted model should be given if desired

BOQ		
S.No.	Name of the Item	Qty
1	Endoscopy Washer & Disinfection system as per technical specifications	1 no.
2	Washing cart as per technical specifications	1 no.
3	Drying & Storage cabinet for endoscopes as per technical specifications	1 no.

Item No. 20 (Rfx/Event number 3000002796)**Video Laproscopy Set HD System**

S.No.	Description	Qty / set
	Please refer to the Note provided at the end for the Technical Specifications, Complete set of equipments should be quoted of same make/manufacturer otherwise the bids shall be summarily rejected:	
1	Full High Definition ENV/ICG/IR FLUROSENSE TECHNOLOGY Camera System for Laparoscopy	
	Each set should consists of following items:	
	Full High Definition 3 CCD / 3 Chip CMOS Digital Camera/ Processor	1 no.
	It should have pure digital signal with high definition video of 1920x1080 p native resolution both on camera head and console, Should have controls on camera console and camera head.	
	Control of ENV/ICG/IR fluorescent viewing from the camera head or FOOT SWITCH	
	Ergonomic camera head buttons for toggling between various mode and standard white light	
	Camera Head compatible with ENV/ICG/IR Fluorescence	
	It should be compatible with Aspect ratio of 16:9	
	Camera Head should have 2-4 buttons for features like zoom, white balance, for special imaging mode	
	Integrated Gain/Shutter/Enhancement with automatic brightness control	
	Video Output should have all necessary HD outputs	
	The system should automatically optimize all settings. The system should be ready- to- use as soon as it is connected to the camera control unit.	
	The system should be Menu driven, thus allowing the surgeon to program the camera head functions as per the surgical needs & requirement.	
2	LED/Xenon light source with 300 watts	1 no.
	Standby Mode	
	TOGGLE MODE FOR WHITE LIGHT & ICG/IR/ENV	
	light source should be compatible for ICG/IR/ENV	
3	Fiber Optic Light Cable	2 nos.
	Fiber optic cable should be supplied with the endovision system and should be compatible and autoclavable type	
4	High Definition Medical Grade Monitors	1 no.
	High Definition LED/LCD 26" or more Flat Panel Monitor	
	PAL system compatible	
	Video Output should have all necessary HD outputs	
	Compact & Lightweight design	
	Native Resolution 1920 x 1080 p or above.	

5	ENV/ICG /IR Fleurosense compatible Telescopes	
	Angle of view: 0°, 30°, Diameter 10 mm, Length 28 - 30cms, Autoclavble	01 no. each
6	Telescopes (Qty 2 nos. each)	
	<p>I. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.</p> <p>II. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 5 mm, length 30-33, autoclavable, fiber optic light transmission incorporated</p> <p>III. Hopkins Straight Forward Telescope 0° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.</p> <p>IV. Hopkins Straight Forward Telescope 0° enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.</p> <p>V. Hopkins Telescope 45°, enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.</p> <p>VI. Hopkins Telescope 45°, enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission, incorporated.</p>	
7	High Flow Co2 Gas 45 L/min or more Insufflator:	1 no.
	Should have following specifications	
	Should be digital, microprocessor controlled & automatic type	
	Large digital display on front panel for status checking	
	Powerful Insufflation flow rate of 45 L/Min or more required	
	Automatic feedback control for any malfunction. Automatic gas heating to body temperature	
	Should have automatic or manual smoke evacuation facility.	
8	Suction irrigation pump	1 no.
	Should have irrigation flow rate: 0-2 L/min or more	
	Should have irrigation pressure: 0-400mmHg or more	
	Should have Suction pressure: 0-600mmHg or more	
	Should have reusable tube set, suction canisters and other accessories required should be quoted according for smooth functioning	
9	Trolley FROM OEM	1 no.
	Trolley should be capable to mount above-mentioned system with an extra arm for spare monitor	
10	All the items should be compatible with each other & ENV/ICG/IR technology, All the items (CAMERA/LIGHT SOURCE/MONITOR/FIBRE OPTICABLE & Trolley) should be of same make/ manufacturer for system compatibility, all items should be USFDA OR European CE certified with 4 digit notified body number , Certificate should be submitted with tender documents.	

11	The individual components (CAMERA/LIGHT SOURCE/MONITOR/FIBRE OPTICABLE) SHALL BE ALLIGNED TO ICG HD SYSTEM.	
12	Laparoscopy Instruments Set	
	LAPAROSCOPIC DISSECTING & GRASPING FORCEPS	
	<p>a) Single piece instruments: (Qty 2 nos. each) All the instruments should have ergonomic Ring Free handle design to ensure convenient and fatigue free work, larger wheel knob for increased control of 360 degree rotational movement, should be able to use with or without ratchet, non-dismantling, without connector pin for coagulation, double action jaws.</p> <ol style="list-style-type: none"> 1. Dissecting and grasping forceps double action, dolphin nose, size 5 mm, length 36 cm 2. Dissecting and grasping forceps with, double action size 5 mm, length 36 cm 3. REDDICK-OLSEN dissecting and grasping forceps, double action, atraumatic, fenestrated, size 5 mm, length 36 cm 4. BABCOCK grasping forceps double action, atraumatic, fenestrated, size 5 mm, length 36 cm 5. Grasping forceps double action, atraumatic, fenestrated, with multiple teeth, size 5 mm, length 36 cm 6. Grasping forceps double action, spoon-shaped, with multiple teeth, size 5 mm, length 36 cm 7. DeBAKEY grasping forceps double action, atraumatic, size 5 mm, length 36 cm 8. Grasping forceps double action with wavy serration, size 5 mm, length 36 cm 9. Grasping forceps double action, atraumatic, hollow jaws, size 5 mm, length 36 cm 10. Bowel Grasper double action, atraumatic, fenestrated, size 5 mm, length 36 cm. 	
	<p>b) General Specifications for 3 piece instruments (Qty 2 nos. each)</p> <p>All instrument should be with double action jaws, with ergonomic plastic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. Ergonomic Plastic Handles with Larger contact area at the finger rings with connector pin for unipolar coagulation, compatible with above asked instruments.</p> <ol style="list-style-type: none"> 1. KELLY Dissecting and Grasping Forceps, with connector pin for unipolar coagulation, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, double action, plastic handle without ratchet 2. CROCE-OLMI Grasping Forceps, single action with connector pin for unipolar coagulation, rotating, size 5 mm, length 36 cm, long, plastic handle without ratchet. 3. Bowel Grasper, rotating, double action jaws, with connector pin for unipolar coagulation ,fenestrated, size 5 mm, length 36 cm, long, plastic handle without ratchet 4. Right Angled Dissecting and Grasping Forcep, double action jaws, with connector pin for unipolar coagulation ,fenestrated, rotating, size 5 mm, length 36 cm, long, plastic handle without ratchet 	

	<ol style="list-style-type: none"> 5. MANHES Grasping Forceps, single action, Tiger Jaws, 2X4 teeth, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, plastic handle with Manhes type ratchet 6. Anvil Graspers, double action, with connector pin for unipolar coagulation, rotating, double action jaws, fenestrated, , size 5 mm, length 36 cm, long, Plastic handle without ratchet. 7. MANHES Dissecting Grasping Forceps, single action, with connector pin for unipolar coagulation, duck-bill jaws length 15mm, blunt, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, plastic handle without ratchet 8. CLAW Grasping Forceps, single action, with ratchet, 2X3 teeth, single action jaw, rotating, , size 10 mm, length 36 cm, long. 9. METZENBAUM Scissors, double action, curved, rotating, dismantling, with connector pin for unipolar coagulation, with luer-lock connection for cleaning, , size 5 mm, length 36 cm, long, plastic handle without ratchet. 10. Hook Scissors, single action, roatating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long plastic handle without ratchet 11. Dissecting-Electrode L-tip, size 5 mm, length 36 cm, with connector pin for unipolar coagulation, 12. Exchangeable Electrode Tip, L-Shaped 13. Unipolar HF Cord 4mm, 30cm 14. CUSCHIERI Retractor, size 10 mm, length 36cm 	
	<p>c. Trocar & Cannula: Qty 2 nos. each</p> <ol style="list-style-type: none"> 1. Cannula size : 13.5 mm diameter; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 115 mm. 2. Cannula size : 11 mm diameter; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 105 mm. 3. Cannula size : 6mm diameter; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 105 mm. 4. Double reducer, 13.5/10 & 13.5/5mm 	
	<p>d. Veress Needle</p> <p>Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 10cm (2 nos.)</p> <p>Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 13cm (1 nos.)</p> <p>Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 15cm (1 nos.)</p> <p>Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 15cm (1 nos.)</p>	

	e. Injection Needle – Qty -5 nos. Injection needle, LUER-lock, diameter 1.2 mm, size 5 mm, length 36 cm.	
	f. Suction and Irrigation Tube- Qty -2nos. Suction and Irrigation Tube, anti-reflex surface with two-way stopcock, for single hand control, size 5 mm, length 36 cm	
	g. Laparoscopic needle holders – Qty 2 nos. each 1. Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts, ergonomic pistol handle, with disengageable ratchet, jaw curved to left, size: 5mm, length : 33cm for use with suture material size: 0/0 to 7/0. 2. Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts, ergonomic pistol handle, with disengageable ratchet, jaw curved to right, size: 5mm, length : 33cm for use with suture material size: 0/0 to 7/0. 3. KOH needle holder – 1 no.	
	h. Laparoscopic Bipolar Forceps – Qty 2nos. each 1. Three piece laparoscopic Bipolar Coagulating Grasping Forceps, CLERMONT- FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheath, size 5 mm, length 36 cm, long, single action jaws, ergonomic Plastic handle with larger contact area, can be dismantled with the press of a button. 2. Three piece laparoscopic Bipolar KELLY Dissecting & Grasping Forceps, CLERMONT- FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheath, size 5 mm, length 36 cm, long, single action jaws, ergonomic Plastic handle with larger contact area, can be dismantled with the press of a button. 3. Bipolar HF Connecting Cable	

13	<u>IMAGE/VIDEO RECORDING AND DATA ARCHIVING SYSTEM – Qty-1 no.</u>	
	<ol style="list-style-type: none"> 1. 1.FULL-HD(1080P) IMAGE and Full HD(1080P) VIDEO RECORDING AND DATA ARCHIVING SYSTEM 2. BI -AMPLIFIED ACTIVE LOUDSPEAKER -1 3. WIRELESS HEADMIC-1 4. 1-WAY AUDIO/VIDEO STREAMER-1 <ul style="list-style-type: none"> - User friendly software designed specifically for medical purposes - Should captures still images, video sequences and audio files - Record still images and video in FULL HD at (16:9 format) - Writes multi-session and multi-patient CDs/DVDs - Controllable via Touch Screen, camera head buttons, footswitch mouse and keyboard - Fully controllable from inside and outside the sterile field - Supports network storage on file servers - Supports FTP storage - USB support for storage on USB drives - Customizable print-outs for the documented information - HIPAA compliant - Motherboard: Embedded FLEX-ATX 	

	<ul style="list-style-type: none"> - Microprocessor: Intel® Core 2 DUO T7400 - Graphic: Intel® Extreme Graphics 2 Controller onboard - Grabber-card: DVI-D, S- Video, Composite; - Audio: AC97/DD5.1 onboard - RAM: 2 GB DDR2 PC800 - Hard disk: 500 GB SATA 3.5" - Drive: Slim SATA Blu-Ray/DVD RW/+R - Grabber-card: DVI-D, SDI, S- Video, Composite 	
14	The DICOM 3 interface should be installed in the system in order to allow the surgeon to view all the DICOM 3 images stored in the PACS system on a digital light box within the operating rooms. Furthermore, all intra operative images recorded can be sent via the DICOM 3 interface to the PACS system for further processing.	
15	Prices for all accessories & consumables should be quoted separately and prices to be fixed for 5 years	
16	Demonstration of quoted model should be given if desired	

BOQ for Video Laparoscopic sets Full HD system		
S/No.	Name of Items	Quantity
1	Full HD Camera as per technical specifications	1 no.
2	Light Source as per technical specifications	1 no.
3	Fiber Optic Light Cable as per technical specifications	2 nos.
4	Full HD Monitor as per technical specifications	1 no.
5	Insufflator as per technical specifications	1 no.
6	Suction irrigation pump as per technical specifications	1 no.
7	Image/Video recording and data archiving system	1 no.
8	Trolley as per technical specifications	1 no.
ENV/ICG /IR Fleurosense compatible Telescopes as per specs		
9	Angle of view: 0°, 30°, Diameter 10 mm, Length 28 - 30cms, Autoclavble	1 no. Each
Telescopes (Qty 2 nos. each)		
10	I. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.	2 nos.
11	II. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 5 mm, length 30-33, autoclavable, fiber optic light transmission incorporated	2 nos.
12	III. Hopkins Straight Forward Telescope 0° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.	2 nos.
13	IV. Hopkins Straight Forward Telescope 0° enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.	2 nos.
14	V. Hopkins Telescope 45°, enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.	2 nos.
15	VI. Hopkins Telescope 45°, enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission, incorporated.	2 nos.
Laparoscopy Instruments Set : LAPAROSCOPIC DISSECTING & GRASPING FORCEPS: Single piece instruments: (Qty 2 nos. each)		
16	1. Dissecting and grasping forceps double action, dolphin nose , size 5 mm, length 36 cm	2 nos.
17	2. Dissecting and grasping forceps with, double action size 5 mm, length 36 cm	2 nos.

18	3. REDDICK-OLSEN dissecting and grasping forceps, double action, atraumatic, fenestrated, size 5 mm, length 36 cm	2 nos.
19	4. BABCOCK grasping forceps double action, atraumatic, fenestrated, size 5 mm, length 36 cm	2 nos.
20	5. Grasping forceps double action, atraumatic, fenestrated, with multiple teeth , size 5 mm, length 36 cm	2 nos.
21	6. Grasping forceps double action, spoon-shaped, with multiple teeth , size 5 mm, length 36 cm	2 nos.
22	7. DeBAKEY grasping forceps double action, atraumatic, size 5 mm, length 36 cm	2 nos.
23	8. Grasping forceps double action with wavy serration, size 5 mm, length 36 cm	2 nos.
24	9. Grasping forceps double action, atraumatic, hollow jaws , size 5 mm, length 36 cm	2 nos.
25	10. Bowel Grasper double action, atraumatic, fenestrated, size 5 mm, length 36 cm.	2 nos.
LAPAROSCOPIC Hand Instruments: 3 piece instruments (Qty 2 nos. each) as per technical specifications		
26	1. KELLY Dissecting and Grasping Forceps, with connector pin for unipolar coagulation, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, double action, plastic handle without ratchet	2 nos.
27	2. CROCE-OLMI Grasping Forceps, single action with connector pin for unipolar coagulation, rotating, size 5 mm, length 36 cm, long, plastic handle without ratchet.	2 nos.
28	3. Bowel Grasper, rotating, double action jaws, with connector pin for unipolar coagulation ,fenestrated, size 5 mm, length 36 cm, long, plastic handle without ratchet	2 nos.
29	4. Right Angled Dissecting and Grasping Forcep, double action jaws, with connector pin for unipolar coagulation ,fenestrated, rotating, size 5 mm, length 36 cm, long, plastic handle without ratchet	2 nos.
30	5. MANHES Grasping Forceps, single action, Tiger Jaws, 2X4 teeth, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, plastic handle with Manhes type ratchet	2 nos.
31	6. Anvil Graspers, double action, with connector pin for unipolar coagulation, rotating, double action jaws, fenestrated, , size 5 mm, length 36 cm, long, Plastic handle without ratchet.	2 nos.
32	7. MANHES Dissecting Grasping Forceps, single action, with connector pin for unipolar coagulation, duck-bill jaws length 15mm, blunt, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, plastic handle without ratchet	2 nos.
33	8. CLAW Grasping Forceps, single action, with ratchet, 2X3 teeth, single action jaw, rotating, , size 10 mm, length 36 cm, long.	2 nos.
34	9. METZENBAUM Scissors, double action, curved, rotating, dismantling, with connector pin for unipolar coagulation, with luer-lock connection for cleaning, , size 5 mm, length 36 cm, long, plastic handle without ratchet.	2 nos.
35	10. Hook Scissors, single action, roatating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long plastic handle without ratchet	2 nos.
36	11. Dissecting-Electrode L-tip, size 5 mm, length 36 cm, with connector pin for unipolar coagulation,	2 nos.
37	12. Exchangeable Electrode Tip, L-Shaped	2 nos.
38	13. Unipolar HF Cord 4mm, 30cm	2 nos.
39	14. CUSCHIERI Retractor, size 10 mm, length 36cm	2 nos.

Trocar & Cannula: Qty 2 nos. each as per technical specifications		
40	i. Cannula size : 13.5 mm diameter ; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 115 mm.	2 nos.
41	ii. Cannula size : 11 mm diameter ; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 105 mm.	2 nos.
42	iii. Cannula size : 6mm diameter ; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 105 mm.	2 nos.
43	iv. Double reducer, 13.5/10 & 13.5/5mm	2 nos.
Veress Needle as per technical specifications		
44	i. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 10cm (2 nos.)	2 nos.
45	ii. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 13cm (1 nos.)	1 no.
46	iii. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 15cm (1 nos.)	1 no.
47	iv. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 15cm (1 nos.)	1 no.
48	Injection Needle as per specs	5 nos.
49	Suction and Irrigation Tube	2 nos.
Laparoscopic needle holders – Qty 2 nos. each as per specs		
50	i. Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts, ergonomic pistol handle, with disengable ratchet, jaw curved to left, size: 5mm, length : 33cm for use with suture material size: 0/0 to 7/0.	2 nos.
51	ii. Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts, ergonomic pistol handle, with disengable ratchet, jaw curved to right, size: 5mm, length : 33cm for use with suture material size: 0/0 to 7/0.	2 nos.
52	KOH needle holder – 1 no	1 no.
Laparoscopic Bipolar Forceps – Qty 2nos. each as per technical specifications		
53	i. Three piece laparoscopic Bipolar Coagulating Grasping Forceps, CLERMONT- FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, single action jaws, ergonomic Plastic handle with larger contact area, can be dismantled with the press of a button.	2 nos.
54	ii. Three piece laparoscopic Bipolar KELLY Dissecting & Grasping Forceps, CLERMONT- FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, single action jaws, ergonomic Plastic handle with larger contact area, can be dismantled with the press of a button.	2 nos.
55	iii. Bipolar HF Connecting Cable	2 nos.

Item No. 21 (Rfx/Event number 3000002797)

Video Laparoscopic set 3D system

Advanced 3D Laparoscopy system:

1) 3D Telescope: 1 no.

- a. 3D System should provide Full HD imaging with Resolution of 1920x1080p.
- b. Integrated video laparoscope, 10 mm, 0 deg and 30° direction of view Rigid **or** Integrated video laparoscope, 10 mm, 0 deg flexible
- c. 3D system should have polarizing system for Image Reproduction, for using economical eye-wear for flicker-free and bright image.
- d. 3D system should have Provision for switch over between 3D/2D observation mode, from the 3D telescope.
- e. 3D telescope design should eliminate the image rotation distortion associated with 3D vision.
- f. Easy switching between 2D and 3D modes
- g. Should be capable of providing following 3D transmission outputs-
3G-SDI, Line by Line OR Side by Side by DVI-D
- h. Should have facility for automatic brightness control for best distribution of light evenly over the image field
- i. The 3D scope should be of 10 mm in diameter with High Resolution Dual Lens Chip on tip Technology
- j. Should also have a facility to connect routine HD 3 CCD/ CMOS 3 chip camera head for surgery for use with non-video telescopes for routine 2D applications when 3D is not desired.
- k. The 3D scope should have Light Cable and Camera connectors
- l. The 3D scope should be light weight & easy to handle
- m. The 3D scope should be compatible with ETO /plasma/low temperature means of reprocessing techniques

2) Telescopes: 2 nos. each

- a. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.
- b. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 5 mm, length 30-33, autoclavable, fiber optic light transmission incorporated
- c. Hopkins Straight Forward Telescope 0° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated
- d. Hopkins Straight Forward Telescope 0° enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.
- e. Hopkins Telescope 45°, enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.
- f. Hopkins Telescope 45°, enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission, incorporated.

3) Xenon/LED light source – 1 no.

- a. 3D system should have a Xenon/LED Light Source to keep Laparoscopy field brighten by providing adequate white light intensity which Automatically adjusts light intensity to achieve ideal illumination
- b. The system should have special filter light for observation of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions
- c. Should be ICG/IR compatible
- d. Should be 300 Watts Xenon/LED

4) 3D Monitor-2 nos.

- a. One monitor should be mounted on larpscopy trolley and second monitor on boom arm of Modular Operation Theatres . Accessories for mounting on boom arm should be provided
- b. The 3D Monitor should be Full HD with 32 inch or above in screen size
- c. The 3D monitor should necessary inputs for 3D Image display
- d. The 3D monitor should have necessary HD output for 3D image transmission
- e. The 3D monitor should have brightness adjustment feature when switch between 2D/3D image
- f. The system should be supplied with 10 nos. of light weight polarized glasses

5) 3CCD Camera head /CMOS 3 chip camera head 1 no.

- a. The camera head should be compatible for observation of capillary vessels and fine patterns in the superficial layer of mucosa for early detection of lesions,
- b. The full HD camera head should be of Eye piece type & have resolution of 1920x1080 pixels.
- c. Should have Digital / Manual focus function which can be varied seamlessly from coarse to fine image.
- d. Camera Head & coupler should be one piece.
- e. Should be ICG/IR compatible

6) Full HD Recording Device for 3D & 2D recording system: 1 no.

Should have following specifications-

- a. It should be Full high definition dual channel real time recording facility on video recording device to record ,store & transmit 3D videos & images.
- b. Should have internal hard disk drive of 2 TB or more and should have facility of recording on Blu Ray Disc / DVD Disc or USB memory stick if required by user.
- c. The recorder should have at least two inputs of DVI, HD-SDI for recording from various sources on 2 channels.
- d. Should also have an facility for one channel audio recording in real time with Endoscopy image
- e. Should be able to edit the archived videos like cutting , cropping etc.,
- f. It should have touch screen with screen size of 19 inch or more.

7) High Flow Co2 Gas 45 L/min or more Insufflator:- 1 no.

- a. Should have following specifications
- b. Should be digital, microprocessor controlled & automatic type
- c. Large digital display on front panel for status checking
- d. Powerful Insufflation flow rate of 45 L/Min or more required
- e. Automatic feedback control for any malfunction.
- f. Should have automatic or manuals smoke evacuation facility.

8) Trolley (video cart) should be supplied for the system OEM -1 no.

- a. Made of Stainless Steel/ Epoxy coated metal with minimum 4 shelves.
- b. Portable on 4 antistatic dual castors, 2 with locking brakes
- c. Should have minimum 3 shelves or more
- d. Should have anti- static strong wheels

9) LAPAROSCOPIC Hand Instruments**a) Single piece instruments:** (Qty 2 nos. each)

All the instruments should have ergonomic Ring Free handle design to ensure convenient and fatigue free work, larger wheel knob for increased control of 360

degree rotational movement, should be able to use with or without ratchet, non-dismantling, without connector pin for coagulation, double action jaws.

- i. Dissecting and grasping forceps double action, **dolphin nose**, size 5 mm, length 36 cm
- ii. Dissecting and grasping forceps with, double action size 5 mm, length 36 cm
- iii. **REDDICK-OLSEN** dissecting and grasping forceps, double action, atraumatic, fenestrated, size 5 mm, length 36 cm
- iv. **BABCOCK** grasping forceps double action, atraumatic, fenestrated, size 5 mm, length 36 cm
- v. Grasping forceps double action, atraumatic, **fenestrated, with multiple teeth**, size 5 mm, length 36 cm
- vi. Grasping forceps double action, **spoon-shaped, with multiple teeth**, size 5 mm, length 36 cm
- vii. **DeBAKEY** grasping forceps double action, atraumatic, size 5 mm, length 36 cm
- viii. Grasping forceps double action with wavy serration, size 5 mm, length 36 cm
- ix. Grasping forceps double action, **atraumatic, hollow jaws**, size 5 mm, length 36 cm
- x. **Bowel Grasper** double action, atraumatic, fenestrated, size 5 mm, length 36 cm.

b) General Specifications for 3 piece instruments (Qty 2 nos. each)

All instrument should be with double action jaws, with ergonomic plastic handle with larger contact area at the finger ring to avoid pressure sores, can be dismantled with the press of a button. Ergonomic Plastic Handles with Larger contact area at the finger rings with connector pin for unipolar coagulation, compatible with above asked instruments.

- i. KELLY Dissecting and Grasping Forceps, with connector pin for unipolar coagulation, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, double action, plastic handle without ratchet
- ii. CROCE-OLMI Grasping Forceps, single action with connector pin for unipolar coagulation, rotating, size 5 mm, length 36 cm, long, plastic handle without ratchet.
- iii. Bowel Grasper, rotating, double action jaws, with connector pin for unipolar coagulation ,fenestrated, size 5 mm, length 36 cm, long, plastic handle without ratchet
- iv. Right Angled Dissecting and Grasping Forcep, double action jaws, with connector pin for unipolar coagulation ,fenestrated, rotating, size 5 mm, length 36 cm, long, plastic handle without ratchet
- v. MANHES Grasping Forceps, single action, Tiger Jaws, 2X4 teeth, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, plastic handle with Manhes type ratchet
- vi. **Anvil** Graspers, double action, with connector pin for unipolar coagulation, rotating, double action jaws, fenestrated, , size 5 mm, length 36 cm, long, Plastic handle without ratchet.
- vii. MANHES Dissecting Grasping Forceps, single action, with connector pin for unipolar coagulation, duck-bill jaws length 15mm, blunt, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, plastic handle without ratchet
- viii. CLAW Grasping Forceps, single action, with ratchet, 2X3 teeth, single action jaw, rotating, , size 10 mm, length 36 cm, long.
- ix. METZENBAUM Scissors, double action, curved, rotating, dismantling, with connector pin for unipolar coagulation, with luer-lock connection for cleaning, , size 5 mm, length 36 cm, long, plastic handle without ratchet.
- x. Hook Scissors, single action, roatating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long plastic handle without ratchet

- xi. Dissecting-Electrode L-tip, size 5 mm, length 36 cm, with connector pin for unipolar coagulation,
- xii. Exchangeable Electrode Tip, L-Shaped
- xiii. Unipolar HF Cord 4mm, 30cm
- xiv. CUSCHIERI Retractor, size 10 mm, length 36cm

c. Trocar & Cannula: Qty 2 nos. each

- i. Cannula size : **13.5 mm diameter**; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO₂ insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO₂ gas. The working length of the cannula should be 115 mm.
- ii. Cannula size : **11 mm diameter**; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO₂ insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO₂ gas. The working length of the cannula should be 105 mm.
- iii. Cannula size : **6mm diameter**; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO₂ insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO₂ gas. The working length of the cannula should be 105 mm.
- iv. Double reducer, 13.5/10 & 13.5/5mm

d. Veress Needle

- i. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 10cm (2 nos.)
- ii. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 13cm (1 nos.)
- iii. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 15cm (1 nos.)
- iv. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 15cm (1 nos.)

e. Injection Needle – Qty -5 nos.

Injection needle, LUER-lock, diameter 1.2 mm, size 5 mm, length 36 cm.

f. Suction and Irrigation Tube- Qty -2nos.

Suction and Irrigation Tube, anti-reflex surface with two-way stopcock, for single hand control, size 5 mm, length 36 cm

g. Laparoscopic needle holders – Qty 2 nos. each

- i. Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts, ergonomic pistol handle, with disengageable ratchet, jaw curved to left, size: 5mm, length : 33cm for use with suture material size: 0/0 to 7/0.
- ii. Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts, ergonomic pistol handle, with disengageable ratchet, jaw curved to right, size: 5mm, length : 33cm for use with suture material size: 0/0 to 7/0.

iii. KOH needle holder – 1 no.

h. Laparoscopic Bipolar Forceps – Qty 2nos. each

- i. Three piece laparoscopic Bipolar Coagulating Grasping Forceps, CLERMONT-FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, single action jaws, ergonomic Plastic handle with larger contact area, can be dismantled with the press of a button.
- ii. Three piece laparoscopic Bipolar KELLY Dissecting & Grasping Forceps, CLERMONT- FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, single action jaws, ergonomic Plastic handle with larger contact area, can be dismantled with the press of a button.
- iii. Bipolar HF Connecting Cable

10. All quoted items should be European CE certified with four digit notified body number /US FDA approved.

11. All items should be from same manufacture unless specified

12. Demonstration of quoted model should be given if desired

13. Price for all accessories and consumables should be quoted separately and prices to be fixed for 5 years

BOQ for Video Laparoscopic set 3D system		
S/No.	Name of Items	Quantity
1	3D Telescope as per technical specifications	1 no.
2	Light Source as per technical specifications	1 no.
3	3D Monitor as per technical specifications	2 nos.
4	3 CCD Camera head/CMOS 3chip camera head as per technical specifications	1 no.
5	Full HD recording Device for 3D & 2D recording as per technical specifications	1 no.
6	Insufflator as per technical specifications	1 no.
7	Trolley as per technical specifications	1 no.
Telescopes: 2 nos. each		
8	a. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.	2 nos.
9	b. Hopkins Forward-Oblique Telescope 30° enlarged view, diameter 5 mm, length 30-33, autoclavable, fiber optic light transmission incorporated	2 nos.
10	c. Hopkins Straight Forward Telescope 0° enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.	2 nos.
11	d. Hopkins Straight Forward Telescope 0° enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.	2 nos.

12	e. Hopkins Telescope 45°, enlarged view, diameter 10 mm, length 30-33 cm, autoclavable, fiber optic light transmission incorporated.	2 nos.
13	f. Hopkins Telescope 45°, enlarged view, diameter 5 mm, length 30-33 cm, autoclavable, fiber optic light transmission, incorporated	2 nos.
LAPAROSCOPIC Hand Instruments: Single piece instruments: (Qty 2 nos. each) as per technical specifications		
14	i. Dissecting and grasping forceps double action, dolphin nose , size 5 mm, length 36 cm	2 nos.
15	ii. Dissecting and grasping forceps with, double action size 5 mm, length 36 cm	2 nos.
16	iii. REDDICK-OLSEN dissecting and grasping forceps, double action, atraumatic, fenestrated, size 5 mm, length 36 cm	2 nos.
17	iv. BABCOCK grasping forceps double action, atraumatic, fenestrated, size 5 mm, length 36 cm	2 nos.
18	v. Grasping forceps double action, atraumatic, fenestrated, with multiple teeth , size 5 mm, length 36 cm	2 nos.
19	vi. Grasping forceps double action, spoon-shaped, with multiple teeth , size 5 mm, length 36 cm	2 nos.
20	vii. DeBAKEY grasping forceps double action, atraumatic, size 5 mm, length 36 cm	2 nos.
21	viii. Grasping forceps double action with wavy serration, size 5 mm, length 36 cm	2 nos.
22	ix. Grasping forceps double action, atraumatic, hollow jaws , size 5 mm, length 36 cm	2 nos.
23	x. Bowel Grasper double action, atraumatic, fenestrated, size 5 mm, length 36 cm.	2 nos.
LAPAROSCOPIC Hand Instruments: 3 piece instruments (Qty 2 nos. each) as per technical specifications		
24	i. KELLY Dissecting and Grasping Forceps, with connector pin for unipolar coagulation, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, double action, plastic handle without ratchet	2 nos.
25	ii. CROCE-OLMI Grasping Forceps, single action with connector pin for unipolar coagulation, rotating, size 5 mm, length 36 cm, long, plastic handle without ratchet.	2 nos.
26	iii. Bowel Grasper, rotating, double action jaws, with connector pin for unipolar coagulation ,fenestrated, size 5 mm, length 36 cm, long, plastic handle without ratchet	2 nos.
27	iv. Right Angled Dissecting and Grasping Forcep, double action jaws, with connector pin for unipolar coagulation ,fenestrated, rotating, size 5 mm, length 36 cm, long, plastic handle without ratchet	2 nos.
28	i. MANHES Grasping Forceps, single action, Tiger Jaws, 2X4 teeth, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, plastic handle with Manhes type ratchet	2 nos.

29	ii. Anvil Graspers, double action, with connector pin for unipolar coagulation, rotating, double action jaws, fenestrated, , size 5 mm, length 36 cm, long, Plastic handle without ratchet.	2 nos.
30	iii. MANHES Dissecting Grasping Forceps, single action, with connector pin for unipolar coagulation, duck-bill jaws length 15mm, blunt, rotating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long, plastic handle without ratchet	2 nos.
31	iv. CLAW Grasping Forceps, single action, with ratchet, 2X3 teeth, single action jaw, rotating, , size 10 mm, length 36 cm, long.	2 nos.
32	v. METZENBAUM Scissors, double action, curved, rotating, dismantling, with connector pin for unipolar coagulation, with luer-lock connection for cleaning, , size 5 mm, length 36 cm, long, plastic handle without ratchet.	2 nos.
33	vi. Hook Scissors, single action, roatating, with connector pin for unipolar coagulation, size 5 mm, length 36 cm, long plastic handle without ratchet	2 nos.
34	vii. Dissecting-Electrode L-tip, size 5 mm, length 36 cm, with connector pin for unipolar coagulation,	2 nos.
35	viii. Exchangeable Electrode Tip, L-Shaped	2 nos.
36	ix. Unipolar HF Cord 4mm, 30cm	2 nos.
37	x. CUSCHIERI Retractor, size 10 mm, length 36cm	2 nos.
Trocar & Cannula: Qty 2 nos. each as per technical specifications		
38	i. Cannula size : 13.5 mm diameter ; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 115 mm.	2 nos.
39	ii. Cannula size : 11 mm diameter ; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 105 mm.	2 nos.
40	iii. Cannula size : 6mm diameter ; should have multifunctional valve to prevent damage of sharp instruments and tip lens while passing through the cannula valve. It should have stopcock for CO2 insufflation. Trocar should have pyramidal tip with pin holes near the tip for safety outlet of CO2 gas. The working length of the cannula should be 105 mm.	2 nos.
41	iv. Double reducer, 13.5/10 & 13.5/5mm	2 nos.
Veress Needle as per technical specifications		
42	i. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 10cm (2 nos.)	2 nos.

43	ii. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 13cm (1 nos.)	1 no.
44	iii. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 15cm (1 nos.)	1 no.
45	iv. Veress Pneumoperitoneum needle with spring loaded blunt inner cannula, LUER-Lock, working length 15cm (1 nos.)	1 no.
46	Injection Needle as per specs	5 nos.
47	Suction and Irrigation Tube	2 nos.
Laparoscopic needle holders – Qty 2 nos. each as per technical specifications		
48	i. Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts, ergonomic pistol handle, with disengable ratchet, jaw curved to left, size: 5mm, length : 33cm for use with suture material size: 0/0 to 7/0.	2 nos.
49	ii. Macro needle holder with tungsten carbide insert, dismantling into three parts namely, outer tube, handle and inserts, ergonomic pistol handle, with disengable ratchet, jaw curved to right, size: 5mm, length : 33cm for use with suture material size: 0/0 to 7/0.	2 nos.
50	KOH needle holder – 1 no	1 no.
Laparoscopic Bipolar Forceps – Qty 2nos. each as per technical specifications		
51	i. Three piece laparoscopic Bipolar Coagulating Grasping Forceps, CLERMONT- FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, single action jaws, ergonomic Plastic handle with larger contact area, can be dismantled with the press of a button.	2 nos.
52	ii. Three piece laparoscopic Bipolar KELLY Dissecting & Grasping Forceps, CLERMONT- FERRAND MODEL, Wide jaws, with connector pin for bipolar coagulation, 360 degree rotational sheeth, size 5 mm, length 36 cm, long, single action jaws, ergonomic Plastic handle with larger contact area, can be dismantled with the press of a button.	2 nos.
53	iii. Bipolar HF Connecting Cable	2 nos.

Item No. 22 (Rfx/Event number 3000002798)**Video-Laryngoscope for Surgical Oncology**

1	Screen size should be 2.4” or more with color display
2	Light source: LED
3	Camera: CCD or CMOS
4	Resuable Blade size: 2, 3, 4 and D blade – 2 no. each size should be quoted.
5	ET tube insertion dia: 6 mm-8 mm
6	Operates either on rechargeable lithium battery or on AAA batteries
7	Offered model should be European CE or USFDA approved.
8	Demonstration of quoted model should be offered if desired

Sl.No.	BOQ	Qty
1	Video Lyrangoscope as per specification	1 Nos
2	Blade size: 2, 3, 4 and D blade	2 Nos each

Item No. 23 (Rfx/Event number 3000002799)**Video Laryngoscope for Onco Anesthesia**

Laryngoscope required with video illumination to visualize and document the operational area on screen. It should consist of following features:

1. Required is Macintosh blade with closed European Metal finish size 2, 3 and 4 with integrated camera chip and LED light illumination for obtaining more than 50000 Lux of brightness.
2. One special blade for difficult intubation with device for introduction of suction catheter for size 16-18 Fr., angle view should be approx. 80 degrees.
3. One special pediatric blade for difficult intubation should be provided.
4. Two miller size 0 & 1 blade should present in the set.
5. All blades should be reusable and metallic.
6. Screen 7 inch or more in size for display with feature control buttons on the screen with HDMI or HD output for connecting to a big screen. Two output ports with monitor to connect scope and video laryngoscope at one time and toggle button to use the same once at a time.
7. Automatic/ manual white balance facility should be available.
8. Documentation of Video & still images should be possible on data card or USB drive with JPEG and MPEG 4 format which can be easily transferred to the computer/laptop. Documented videos & still images should be easily recalled on the monitor.
9. Monitor should have a facility to connect flexible scope and video laryngoscope blade directly without any special coupler or accessory.
10. Integrated recording should be done on a USB drive.
11. Safety bag should be provided with facility to operate the monitor from the bag
12. One guide rod of package of 10, each made of stainless steel with atraumatic tip with integrated tube holder should be provided for special curved blade
13. Unit should run on both a/c and battery life should be more than 100 minutes
14. Magill's forceps 25 cm or more for foreign body removal and for assisting nasal intubation for video laryngoscope blade size 2-4
15. Magill's forceps 20 cm for foreign body removal and for assisting nasal intubation for video laryngoscope blade size 1-2
16. IV Stand for positioning the monitor, with tray for laryngoscopes should be provided
17. Accessories like protection cap, tray for cleaning and sterilization of blades (at least two blades at a time) should be provided
18. Blades and connection cable should be fully immiscible in disinfecting solution
19. Electronic module to connect blades with monitor suitable for manual and mechanical disinfection up to 60 ° C; Steris; Sterrad; High Level Disinfection (HLD) acc. To US standards, for use with video laryngoscopes
20. IV-stand for monitor, height 120 cm, roll able with five legs and antistatic castors, crossbar 25 cm x diameter 25 mm for positioning the monitor, with tray, dimensions (w x d x h): 30 x 20 x 10 cm use with: 8401YAA Crossbar 8401YB Crossbar
21. All equipment should be from the same manufacturer.
22. It should be USFDA and European CE approved from notified body.
23. Must provide at least 3 performance certificates from government hospital (more than 250 bedded) with installation from more than 3 years.

BOQ for Video Laryngoscope for Onco Anesthesia Dept.

S.No.	Name of the Item	Qty
1	Macintosh blade with closed European Metal finish size 2, 3 and 4 as per technical specifications.	1 set
2	special blade for difficult intubation as per technical specifications	1 no.
3	special pediatric blade for difficult intubation as per technical specifications	1 no.
4	miller size 0 & 1 blade	1 set
5	One guide rod of package of 10, each made of stainless steel with atraumatic tip with integrated tube holder should be provided for special curved blade	1 set
7	Magill's forceps 25 cm or more for foreign body removal and for assisting nasal intubation for video laryngoscope blade size 2-4	1 set
8	Magill's forceps 20 cm for foreign body removal and for assisting nasal intubation for video laryngoscope blade size 1-2	1 set
9	IV Stand as per technical specifications	1 set
10	Accessories like protection cap, tray for cleaning and sterilization of blades (at least two blades at a time) should be provided	1 set
11	Blades and connection cable should be fully immiscible in disinfecting solution	1 set
12	Electronic module to connect blades with monitor suitable for manual and mechanical disinfection up to 60 °C; Steris; Sterrad; High Level Disinfection (HLD) acc. To US standards, for use with video laryngoscopes	1 set

Item No. 24 (Rfx/Event number 3000002800)

VATS (Video Assisted Thoracoscopy Surgery) & Mediastinoscopy set with Full HD camera & Recording device

ENDOSCOPIC EQUIPMENT

1. 3-CHIP FULL HD ENDOSCOPIC CAMERA , QTY 1 no.

- 1.1 It shall be a High-Definition digital camera that captures images on three 16:9 aspect ratio CCD chips in the camera head and transmits that High-Definition signal to the 16:9 aspect ratio monitors in a 1:1 representation without scaling or de-interlacing.
- 1.2 The camera should have the following features:
- a. It should convert the optical images into a digital signal at the camera head level.
 - b. The camera's CCDs should have a 16:9 aspect ratio with an acquisition resolution of 1920 x 1080 progressive scanning.
 - c. PARFOCAL optical zoom to guarantee that the best quality image will be captured by the three (3) CCDs at the camera head.
 - d. All-digital circuitry for increased image accuracy, less noise in the image, and no image degradation from camera head to video output.
 - e. Camera features and functions can be programmed for access via the camera head buttons.
 - f. Digital image enhancement and fiberoptic endoscope filtering capabilities to increase the level of contrast and definition of the image.
 - g. Eighteen options for exposure control, including automatic exposure system and seventeen manual exposure control settings.
 - h. All camera functions can be controlled by a keyboard connected to the camera control unit.
- 1.3 The camera should have the following technical specifications:
- a. Camera Control Unit:
 - i. Power supply voltage: 100-240 VAC
 - ii. Power frequency: 50-60 Hz
 - iii. Operating temperature: +10°C to +40°C
 - iv. AGC: +18 dB
 - v. Video output: 2x DVI-D signal (HD digital signal),
1xRGB signal to 15 pin HD D sub sockets,
2x S-Video (Y/C signal) to S-Video,
1xComposite signal to BNC socket
 - b. Camera Head:

i. Image sensor	: 3x1/3"
ii. Aspect ratio	: 16:9
iii. Picture elements	: 1920 x 1080p (2,073,600 pixels)
iv. Scan method	: Progressive
v. Refresh rate	: 50 Hz
vi. Internal lens	: Parfocal 2:1
vii. Optical zoom lens	: f = 14-30mm
- 1.4 The camera should also comply with the following standards:
- a. According to: IEC 60601-1, 60601-2-18, UL 2601.1 CSA 22.2 No. 601.1-M90:
 - b. Type of protection against electrical shocks: Protection Class I.
 - c. Degree of protection against electrical shocks: Applied part of type CF defibrillator proof
 - d. According to Medical Device Directive (MDD) the camera should belong to Class I and bear the CE mark in accordance with MDD 93/42/EEC

2. LIGHT SOURCE (300W)/LED with 2light cables and spare Lamp Qty 1 no.

- a. It shall be a Xenon Cold Light Fountain with a 300W Xenon lamp that has a colour temperature exceeding 6000 deg K. The light source shall be suitable for virtually all endoscopic interventions and producing excellent results especially for photographic and video documentation.
- b. The light source should have the following features:
 - i. Full light intensity is reached as soon as the lamp is switched on.
 - ii. The brightness, continuously adjustable from 0-100%, is regulated via a microprocessor controlled opto-mechanical dimmer while the lamp current remains unchanged in order to avoid instabilities of the arc and to insure maximum lamp service life.
 - iii. The brightness can be regulated manually or automatically via the output signal of a video camera.
 - iv. An anti-fog air pump is available for endoscopes which have a special anti-fog channel to prevent the lens from misting up.
 - v. Stand-by function is available to avoid switching the light source on/off frequently during short interruptions. This function would decrease wear of the Xenon lamp.
 - vi. Display of lamp service life.
- c. The light source should have the following technical specifications:
 - i. Power supply voltage: 100-240 VAC
 - ii. Power frequency: 50-60 Hz
 - iii. Operating temperature +10°C to +40°C
 - iv. Lamp wattage: 300 W
 - v. Lamp voltage: 13-16 VDC
- d. The light source should also comply with the following standards:
 - i. According to: IEC 60601-1, 60601-2-18, UL 60601-1, CAN/CSA 22.2 No. 601.1-M90:
 - ii. Type of protection against electrical shocks: Protection Class I.
 - iii. Degree of protection against electrical shocks: Applied part of type CF
 - iv. Type of protection against moisture: drip water protection as per IPX 1
 - v. According to Medical Device Directive (MDD) the light source should belong to Class II a and bear the CE mark in accordance with MDD 93/42/EEC

3. 26" FULL HD FLAT SCREEN, QTY 1 no.

3.1 The surgical display screens shall be medical grade 26" FULL HD LED Screen with the following video inputs:

- a. DVI-D (digital)SDI (digital)
- b. VGA, RGBS
- c. S-Video
- d. Composite
- e. SOG input

3.2 The display screens should also have the following optical specifications:

- a. Viewable area (diagonal) : 26"
- b. Resolution : 1920 x 1080 or more
- c. Brightness : 500 cd/m²
- d. Image Contrast Ratio : 800:1
- a. Colour Scale : 100%
- b. Viewing angle (H & V) : 178°

- c. Simultaneous colours : 16.8 million
- d. Dot pitch : 0.287
- e. Response time :5-12 ms
- f. Glass technology Dual : IPS
- g. Technology foundation : Active matrix

3.3 The display screens should comply the highest safety standards:

- a. Fanless cooling prevents the introduction of contaminants into the sterile field.
- b. Low voltage (24 VDC) external power supply maybe located 30m away from the screen, removing any electrical concern.
- c. Front sealed, anti-glare overlay guarantees the highest level of defence against liquid ingress.
- d. Membrane style buttons and a non dimpled enclosure ensure foreign matter will not accumulate into voids and possibly spread contaminants.
- e. The display screens shall not weigh more than 8.2 kg.

4. FULL HD IMAGE/VIDEO RECORDING AND DATA ARCHIVING SYSTEM, QTY-1

- i. User friendly software designed specifically for medical purposes
- ii. Captures still HD images, video sequences (from 3 sources), and audio files
- iii. Resolution of still images should be 1920x1080 and that of video 1080p @25p
- iv. Writes multi-session and multi-patient CDs/DVDs
- v. Controllable via Touch Screen, camera head buttons, footswitch mouse and keyboard
- vi. Fully controllable from inside and outside the sterile field
- vii. Supports network storage on file servers
- viii. Supports FTP storage
- ix. USB support for storage on USB drives
- x. Customizable print-outs for the documented information
- xi. Prints to any connected printer (local or network)
- xii. HIPAA compliant
- xiii. Buffer system to insure reliability
- xiv. Medical grade unit with CE mark
- xv. Chipset: Intel® 855GME + Intel® 6300ESB Embedded
- xvi. Processor: Intel® Pentium® M 735
- xvii. Graphic: Intel® Extreme Graphics 2 Controller onboard
- xviii. Grabber-card: DVI-D, SDI, S- Video, Composite;
- xix. Audio: AC97/DD5.1 onboard
- xx. Optional: AGP Slot onboard
- xxi. RAM: 2GB
- xxii. Hard disk:500 GB SATA 3.5”
- xxiii. Drive: Multiform Slim line DVD RW
- xxiv. PCI Slots: 3 x PCI
- xxv. LAN: 3 x 10/100/1000 Mbps onboard
- xxvi. I/O ports: 2 x PS/2, 2 x Serial, 3 x RJ45 (LAN), 4 x USB 2.0 (1 x Front), 3 x Audio (Line In, Line Out and Microphone), VGA;
- xxvii. Dongle: Slot for USB- Dongle inside the computer case
- xxviii. DICOM and HL7 interface
 - The DICOM 3 interface shall be installed to the system in order to allow the surgeon to view all the DICOM 3 images stored in the PACS system on a digital light box within the operating rooms. Furthermore, all intra operative images recorded can be sent via the DICOM 3 interface to the PACS system for further processing.
 - The HL7 interface system shall be connected to the Image and Data Archiving system to allow the patients demographics to be downloaded directly to the patients data file.

4.1 Mobile Videocart - QTY 1

- a. Imported Equipment cart, rides on 4 antistatic dual wheels, 2 Equipped with locking brakes,
- b. 3 Fixed shelves, one with handles, main switch at vertical beam, integrated cable conduits in vertical beams, Drawer unit with lock,
- c. 3 Horizontal cable conduits, one with cable winding, two with 4- times Electrical sub-distributor
- d. Set of non- sliding stands for units – 1 no.
- e. Monitor holding arm (VESA 75/100) – 1 no.
- f. Camera holder– 1 no.
- g. Power cords (50cm) – 8 nos.
- h. Power cord (2m)– 1 no.
- i. Equipment rails – 2 nos.
- j. CO2- bottle holder, max. diameter 155mm – 1no.
- k. Isolation transformer 230VAC (50/60Hz) with 8 sockets and earth potential and Earth leakage monitor (2000VA), Dimensions: shelf of approx.: 630 x 480 mm (w x d) – 1no.
- l. caster diameter: 150 mm

4.2 Additional Arm - QTY 1

- a. Monitor Holding Arm, lateral, 600mm
- b. Monitor holding arm for mounting on vertical beam, height adjustable, inclinable, mounted on vertical beam left or right, turning radius approx. 190°, overhang 600mm, load

5. Thoracoscopy instruments Set-

- i. Rod Lens Telescope 30°, enlarged view, diameter 10 mm, length 31 cm, autoclavable. fiber optic light transmission incorporated.-Qty 1 no.
- ii. Rod lens Telescope 30°, enlarged view, diameter 5 mm, length 29 cm, autoclavable. -Qty 1 no.
- iii. Rod lens Telescope 0°, with angled eyepiece, diameter 10 mm, length 27 cm with 6 mm instrument channel, autoclavable -Qty 1 no.
- iv. Telescope, 10 mm, length 32 cm, variable direction of view from 0° - 120°, twisting controller to select the desired view of direction, fiber optic light transmission incorporated –Qty 1 no.
- v. Trocar, size 11 mm, autoclavable consisting of: Trocar, with blunt tip, Trocar Cannula, flexible, without valve, length 8.5 cm-Qty 2 nos.
- vi. Plastic cannula autoclavable for use with flexible trocar size 11 mm- package of 5-Qty 1 no.
- vii. Trocar, size 6 mm, autoclavable consisting of: Trocar, with blunt tip, Trocar Cannula, flexible, without valve, length 8.5 cm-Qty 2 nos.
- viii. Plastic cannula autoclavable for use with flexible trocar size 6 mm- package of 5-Qty 1 no.
- ix. Trocar, size 6 mm, consisting of: Trocar with blunt tip, Cannula with thread, length 4 cm –Qty 1 no.
- x. Trocar, size 6 mm, consisting of: Trocar, only with blunt tip, Cannula with thread, length 6 cm - Qty 1 no.
- xi. Trocar, size 11 mm, consisting of: Trocar only, with blunt tip, Cannula with thread, length 6 cm– Qty 1 no.
- xii. Trocar, size 6 mm consisting of: Trocar with blunt tip, Cannula without thread, length 6.5 cm, with insufflation stopcock, Silicon Leaflet Valve, size 6 mm–Qty 1 no.

- xiii. Trocar, size 11 mm consisting of: Trocar with blunt tip, Cannula without thread, length 6.5 cm, with insufflation stopcock, Silicon Leaflet Valve, size 11 mm–Qty 1 no.
- xiv. Trocar, size 13 mm, consisting of: Trocar with blunt tip, Cannula with thread, length 4 cm–Qty 1 no.
- xv. Trocar, size 13 mm, consisting of: Trocar with blunt tip. Cannula with thread, length 6 cm. –Qty 1 no.
- xvi. Parenchymal Forceps, atraumatic, straight jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, with ratchet, Outer Tube with Working Insert–Qty 1 no.
- xvii. Parenchymal Forceps, atraumatic, double curved jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, with ratchet, Outer Tube with Working Insert–Qty 1 no.
- xviii. Lung Forceps, atraumatic, fenestrated, curved jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, Outer Tube with Working Insert–Qty 1 no.
- xix. Dissecting and Grasping Forceps, curved jaws, double action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, Outer Tube with Working Insert–Qty 1 no.
- xx. Lung Nodule Forceps, atraumatic, fenestrated, curved jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, Outer Tube with Working Insert–Qty 1 no.
- xxi. Grasping Forceps, Cobra-Jaws, 1 x 2 teeth, straight jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions Outer Tube with Working Insert–Qty 1 no.
- xxii. Grasping Forceps, straight jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, Outer Tube with Working Insert–Qty 1 no.
- xxiii. Parenchymal Forceps, atraumatic, curved jaws, single action jaws, size 5 mm, length 28 cm, for use with Linear Stapler–Qty 1
- xxiv. Dissecting Forceps, insulated, curved jaws, double action jaws, size 5 mm, length 28 cm, with connector pin for unipolar coagulation, consisting of: Insulated Metal Handle with 4 locking positions, Insulated Outer Tube with Working Insert–Qty 1
- xxv. Scissors, insulated, straight jaws, curved scissor-blades, double action jaws, size 5 mm, length 28 cm, with connector pin for unipolar coagulation, consisting of: Insulated Metal Handle with 4 locking positions, Insulated Outer Tube with Working Insert–Qty 1
- xxvi. Scissors, insulated, distally angled outer sheath, curved scissor-blades, scissor blades open horizontally to angulation, double action jaws, size 5 mm, length 28 cm, with connector pin for unipolar coagulation, consisting of: Insulated Metal Handle with 4 locking positions, Insulated Outer Tube with Working Insert–Qty 1
- xxvii. Scissors, insulated, distally angled outer sheath, straight scissor-blades, scissor blades open parallelly to angulation, single action jaws, size 5 mm, length 28 cm, with connector pin for unipolar coagulation, consisting of: Insulated Metal Y-Handle with 4 locking positions, Insulated Outer Tube with Working Insert–Qty 1
- xxviii. Biopsy Forceps, insulated, distally angled outer sheath, single action jaws, size 5 mm, length 28 cm, with connector pin for unipolar coagulation, consisting of: Insulated Metal Y-Handle with 4 locking positions, Insulated Outer Tube with Working Insert–Qty 1
- xxix. Biopsy Forceps, insulated, straight, single action jaws, size 5 mm, length 28-35 cm, with connector pin for unipolar coagulation, consisting of: Insulated Handle, Insulated Outer Tube with Working Insert–Qty 1
- xxx. Surgical Sponge Holder, for atraumatic dissection of tissue layers, size 10 mm, length 30 cm, consisting of: Handle, Outer Sheath, insulated Sponge Holder Insert–Qty 1

- xxxii. Powder Blower with bulb, size 5 mm, working length 30 cm, consisting of: Sheath for Powder Blower, Rubber bulb, Tube and Bottle–Qty 1
- xxxiii. Suction-Coagulation Cannula, with connector pin for unipolar coagulation with handle, size 5 mm, length 28-35 cm–Qty 1
- xxxiiii. Suction-Coagulation Cannula, with connector pin for bipolar coagulation, distally angled sheath, for use with handle, size 5 mm, length 28 cm–Qty 1
- xxxv. Suction and Irrigation Cannula, with lateral holes, distally angled sheath, for use with handle, size 5 mm, length 28 cm–Qty 1
- xxxvi. Dissecting Electrode, L-shaped, with connector pin for unipolar coagulation, distally angled sheath, size 5 mm, length 28 cm–Qty 1
- xxxvii. Palpation Probe and Knot Pusher, distally angled sheath, size 5 mm, length 28 cm –Qty 1
- xxxviii. Needle driver Parrat-Jaw straight handle with ratchet length 33 cm–Qty 1
- xxxix. Assistant Needle driver Flamingo Jaw straight handle length 33 cm–Qty 1

6. Mediastinoscope set

- i. Distending DCI Video Mediastinoscope, length 20 cm, distension in horizontal and radial direction, with connection on holding system via mechanical central clamp or universal clamping jaw, for use with DCI HOPKINS Telescope and DCI camera head –QTY 1 no.
 - ii. DCI Forward-Oblique Telescope 30°, diameter 4 mm, length 14 cm, autoclavable, fiber optic light transmission incorporated, with 90° adaptation to the DCI camera head, for use Distending DCI Video Mediastinoscope- QTY 1 no.
 - iii. Single-Chip Camera Head, Image 1 with 2 free programmable Camera Head buttons , focal length f = 16mm, for use with DCI Endoscopes – QTY 1 no.
 - iv. Fiber Optic Light Cable, 3.5 mm ø, length 320 cm, for use with Endovision DCI Camera Head QTY -1 no.
 - v. Sponge and Dissecting Forceps, length 20 cm QTY 1 no.
 - vi. Sponge and Dissecting Forceps, length 30 cm Qty –1 no.
 - vii. Sponge and Dissecting Forceps, with ratchet, length 20 cm- QTY 1 no.
 - viii. Biopsy Forceps, with suction channel, length 20 cm- QTY 1 no.
 - ix. Biopsy Forceps, with suction channel, length 30 cm- QTY 1 no.
 - x. Biopsy Forceps, with oval jaws, size 8 mm x 16 mm, length 20 cm-QTY 1 no.
 - xi. Biopsy Forceps, with oval jaws, size 8 x 16 mm, length 30 cm- QTY1 no.
 - xii. Scissors, rotating, with connector pin for unipolar coagulation, size 5 mm, length 25 cm, curved, double action jaws, consisting of: Plastic Handle, without ratchet Outer Tube, insulated and Scissors Insert – QTY 1 no.
 - xiii. Aspiration Cannula, with 12 needles, length 20 cm -QTY 1 no.
 - xiv. Aspiration Cannula, with 12 needles, length 30 cm -QTY 1 no.
 - xv. Silicone Tube with lock connector, to connect aspiration glass cannula to suction syringe- QTY1 no.
 - xvi. Silicone Tube with lock connector, to connect aspiration glass cannula to suction syringe- QTY 1 no.
 - xvii. Coagulation and Suction Cannula, Ø 5 mm, curved, insulated, with connector pin for unipolar coagulation, length 20 cm- QTY 1 no.
 - xviii. Coagulation and Suction Cannula, Ø 5 mm, curved, insulated, with connector pin for unipolar coagulation, length 30 cm- QTY 1 no.
7. All Equipment & Instruments should be European CE with 4 digit notified body no. or USFDA approved
8. Demonstration of quoted model should be given if desired.

BOQ for VATS & Mediastinoscopy set with Full HD camera & Recording device		
Sl. No.	Name of Items	Quantity
1	Endoscopic Camera as per technical specifications	1 no.
2	Light Source as per technical specifications	1 no.
3	Full HD Monitor/Screen as per technical specifications	1 no.
4	Full HD Recording System with 19" Monitor, Mobile Cart & Additional Arm as per technical specifications	1 no.
Thoracoscopy instruments Set (As per technical Specification)		
5	i. Rod Lens Telescope 30°, enlarged view, diameter 10 mm, length 31 cm, autoclavable. fiber optic light transmission incorporated	1 no.
6	ii. Rod lens Telescope 30°, enlarged view, diameter 5 mm, length 29 cm, autoclavable	1 no.
7	iii. Rod lens Telescope 0°, with angled eyepiece, diameter 10 mm, length 27 cm with 6 mm instrument channel, autoclavable	1 no.
8	iv. Telescope, 10 mm, length 32 cm, variable direction of view from 0° - 120°, twisting controller to select the desired view of direction, fiber optic light transmission incorporated	1 no.
9	v. Trocar, size 11 mm, autoclavable consisting of: Trocar, with blunt tip, Trocar Cannula, flexible, without valve, length 8.5 cm	2 nos.
10	vi. Plastic cannula autoclavable for use with flexible trocar size 11 mm- package of 5	1 no.
11	vii. Trocar, size 6 mm, autoclavable consisting of: Trocar, with blunt tip, Trocar Cannula, flexible, without valve, length 8.5 cm	2 nos.
12	viii. Plastic cannula autoclavable for use with flexible trocar size 6 mm- package of 5	1 no.
13	ix. Trocar, size 6 mm, consisting of: Trocar with blunt tip, Cannula with thread, length 4 cm	1 no.
14	x. Trocar, size 6 mm, consisting of: Trocar, only with blunt tip, Cannula with thread, length 6 cm	1 no.
15	xi. Trocar, size 11 mm, consisting of: Trocar only, with blunt tip, Cannula with thread, length 6 cm	1 no.
16	xii. Trocar, size 6 mm consisting of: Trocar with blunt tip, Cannula without thread, length 6.5 cm, with insufflation stopcock, Silicon Leaflet Valve, size 6 mm	1 no.
17	xiii. Trocar, size 11 mm consisting of: Trocar with blunt tip, Cannula without thread, length 6.5 cm, with insufflation stopcock, Silicon Leaflet Valve, size 11 mm	1 no.
18	xiv. Trocar, size 13 mm, consisting of: Trocar with blunt tip, Cannula with thread, length 4 cm	1 no.
19	xv. Trocar, size 13 mm, consisting of: Trocar with blunt tip. Cannula with thread, length 6 cm	1 no.
20	xvi. Parenchymal Forceps, atraumatic, straight jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, with ratchet, Outer Tube with Working Insert	1 no.

21	xvii. Parenchymal Forceps, atraumatic, double curved jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, with ratchet, Outer Tube with Working Insert	1 no.
22	xviii. Lung Forceps, atraumatic, fenestrated, curved jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, Outer Tube with Working Insert	1 no.
23	xix. Dissecting and Grasping Forceps, curved jaws, double action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, Outer Tube with Working Insert	1 no.
24	xx. Lung Nodule Forceps, atraumatic, fenestrated, curved jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, Outer Tube with Working Insert	1 no.
25	xxi. Grasping Forceps, Cobra-Jaws, 1 x 2 teeth, straight jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions Outer Tube with Working Insert	1 no.
26	xxii. Grasping Forceps, straight jaws, single action jaws, size 5 mm, length 28 cm, consisting of: Metal Handle with 4 locking positions, Outer Tube with Working Insert	1 no.
27	xxiv. Parenchymal Forceps, atraumatic, curved jaws, single action jaws, size 5 mm, length 28 cm, for use with Linear Stapler	1 no.
28	xxv. Dissecting Forceps, insulated, curved jaws, double action jaws, size 5 mm, length 28 cm, with connector pin for unipolar coagulation, consisting of: Insulated Metal Handle with 4 locking positions, Insulated Outer Tube with Working Insert	1 no.
29	xxvi. Scissors, insulated, straight jaws, curved scissor-blades, double action jaws, size 5 mm, length 28 cm, with connector pin for unipolar coagulation, consisting of: Insulated Metal Handle with 4 locking positions, Insulated Outer Tube with Working Insert	1 no.
30	xxvii. Scissors, insulated, distally angled outer sheath, curved scissor-blades, scissor blades open horizontally to angulation, double action jaws, size 5 mm, length 28 cm, with connector pin for unipolar coagulation, consisting of: Insulated Metal Handle with 4 locking positions, Insulated Outer Tube with Working Insert	1 no.
31	xxviii. Scissors, insulated, distally angled outer sheath, straight scissor-blades, scissor blades open parallelly to angulation, single action jaws, size 5 mm, length 28 cm, with connector pin for unipolar coagulation, consisting of: Insulated Metal Y-Handle with 4 locking positions, Insulated Outer Tube with Working Insert	1 no.
32	xxix. Biopsy Forceps, insulated, distally angled outer sheath, single action jaws, size 5 mm, length 28 cm, with connector pin for unipolar coagulation, consisting of: Insulated Metal Y-Handle with 4 locking positions, Insulated Outer Tube with Working Insert	1 no.
33	xxx. Biopsy Forceps, insulated, straight, single action jaws, size 5 mm, length 28-35 cm, with connector pin for unipolar coagulation, consisting of: Insulated Handle, Insulated Outer Tube with Working Insert	1 no.
34	xxxi. Surgical Sponge Holder, for atraumatic dissection of tissue layers, size 10 mm, length 30 cm, consisting of: Handle, Outer Sheath, insulated Sponge Holder Insert	1 no.

35	xxxii. Powder Blower with bulb, size 5 mm, working length 30 cm, consisting of: Sheath for Powder Blower, Rubber bulb, Tube and Bottle	1 no.
36	xxxiii. Suction-Coagulation Cannula, with connector pin for unipolar coagulation with handle, size 5 mm, length 28-35 cm	1 no.
37	xxxiv. Suction-Coagulation Cannula, with connector pin for bipolar coagulation, distally angled sheath, for use with handle, size 5 mm, length 28 cm	1 no.
38	xxxv. Suction and Irrigation Cannula, with lateral holes, distally angled sheath, for use with handle, size 5 mm, length 28 cm	1 no.
39	xxxvi. Dissecting Electrode, L-shaped, with connector pin for unipolar coagulation, distally angled sheath, size 5 mm, length 28 cm	1 no.
40	xxxvii. Palpation Probe and Knot Pusher, distally angled sheath, size 5 mm, length 28 cm	1 no.
41	xxxviii. Needle driver Parrat-Jaw straight handle with ratchet length 33 cm–Qty 1 Assistant Needle driver Flamingo Jaw straight handle length 33 cm–Qty 1	1 Set
Mediastinoscope set (As per technical specifications)		
42	i. Distending DCI Video Mediastinoscope, length 20 cm, distension in horizontal and radial direction, with connection on holding system via mechanical central clamp or universal clamping jaw, for use with DCI HOPKINS Telescope and DCI camera head	1 no.
43	ii. DCI Forward-Oblique Telescope 30°, diameter 4 mm, length 14 cm, autoclavable, fiber optic light transmission incorporated, with 90° adaptation to the DCI camera head, for use Distending DCI Video Mediastinoscope	1 no.
44	iii. Single-Chip Camera Head, Image 1 with 2 free programmable Camera Head buttons , focal length f = 16mm, for use with DCI Endoscopes	1 no.
45	iv. Fiber Optic Light Cable, 3.5 mm ø, length 320 cm, for use with Endovision DCI Camera Head	1 no.
46	v. Sponge and Dissecting Forceps, length 20 cm	1 no.
47	vi. Sponge and Dissecting Forceps, length 30 cm	1 no.
48	vii. Sponge and Dissecting Forceps, with ratchet, length 20 cm	1 no.
49	viii. Biopsy Forceps, with suction channel, length 20 cm	1 no.
50	ix. Biopsy Forceps, with suction channel, length 30 cm	1 no.
51	x. Biopsy Forceps, with oval jaws, size 8 mm x 16 mm, length 20 cm	1 no.
52	xi. Biopsy Forceps, with oval jaws, size 8 x 16 mm, length 30 cm	1 no.
53	xii. Scissors, rotating, with connector pin for unipolar coagulation, size 5 mm, length 25 cm, curved, double action jaws, consisting of: Plastic Handle, without ratchet Outer Tube, insulated and Scissors Insert	1 no.
54	xiii. Aspiration Cannula, with 12 needles, length 20 cm	1 no.
55	xiv. Aspiration Cannula, with 12 needles, length 30 cm	1 no.
56	xv. Silicone Tube with lock connector, to connect aspiration glass cannula to suction syringe	1 no.

57	xvi. Silicone Tube with lock connector, to connect aspiration glass cannula to suction syringe	1 no.
58	xvii. Coagulation and Suction Cannula, Ø 5 mm, curved, insulated, with connector pin for unipolar coagulation, length 20 cm	1 no.
59	xviii. Coagulation and Suction Cannula, Ø 5 mm, curved, insulated, with connector pin for unipolar coagulation, length 30 cm	1 no.

B. GENERAL POINTS:**1. Warranty:**

- a) The bidders must quote for Five years Comprehensive Warranty as per Conditions of Contract of the bidding document for complete equipment (Including all spares, labour and third party items) and Turnkey Work (if required) from the date of satisfactory installation, commissioning, trial run, handing over and acceptance of the goods by the User Department.
- b) The warranty charges shall not be quoted separately.
- c) All software updates should be provided free of cost during Comprehensive Warranty period.
- d) During the Warranty period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime more than 5%, the warranty period/CAMC period will be extended by double the downtime period. Complaints should be attended properly, maximum within 8 hrs.

2. After Sales Service:

After sales service centre should be available at the city of Institution 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 Bidder/Indian Agent. Undertaking by the Principals in the "Manufacturer Authorisation Form" that the spares for the equipment shall be available for at least 10 years from the date of supply of equipment.

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 User Department.

4. Comprehensive Annual Maintenance Contract (CAMC) of subject equipment:

- a) The cost of Comprehensive Annual Maintenance Contract (CAMC) which shall include preventive maintenance including testing & calibration as per technical/service/ operational manual of the manufacturer, labour and all spares, after satisfactory completion of Warranty period may be quoted for next five years on yearly basis for complete equipment including third party items as per Price Schedule.
- b) The cost of CAMC may be quoted along with GST applicable on the date of Bid Opening.
- c) Cost of CAMC will be added for Ranking/Evaluation purpose on NPB basis.
- d) Before commencement of CAMC period, the suppliers shall furnish a Performance Bank Guarantee for 2.5% of the cost of the equipment (as per Performa given in bidding document) valid till 3 months extra after expiry of entire CAMC period. The Performance Bank Guarantee for CAMC will be applicable in case of equipment cost is more than Rs.10 lakh.
- e) All software updates should be provided free of cost during CAMC. In case of failure by the supplier, the Bank Guarantee of CAMC will be forfeited.

- f) The payment of CAMC will be made on half yearly basis after satisfactory completion of said period duly certified by end User.
- g) During the CAMC period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime more than 5%, the warranty period/CAMC period will be extended by double the downtime period. Complaints should be attended properly, maximum within 8 hrs.

5. Uptime & Downtime Penalty Clause:

- a) The firm should provide uptime guarantee of 95% during warranty period and CAMC period.
- b) During the Warranty period and CAMC period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime more than 5%, the warranty period/CAMC period will be extended by double the downtime period. Complaints should be attended properly, maximum within 8 hrs.

6. Turnkey Work:

Turnkey Work is to be indicated in the Technical Specification wherever required. The Bidder shall examine the existing site where the equipment is to be installed, in consultation with User Department. The Bidders are required to quote separately for the equipment and Turnkey Work as per Price Schedule. The Turnkey Work costs may be quoted in Indian Rupee and the same will be added for Ranking Purpose.

The Turnkey Work should completely comply with AERB requirement, wherever required.

SECTION – VIII
QUALIFICATION CRITERIA

1. The bidders 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 bidding document to quote and enter into a contractual obligation.
2. The bidder should have supplied and installed the following quantity in last Five years from the date of Bid Opening, similar equipment meeting major parameters of technical specification which is functioning satisfactorily:
 - a. One single order covering at least 80% of the tendered quantity.
or
 - b. Two single orders covering at least 50% in each order of the tendered quantity.
or
 - c. Three single orders covering at least 40% in each order of the tendered quantity.
3. In support of 2, the Bidder shall furnish Performance statement in the enclosed Proforma ‘A’.

The Bidder shall furnish Satisfactory Performance Certificate in respect of above, duly translated in English and duly signed alongwith the bid.

4. The Purchaser reserves the right to ask for a free demonstration of the quoted equipment after giving reasonable time to the bidder at a pre-determined place acceptable to the purchaser or at site (in case of non-portable and heavy equipment) for technical acceptability as per the bidding document specifications, before the opening of the Price Bid.

PROFORMA 'A'**PROFORMA FOR PERFORMANCE STATEMENT**

(For the period of last five years)

NIB No./RFx No. : _____

Date of Bid Opening : _____

Name and address of the Bidder : _____

Name and address of the Manufacturer : _____

Order placed by (full address)	Order no. and date ##	Description (Model no.) and quantity of ordered goods.	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 purchaser in addition to forfeiture of the Bid Security.

Name _____

Business Address _____

Signature of Bidder _____

Place: _____

Seal of the Bidder _____

** The documentary proof will be a certificate from the consignee/end user with cross-reference of order no. and date in the certificate duly self-attested by the bidder.

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

SECTION – IX

BID FORM

To
CEO
HLL Infra Tech Services Limited
B-14A, Sector-62
Noida – 201 307

Ref. Your TE No. _____ due for opening on _____

We, the undersigned have examined the above mentioned bidding document, including amendment/corrigendum (*if any*), the receipt of which is hereby confirmed. We now offer to supply and deliver _____ in conformity with your above referred document for the sum as shown in the Price Schedules attached herewith and made part of this bid. If our bid is accepted, we undertake to supply the goods and perform the services as mentioned in the bidding documents, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our bid is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of “General Conditions Contract”, Section - IV read with modification, if any “Special Conditions of Contract”, in Section - V, for due performance of the contract.

We agree to keep our bid valid for acceptance as required in the “General Instruction to Bidders”, read with modification, if any in “Special Instructions to Bidders”, Section – III or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this bid up to the aforesaid period and this bid may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this bid 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 bid you may receive against your above-referred advertised tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Central Govt. Ministries/Departments/Hospitals/Institutes.

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

“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 bid security.”

Name _____

Business Address _____

Place: _____

Signature of Bidder _____

Date: _____
Bidder _____

Seal of the

SECTION - X
PRICE SCHEDULE

(The below formats are for example. However, actual price format is given in the e tender portal for bidding)

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

1	2	3	4	5				6
Item Sr. No./ RFx no.	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Rs.)				Total Price (at Consignee Site) basis (Rs.) 4 x 5(e)
				Ex - factory/ Ex -warehouse /Ex-showroom /Off - the shelf including packing charges (a)	GST (if any) Value (%age) (b)	Inland Transportation, Insurance for a period including 3 months beyond date of delivery, loading/ unloading and Incidental costs till consignee's site (c)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site (d)	

Total Bid price in Rupees: _____ (in figures)
_____ (in words)

Note: -

1. If there is a discrepancy in prices the same will be evaluated as per clause 29 of GIB.
2. The charges for Annual CAMC after warranty shall be quoted separately as per Section-X – Price Schedule C

Name _____

Business Address _____

Place: _____

Signature of Bidder _____

Date: _____

Seal of the Bidder _____

B) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

1	2	3	4	5						6	
				Price per unit (Currency)							Total price on CIP Named Port of Destination + Insurance (local transportation and storage)
Item Sr. No./ RFX no.	Brief Description of Goods	Country of Origin	Qty (Nos.)	FOB price at port of Lading /FCA price at airport (a)	Indian Agency Commission (% of FOB)**	Net FOB	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	4X 5 (e)

** To be paid in Indian Currency (Rs.)

Total Bid price in _____ (currency to be mentioned) _____ (in figures)
_____ (in words)

Note: -

1. If there is a discrepancy in prices the same will be evaluated as per clause 29 of GIB.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section – X – Price Schedule C
3. The Bidder 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. Actual Custom duty applicable on the date of bid opening and 2% C& F charges will be added to the CIP price to arrive at free delivery at consignee site for evaluation purpose.

Indian Agent (Name and Address) : _____

Indian Agency Commission - ___% of FOB

Name _____

Business Address _____

Place: _____

Signature of Bidder _____

Date: _____

Seal of the Bidder _____

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

1	2	3	4					5	6	7
Item Sr. No./ RFx no.	BRIEF DESCRIPTION OF GOODS	QTY (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)	GST (if any) Value [%age]	Total Annual Comprehensive Maintenance Contract Cost (inclusive of GST) for 05 years 3 x (5+6)
			1 st	2 nd	3 rd	4 th	5 th			
			a	b	c	d	e			

* After completion of Warranty period

Total CAMC price in Rupees: _____ (in figures)

_____ (in words)

NOTE:-

1. If there is a discrepancy in prices the same will be evaluated as per clause 29 of GIB.
2. The cost of Comprehensive Annual Maintenance Contract (CAMC) 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 or the period as mentioned in the bidding document on yearly basis for complete equipment and Turnkey (if any).
3. The cost of CAMC may be quoted along with GST applicable on the date of Bid Opening.
4. Cost of CAMC will be added for Ranking/Evaluation purpose based on NPB as stipulated in the bidding document.
5. The payment of CAMC will be made as stipulated in GCC.
6. The uptime warranty will be 95 % on 24 (hrs) X 7 (days) X 365 (days) basis or as stated in Technical Specification of the Bidding document. The stipulations in Technical Specification will supersede above provisions.
7. All software updates should be provided free of cost during CAMC period.
8. The supplier shall keep sufficient stock of spares required during Comprehensive Annual Maintenance Contract (CAMC) 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 Bidder _____

Date: _____

Seal of the Bidder _____

D) PRICE SCHEDULE FOR TURNKEY WORK

Schedule No.	TURNKEY WORK	Turnkey Work price (in Rs.)	GST (if any) Value [%age]	Turnkey Work price (in Rs.) (including GST)

Total turnkey work price in Rupees: _____ (in figures)

_____ (in words)

Note: -

1. The cost of Turnkey Work (Civil/Electrical/Mechanical Engineering work) as per Technical Specification (Section VII) may be quoted on lump sum along with GST applicable on the date of Bid Opening.
2. Cost of Turnkey Work will be added for Ranking/Evaluation purpose.
3. The payment of Turnkey Work will be made as per GCC.

Name _____

Business Address _____

Signature of Bidder _____

Seal of the Bidder _____

Place: _____

Date: _____

SECTION - XI**CHECK LIST**

The bidders should furnish specific answers to all the questions/issues mentioned in the Checklist detailed below:

Name of Bidder: _____

Name of Manufacturer: _____

Sl. No.	Activity	Yes/ No/ NA	Page No. of the Bids submitted	Remarks
1. a.	Have you enclosed Bid Security of required amount for the quoted schedules?			
b.	In case Bid Security is furnished in the form of Bank Guarantee, has it been furnished as per standard format of the bidding document?			
c.	In case Bank Guarantee is furnished, have you kept its validity 45 days beyond the validity of Techno Commercial Bid?			
2.a.	Are you exempted for furnishing bid security being MSE as defined in MSE procurement policy issued by department of MSME.			
b.	If yes, have you enclosed certificate of registration issued by department of MSME.			
c.	Does such certificate clearly mention the quoted item?			
3. a.	Have you enclosed duly filled bid form as per bidding document?			
b.	Have you enclosed Power of Attorney in favour of the signatory?			
4. a.	Have you enclosed clause-by-clause technical compliance statement (in excel format as provided on e-portal) 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 given in the bidding document?			
b.	Have you submitted the documentary proof that goods have been functioning Satisfactorily?			

Sl. No.	Activity	Yes/ No/ NA	Page No. of the Bids submitted	Remarks
c.	Have you submitted latest purchase order copies?			
6.	Have you submitted Manufacturer's Authorization Certificate as per bidding document?			
7.a.	Have you quoted prices of goods, turnkey (if any), CAMC etc. in the Price Schedule as per bidding document?			
b.	If the ATE calls for buy back, have you quoted buy back prices along with applicable GST?			
8.	Have you kept validity of 270 days from the Techno Commercial Bid Opening date as per the bidding document?			
9. a.	In case of Indian Bidder, have you furnished GST No.?			
b.	In case of Foreign Bidder, have you furnished GST No. of your Indian Agent?			
10.	Have you intimated the name and full address of your Banker (s) along with your Account Number, IFSC Code etc.?			
11.	Have you furnished documents establishing your eligibility & qualification criteria as per bidding documents?			

N.B.

- All pages of the Bid should be page numbered and indexed.
- The Bidder may go through the checklist and ensure that all the documents/ confirmations listed above are enclosed in the bid and no column is left blank. If any column is not applicable, it may be filled up as NA.
- It is the responsibility of bidder to go through the bidding document to ensure furnishing all required documents in addition to above, if any.
- Wherever necessary and applicable, the bidders shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.
- In case a bidders furnishes a wrong or evasive answer against any of the question/issues mentioned in the Checklist, its bids will be liable to be ignored.

Name _____

Business Address _____

Place: _____

Signature of Bidder _____

Date: _____

Seal of the Bidder _____

SECTION - XII

BANK GUARANTEE FORM FOR BID SECURITY

Whereas _____ (Name and address of the Bidder)
(Hereinafter called the "Bidders")
Has submitted its Bid dated _____ for the supply of _____
(Hereinafter called the "Bid")
Against the purchaser's ATE No. _____

Know all persons by these presents that we _____ having
our registered office at _____
(Hereinafter called the "Bank")
Are bound unto HLL Infra Tech Services Ltd., Noida (for and on behalf of AIIMS)
(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 Bidder withdraws or amends, impairs or derogates from the bid in any respect within the period of validity of this Bid.
- 2) If the Bidder having been notified of the acceptance of his Bid by the Purchaser during the period of its validity:-
 - a. if the bidder fails or refuses to furnish the performance security for the due performance of the contract or
 - b. if the bidder fails or refuses to accept/execute the contract or
 - c. if it comes to notice at any time, that the information/documents furnished in its Bid are false or incorrect or 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 more the three conditions, specifying the occurred condition(s).

This guarantee will remain in force upto _____ (insert date of additional forty-five days after Bid validity) and any demand in respect thereof should reach the Bank not later than the above date.

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

SECTION – XIII

MANUFACTURER’S AUTHORISATION FORM

The CEO
HLL Infra Tech Services Limited
B-14A Sector-62
Noida, Uttar Pradesh-201307

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 bid*) having factories at _____, hereby authorise Messrs _____ (*name and address of the agent*) to submit a bid, 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 bid 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 bid, 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, CAMC 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 authorized agent and the spares for the equipment shall be available for at least 10 years from the date of supply of equipment.

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 – XIV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/CAMC SECURITY

WHEREAS _____ (Name and address of the supplier) (Hereinafter called “the supplier”)

has undertaken, in pursuance of Purchase Order/ Contract no _____ dated _____ to supply _____ (*insert description of goods and services*) (Hereinafter called “the Contract”).

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized 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 _____ (*insert 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 will remain in force upto _____ (*insert date of additional Ninety days after completion of satisfactorily warranty period in case of Performance Security and additional Ninety days after completion of satisfactorily CAMC period in case of CAMC security*) 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 – XV**CONTRACT FORM - A****CONTRACT FORM FOR SUPPLY, INSTALLATION, COMMISSIONING, HANDING OVER, TRIAL RUN, TRAINING OF OPERATORS & WARRANTY OF GOODS****ALL INDIA INSTITUTE OF MEDICAL SCIENCES***(Insert Name of concerned Centre/Hospital/Department/Section)***ANSARI NAGAR, NEW DELHI-110 029**

Contract No _____ dated _____

To _____

*(insert name of Supplier with address)***This is in continuation to this office's Notification of Award No _____ dated _____**

1. Name & address of the Supplier: _____
2. ATE No of Bidding Documents: _____ and subsequent Amendment No _____, dated _____ (if any), issued by the Purchaser
3. Supplier's Bid No _____ dated _____ and subsequent communication(s) No _____ dated _____ (if any), exchanged between the supplier and the purchaser in connection with this Bidding Document.
4. In addition to this Contract Form, the following documents etc, which are included in the Bidding 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) Bid Form furnished by the supplier;
 - (vii) Price Schedule(s) furnished by the supplier in its Bid;
 - (viii) Manufacturers' Authorisation Form (if applicable);
 - (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 Bidders" of the Bidding 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 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 required: _____
- (v) Destination and despatch instructions: _____
- (vi) Consignee: _____

6. Warranty clause:

7. Payment terms:

(Signature, name and designation of the Purchaser authorised official)
For and on behalf of Director, AIIMS

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 _____
(Insert Name and address of the supplier)

(Seal of the Supplier)

Date: _____

Place: _____

CONTRACT FORM – B**CONTRACT FORM FOR COMPREHENSIVE ANNUAL MAINTENANCE
CONTRACT (CAMC)**

Comprehensive Annual Maintenance Contract No. _____
Dated _____

Between

Director, AIIMS

And

(insert Name & Address of the Supplier)

Reference: Contract/ Purchase Order No _____ dated _____ for supply, installation & commissioning, Training and CAMC of goods & services.

In continuation to the above referred Contract/Purchase Order, the Contract of Comprehensive Annual Maintenance Contract is hereby concluded as under: -

1	2	3	4					5	6
Items Sr. No./ RFx no.	Brief descriptio n of goods	Quantity (Nos.)	CAMC Cost for Each Unit year wise in Rs					GST Value in Rs (___ %)	Total CAMC Cost for 5 Years with GST (3) $X[(4a+4b+4c+4d+4e)$ + (5)]
			1 st	2 nd	3 rd	4 th	5 th		
			a	b	c	d	e		

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

- b) The CAMC 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 CAMC)
- c) The cost of Comprehensive Annual Maintenance Contract (CAMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period as contained in the above referred contract on yearly basis for complete equipment as per contract including Turnkey Work(if any).
- d) There will be 95% uptime warranty during CAMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CAMC period by double the downtime period and other penalty as per contract.
- e) During CAMC 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 3 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 CAMC period.

- g) The Bank Guarantee valid till _____ [(fill the date) 3 months after expiry of entire CAMC 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 XIV of the Bidding Document, along with the signed copy of CAMC within a period of 21 (twenty one) days of start of CAMC failing which the Performance Security (10% of the contract value) submitted shall be en-cashed payable to the Purchaser/Consignee.
- h) If there is any lapse in the performance of the CAMC as per contract, the proceeds Annual CAMC Bank Guarantee shall be forfeited and their bad performance will be considered while awarding future contracts.
- i) Payment terms: The payment of CAMC will be made against the bills raised by the supplier on six monthly basis after satisfactory completion of said period, duly certified by the concerned User Department. The payment will be made in Indian Rupees.

(Signature, name and designation of the Store Officer/ASO of the Purchaser)

(Signature, name and designation of the F&CAO of the Purchaser)
For and on behalf of Director, AIIMS

(Seal of the Purchaser)
Date: _____
Place: _____

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 _____
(Insert Name and address of the supplier)

(Seal of the Supplier)
Date: _____
Place: _____

Note:- The contract will be prepared on Non-judicial Stamp paper(currently of value of Rs. 100).

SECTION – XVI

CONSIGNEE RECEIPT CERTIFICATE

(To be given by consignee's authorized representative)

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

- 1) Contract/Purchase Order No. & date: _____
- 2) Supplier's Name: _____
- 3) Consignee's Name & Address: _____
- 4) Name of the item supplied: _____
- 5) Quantity Supplied: _____
- 6) Date of Receipt by the Consignee: _____
- 7) Signature of Authorized Representative of Consignee with date: _____
- 8) Name and designation of Authorized Representative of Consignee: _____
- 9) Seal of the Consignee: _____

SECTION – XVII

CONSIGNEE ACCEPTANCE CERTIFICATE

(To be given by consignee's authorized representative)

This is to certify that the goods as detailed below have been received in good conditions along with all the standard and special accessories in accordance with the contract. The same has been installed and accepted.

- 1) Contract/Purchase Order No. & date:_____
- 2) Supplier's Name:_____
- 3) Consignee's Name & Address: _____
- 4) Name of the item Supplied :_____
- 5) Quantity Supplied :_____
- 6) Date of Receipt by the Consignee :_____
- 7) Date of Installation/Commissioning and Acceptance of Equipment: _____
- 8) The supplier has fulfilled its contractual obligations satisfactorily

OR

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

- i)
- ii)
- iii)
- iv)
- 9) The amount of recovery on account of failure of the supplier to meet his contractual obligations is_____ (here indicate the amount).
- 10) Signature of Authorized Representative of Consignee with date:_____
- 11) Name and designation of Authorized Representative of Consignee:_____
- 12) Seal of the Consignee:_____