

# **TENDER ENQUIRY DOCUMENT**

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

On behalf of  
**GOVT. OF INDIA**

**MINISTRY OF HEALTH & FAMILY WELFARE**  
**HITES/PCD/PMSSY-III/07/CTVS/17-18**

*Through*



## **HLL INFRA TECH SERVICES LIMITED**

(Subsidiary of HLL Lifecare Ltd., a Govt. of India Enterprise)

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**SECTION I**  
**NOTICE INVITING TENDER (NIT)**

**Tender Enquiry No.: HITES/PCD/PMSSY-III/07/CTVS/17-18****Dated: 08.06.2017**

- (1) Procurement & Consultancy Services Division of **HLL Infra Tech Services Limited (HITES)**, a fully owned subsidiary of HLL Lifecare Ltd. (HLL), for and on behalf of Govt. of India, Ministry of Health & Family Welfare, invites sealed tenders, from eligible and qualified tenderers for supply of Medical Equipment in department of **CTVS** to various Medical Colleges/ Institutes mentioned in this Tender Enquiry Document which are getting upgraded to super-specialities under Pradhan Mantri Swasthya Suraksha Yojna (PMSSY) Phase III:

| Sl. No. | Rfx No.    | Item Description                                      | Qty. | Tender Processing Fee (Rs.) | EMD (Rs.)   |
|---------|------------|---|------|-----------------------------|-------------|
| 1       | 3000002017 | Instrument Set for Cardio-Vascular & Thoracic Surgery | 16   | 5,750                       | 48,00,000   |
| 2       | 3000002018 | IABP (Intra Aortic Balloon Pump)                      | 35   | 5,750                       | 21,00,000   |
| 3       | 3000002019 | Heart lung machine with accessories (Advance Version) | 34   | 5,750                       | 1,02,00,000 |
| 4       | 3000002020 | Electric operated sternum saw system                  | 19   | 1,150                       | 3,04,000    |
| 5       | 3000002021 | Battery operated sternum saw system                   | 19   | 5,750                       | 11,40,000   |
| 6       | 3000002022 | Ultrasonic Surgical Aspirator/Dissceter(CUSA)         | 10   | 3,450                       | 5,60,000    |
| 7       | 3000002023 | ACT Machine   | 29   | 1,150                       | 1,74,000    |
| 8       | 3000002024 | Ultrasonic Cautery                                    | 23   | 5,750                       | 11,50,000   |
| 9       | 3000002025 | Surgical Loupes                                       | 38   | 1,150                       | 1,52,000    |
| 10      | 3000002026 | Extra Corporeal Membrane Oxygenator (ECMO)            | 3    | 1,150                       | 3,60,000    |
| 11      | 3000002027 | Cell Saver  | 19   | 5,750                       | 11,40,000   |
| 12      | 3000002028 | Surgical Xenon head light and light source            | 4    | 575                         | 48,000      |
| 13      | 3000002029 | Surgical LED head light                               | 4    | 575                         | 8,000       |
| 14      | 3000002030 | Vascular Doppler for coronary Graft                   | 18   | 1,150                       | 3,60,000    |
| 15      | 3000002031 | Single Chamber Pacemaker                              | 5    | 575                         | 25,000      |
| 16      | 3000002032 | Double Chamber Pacemaker                              | 19   | 1,150                       | 1,14,000    |
| 17      | 3000002033 | Thoracic Videoscopy System                            | 6    | 3,450                       | 7,20,000    |
| 18      | 3000002034 | Suction Machine                                       | 36   | 575                         | 36,000      |
| 19      | 3000002035 | Colour Doppler Echocardiography System (Mid End)      | 2    | 1,150                       | 3,00,000    |
| 20      | 3000002036 | 4D Colour Doppler Echocardiography System (High End)  | 8    | 5,750                       | 24,00,000   |

- (2) Tender timeline:

| Sl. No. | Description                              | Schedule                 |
|---------|--|--------------------------|
| a.      | Last date for receipt of Pre-bid queries | 17.06.2017, 1800 hrs IST |

| Sl. No. | Description   | Schedule   |
|---------|---|--|
| b.      | Pre-bid meeting date, time  | 20.06.2017, 1100 hrs IST   |
| d.      | Closing date & time for submission of online bids   | 13.07.2017, 1800 hrs IST   |
| c.      | Closing date & time for submission of <b>tender processing fee and EMD in physical form*</b>  | 14.07.2017, 1400 hrs IST   |
| e.      | Time and date of opening of online bids   | 14.07.2017, 1430 hrs IST   |
| f.      | Venue for :-<br><ul style="list-style-type: none"> <li>• Submission of tender processing fee, EMD in physical form.</li> <li>• Tender Opening-Tech Bid</li> </ul> | HLL Infra Tech Services Limited,<br>Procurement & Consultancy Services<br>Division, B-14 A, Sector-62,<br>Noida-201307 |

\* Bidders have to submit Original Bank Instruments for tender processing fee and EMD within the above mentioned date and time

### **SPECIFIC Instructions for e-Tender Participation:-**

- (3) The tenders are invited through the e-tender portal of HLL/HITES (<https://etender.lifecarehll.com/irj/portal>) only.
- (4) The prospective bidders have to register in the e-tender portal for participating in the tender. There is no registration fee. The instruction for registering in the portal along with video tutorial is available in the *Bidder Help Documents* provided in the e-tender portal login screen.
- (5) Bidders should have a valid Class 3 Digital Signature Certificate with signing and encryption keys.
- (6) On completion of the registration process, the bidders will be provided user ID and password within 72 hours (excepting non-working days). In order to submit the bids electronically bidders are required to have a valid Class 3 Digital Signature Certificate (**signing and encryption/ decryption certificates**).
- (7) Bidders can access the portal for viewing/ downloading the tender enquiry document & uploading tender(s) after the receipt of User ID & Password.
- (8) Bidders are requested to go through the *Bidder Help Documents* on e-tender portal before proceeding for bidding.
- (9) **The tenderers shall submit tender processing fee and EMD in physical form at the scheduled time and venue.**
- (10) Tenderer may download the tender enquiry documents from the web site [www.hllhites.com](http://www.hllhites.com) or [www.lifecarehll.com](http://www.lifecarehll.com) or [www.eprocure.gov.in/cppp](http://www.eprocure.gov.in/cppp) or <https://etender.lifecarehll.com/irj/portal>.
- (11) The submission of tender online can only be done thru' <https://etender.lifecarehll.com/irj/portal>.
- (12) All prospective tenderers may attend the Pre Tender meeting. The venue, date and time indicated above.
- (13) Tenderers shall ensure that their tenders, complete in all respects, are submitted online through HLL e-portal (as described above) ONLY. No DEVIATION is acceptable.

**CEO**  
**HLL Infra Tech Services Limited**

**SECTION - II****GENERAL INSTRUCTIONS TO TENDERERS (GIT)****CONTENTS**

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## A. PREAMBLE

### 1. Definitions and Abbreviations

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

#### 1.2. Definitions:

- (i) **“Purchaser”** means Ministry of Health & Family Welfare Govt. of India.
- (ii) **“e-Tender”** means Bids / Quotation / Tender received from a Firm / Tenderer / Bidder online.
- (iii) **“Tenderer”** means Bidder/the Individual or Firm submitting Bids/Quotation/e-Tenders.
- (iv) **“Supplier”** means the individual or the firm supplying the goods and services as incorporated in the contract.
- (v) **“Goods”** means the articles, material, commodities, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, medical equipment, industrial plant etc. which the supplier is required to supply to the purchaser under the contract.
- (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) **“Earnest Money Deposit” (EMD)** means Bid Security/ monetary or financial guarantee to be furnished by a tenderer along with its tender.
- (viii) **“Contract”** means the written agreement entered into between the purchaser and/or consignee and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.
- (ix) **“Performance Security”** means monetary or financial guarantee to be furnished by the successful tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
- (x) **“Consignee”** means the Hospital/Institute/Medical College/ person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of despatch to another person as provided in the Contract then that “another” person is the consignee, also known as ultimate consignee.
- (xi) **“Specification”** 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 to determine conformity.
- (xiii) **“Day”** means calendar day.

#### 1.3 Abbreviations:

- (i) **“TE Document”** means Tender Enquiry Document
- (ii) **“NIT”** means Notice Inviting Tenders.
- (iii) **“GIT”** means General Instructions to Tenderers
- (iv) **“SIT”** means Special Instructions to Tenderers
- (v) **“GCC”** means General Conditions of Contract
- (vi) **“SCC”** means Special Conditions of Contract
- (vii) **“DGS&D”** means Directorate General of Supplies and Disposals
- (viii) **“NSIC”** means National Small Industries Corporation

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

## 2. Introduction

- 2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section – VI – “List of Requirements”, which also indicates, *inter alia*, the required delivery schedule, terms and place of delivery.
- 2.2 This section (Section II - “General Instruction Tenderers”) provides the relevant information as well as instructions to assist the prospective tenderers in preparation and submission of tenders. It also includes the mode and procedure to be adopted by the purchaser for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract.
- 2.3 The tenderers shall also read the Special Instructions to Tenderers (SIT) related to this purchase, as contained in Section III of these documents and follow the same accordingly. Whenever there is a conflict between the GIT and the SIT, the provisions contained in the SIT shall prevail over those in the GIT.
- 2.4 Before formulating the tender and submitting the same to the purchaser, the tenderer should read and examine all the terms, conditions, instructions, etc. contained in the TE documents. Failure to provide and/or comply with the required information, instructions etc. incorporated in these TE documents may result in rejection of its tender.



**3. Availability of Funds**

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

**4. Language of Tender**

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

**5. Eligible Tenderers**

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

**6. Eligible Goods and Services**

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

**7. Tendering Expense**

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

**B. e-TENDER ENQUIRY DOCUMENTS****8. Content of Tender Enquiry Documents**

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

|             |   |
|-------------|---|
| Section II  | – General Instructions to Tenderers (GIT) |
| Section III | – Special Instructions to Tenderers (SIT) |
| Section IV  | – General Conditions of Contract (GCC)    |
| Section V   | – Special Conditions of Contract (SCC)    |
| Section VI  | – List of Requirements                    |
| Section VII | – Technical Specifications                |

|               |   |
|---------------|---|
| Section VIII  | – Quality Control Requirements                              |
| Section IX    | – Qualification Criteria                                    |
| Section X     | – Tender Form   |
| Section XI    | – Price Schedules   |
| Section XII   | – Questionnaire   |
| Section XIII  | – Bank Guarantee Form for EMD                               |
| Section XIV   | – Manufacturer’s Authorisation Form                         |
| Section XV    | – Bank Guarantee Form for Performance Security/CMC Security |
| Section XVI   | – Contract Forms A & B                                      |
| Section XVII  | – Proforma of Consignee Receipt Certificate                 |
| Section XVIII | – Proforma of Final Acceptance Certificate by the consignee |
| Section XIX   | – Consignee List  |

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

## 9. Amendments to TE documents

- 9.1 At any time prior to the deadline for submission of tenders, the purchaser may, for any reason deemed fit by it, modify the TE documents by issuing suitable amendment(s) to it.
- 9.2 Such an amendment will be notified in writing by registered/speed post or by fax/telex/e-mail, to all prospective tenderers, who have received the TE documents and will be binding on them.
- 9.3 In order to provide reasonable time to the prospective tenderers to take necessary action in preparing their tenders as per the amendment, the purchaser may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.

## 10. Clarification of TE documents

- 10.1 A tenderer requiring any clarification or elucidation on any issue of the TE documents may take up the same with the purchaser in writing. in their letter head duly signed and scanned through email to [pcd@hllhites.com](mailto:pcd@hllhites.com) and [bmenoida@hllhites.com](mailto:bmenoida@hllhites.com). The purchaser will respond to such request provided the same is received by the purchaser **within the due date mentioned in the NIT. Any queries/representations received later shall not be taken into cognizance.**

## C. PREPARATION OF e-TENDERS

### 11. Documents comprising the e-Tender

- 11.1 The tender(s) shall only be submitted online as mentioned below:
- 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, EMD, Eligibility Criteria & Technical Specifications viz. Product Specification Sheets/Brochures, OEM Certificate, etc.) has to be attached in the C-folder of e-tendering module. Bidders have to ensure that the documents uploaded in pdf format are legible.
  - Price Bid has to be submitted in the prescribed excel format provided with the tender enquiry.

Note:

- (i) The Tender Processing Fee, in favor of HLL Infra Tech Services Ltd. and EMD are to be submitted in physical form as per Section – I, Notice Inviting Tender of this tender enquiry.
- (ii) 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 Techno-Commercial Bid.

**A) Details of Technical Tender (Un priced Tender)**

**Bidders shall furnish the following information along with technical tender:.**

- i) Techno-Commercial Bid in excel format provided with the tender enquiry
- ii) Earnest money Deposit (EMD) furnished in accordance with GIT clause 19.1 alternatively, documentary evidence as per GIT clause 19.2 for claiming exemption from payment of earnest money.
- iii) Tender Form as per Section X (without indicating any prices).
- iv) Documentary evidence, as necessary in terms of clauses 5 and 17 establishing that the tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.
- v) Tenderer/Agent who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorization **strictly as per the prescribed format (Section - XIV)**.
- vi) Power of Attorney issued by Competent Authority in favour of the person **who is digitally signing/ uploading the tender(s)**.
- vii) Documents and relevant details to establish in accordance with GIT clause 18 that the goods and the allied services to be supplied by the tenderer conform to the requirement of the TE documents.
- viii) Performance Statement as per section IX along with relevant copies of orders and end users' satisfaction certificate.
- ix) Price Schedule(s) as per Section XI filled up with all the details including Make, Model etc. of the goods offered with prices blank (without indicating any prices).
- x) Certificate of Incorporation.
- xi) Self-Attested copies of VAT registration certificate and PAN Card.
- xii) Non conviction /no pending conviction certification issued by Notary on judicial stamp paper for preceding three years.
- xiii) Self-Attested copies of quality certificates i.e. US FDA /CE Certificate issued by competent authority, if applicable.
- xiv) Documentary evidence stating the status of bidder.
- xv) List of procurement agencies of repute to which the tendered product have been supplied during last 12 months.
- xvi) Self-attested copies of annual report, audited balance sheet and profit & loss account for preceding three years from the date of tender opening.
- xvii) Notarized affidavit that tenderer 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.
- xviii) 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).
- xix) **Copies of original product catalogues / data sheet must be enclosed of all quoted items.**

**B) Price Bid:**

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:**

- (i) **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.**
- (ii) It is the responsibility of bidder to go through the TE document to ensure furnishing all required documents in addition to above, if any.
- (iii) 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 A person signing (manually or digitally) the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrant that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages.
- 11.3 A tender, which does not fulfill any of the above requirements and/or give evasive information/reply against any such requirement, shall be liable to be ignored.
- 11.4 Tender sent by fax/telex/cable shall be ignored.

**12. Tender currencies**

- 12.1 The tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees (INR). A tenderer quoting imported goods located within India shall produce documentary evidence of the goods having been imported and already located within India, in case their bid is found to be the lowest one after opening of price bid.
- 12.2 For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Japanese Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only (INR), if such services are to be performed /undertaken in India. Commission for Indian Agent, if any and if payable shall be indicated in the space provided for in the price schedule and will be payable in Indian Rupees only.
- 12.3 Tenders, where prices are quoted in any other currency may not be accepted and are liable to be ignored.

**13 Tender Prices**

- 13.1 The Tenderer shall indicate on the Price Schedule provided under Section XI all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required.
- 13.2 If there is more than one schedule in the List of Requirements, the tenderer has the option to submit its quotation for any one or more schedules. However, while quoting for a schedule, the tenderer shall quote for the complete requirement of goods and services as specified in that particular schedule.
- 13.3 The quoted prices for goods offered from within India and that for goods offered from abroad are to be indicated separately in the applicable Price Schedules attached under Section XI.

- 13.4 While filling up the columns of the Price Schedule, the following aspects should be noted for compliance:
- 13.4.1 For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:
- a) The price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, CST, VAT, CENVAT, Custom Duty, Excise Duty etc. Or GST already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;
  - b) Any sales or other taxes and any duties including excise duty or GST, which will be payable on the goods in India if the contract is awarded;
  - c) Charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage), Loading & Unloading etc. would be borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;
  - d) The price of Incidental Services, as mentioned in List of Requirements and Price Schedule;
  - e) The prices of Site Modification Work (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule.
  - f) The price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.
- 13.4.2 For goods offered from abroad, the prices in the corresponding price schedule shall be entered separately in the following manner:
- a) The price of goods quoted FOB/FCA port of shipment, as indicated in the List of Requirements and Price Schedule;
  - b) Price of goods quoted CIP (name port of destination) in India as indicated in the List of Requirements, Price Schedule and Consignee List
  - c) The charges for Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery. Other local costs and Incidental costs, as specified in the List of Requirements and Price Schedule;
  - d) The charges for Incidental Services, as in the List of Requirements and Price Schedule;
  - e) The prices of Site Modification Work (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
  - f) The price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.
- 13.5 **Additional information and instruction on Duties and Taxes:**
- 13.5.1 If the Tenderer desires to ask for excise duty, sales tax/VAT, Service Tax, Works Contract Tax or GST etc. to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such duties and taxes and no claim for the same will be entertained later.
- 13.5.2 **Excise Duty:**
- a) If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of excise duty will be entertained after the opening of tenders.
  - b) If a Tenderer chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the tenderer must

clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.

- c) Subject to sub clauses 13.5.2 (a) & (b) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

### 13.5.3 **Sales Tax:**

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

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

Normally, goods to be supplied to government departments against government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned government department. Keeping this in view, the supplier shall ensure that the stores to be supplied by the supplier against the contract placed by the purchaser are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the purchaser. The purchaser should issue the certificate to the supplier within 21 days from the date of receipt of request from the supplier.

However, if a local body still insists upon payment of such local duties and taxes, the same should be paid by the supplier to the local body to avoid delay in supplies and possible demurrage charges and obtain a receipt for the same. The supplier should forward the receipt obtained for such payment to the purchaser to enable the purchaser reimburse the supplier and take other necessary action in the matter.

### 13.5.5 **Customs Duty:**

The Purchaser will pay the Customs duty wherever applicable.

- 13.6 For transportation of imported goods offered from abroad, relevant instructions as incorporated under GCC Clause 10 shall be followed.
- 13.7 For insurance of goods to be supplied, relevant instructions as provided under GCC Clause 11 shall be followed.
- 13.8 Unless otherwise specifically indicated in this TE document, the terms FCA, FOB, FAS, CIF, CIP, DDP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris
- 13.9 The need for indication of all such price components by the tenderers, as required in this clause (viz., GIT clause 13) is for the purpose of comparison of the tenders by the purchaser and will not restrict the purchaser's right to award the contract on the selected tenderer on any of the terms offered.

### 13.5.6 **Goods and Services Tax (GST) :**

If a tenderer asks for Goods and Services Tax to be paid extra, the rate and nature of Goods and Services Tax applicable should be shown separately. The Goods and Services Tax will be paid as per the rate at which it is liable to be assessed or has actually been assessed provided the transaction is legally liable to Goods and Services Tax and is payable as per the terms of the contract. If any refund of Tax is received at a later date, the Supplier must return the amount forthwith to the purchaser

## 14. **Indian Agent**

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

- a) As per the Compulsory Enlistment Scheme of the Department of Expenditure, Ministry of Finance, it is compulsory for Indian agents, who desire to quote directly on behalf of their foreign principals, to get themselves enlisted with the Central Purchase Organization (eg. DGS&D).
  - a) The complete name and address of the Indian Agent and its permanent income tax account number as allotted by the Indian Income Tax authority.
  - b) The details of the services to be rendered by the agent for the subject requirement.
  - c) Details of Service outlets in India, nearest to the consignee(s), to render services during Warranty and CMC period.
  - d) A copy of agreement between the Agent & their principal detailing the terms & conditions as well as services and after sales services as above to be rendered by the agent and the precise relationship between them and their mutual interest in the business as laid out in section VII (Technical specifications).
  - e) Principal's/Manufacturer's original Proforma Invoice with the price bid

## 15. **Firm Price**

15.1 Unless otherwise specified in the SIT, prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account. Bidders are requested to quote BOQ wise unit price (**uniform unit prices must be quoted for same BOQ items across India**) and total price.

## 16. **Alternative Tenders**

- 16.1 Alternative Tenders are not permitted.
- 16.2 However the Tenderers can quote alternate models meeting the tender specifications of same manufacturer with single EMD.
- 16.3 If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same tender for the same item/product. In a tender, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same item/product in the same tender.

## 17 **Documents Establishing Tenderer's Eligibility and Qualifications**

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

- 17.2 The documentary evidence needed to establish the tenderer's qualifications shall fulfil the following requirements:
- a) in case the tenderer offers to supply goods, which are manufactured by some other firm, the tenderer has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The tenderer shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XIV in this document.
  - b) the tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.
  - c) in case the tenderer is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.
  - d) in case the tenderer is an Indian agent/authorized representative quoting on behalf of a foreign manufacturer for the **restricted item**, the Indian agent/authorized representative is already enlisted under the Compulsory Enlistment Scheme of Ministry of Finance, Govt. of India, operated through Directorate General of Supplies & Disposals (DGS&D), New Delhi.

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

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

## 19. Earnest Money Deposit (EMD)

- 19.1 Pursuant to GIT clauses 8.1 and 11.1 A (i) the tenderer shall furnish along with its tender, earnest money for amount as shown in the List of Requirements. The earnest money is required to protect the purchaser against the risk of the tenderer's unwarranted conduct as amplified under sub-clause 19.7 below.
- 19.2 The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation, New Delhi for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. Vague stipulations in the Registration Certificate such as "to customers' specification", etc. will not be acceptable for exemption from furnishing of earnest money. In case the tenderer falls in these categories, it should furnish copy of its valid registration details (with DGS&D or NSIC, as the case may be).
- 19.3 The earnest money shall be denominated in Indian Rupees or equivalent currencies as per GIT clause 12.2. The earnest money shall be furnished in one of the following forms:
- i) Account Payee Demand Draft
  - ii) Fixed Deposit Receipt



- iii) Banker's cheque and
- iv) Bank Guarantee

- 19.4 The demand draft or banker's cheque or Fixed Deposit Receipt shall be drawn on any scheduled commercial bank in India or country of the tenderer, in favour of the "**HLL Infra Tech Services Limited**" payable at New Delhi. In case of bank guarantee, the same is to be provided from any scheduled commercial bank in India or country of the tenderer as per the format specified under Section XIII in these documents.
- 19.5 The earnest money shall be valid for a period of forty-five (45) days beyond the validity period of the tender. As validity period of Tender as per Clause 20 of GIT is 120 days, the EMD shall be valid for 165 days from Techno – Commercial Tender opening date.
- 19.6 Unsuccessful tenderers' earnest money will be returned to them without any interest, after expiry of the tender validity period, but not later than thirty days after conclusion of the resultant contract. Successful tenderer's earnest money will be returned without any interest, after receipt of performance security from that tenderer.
- 19.7 Earnest Money is required to protect the purchaser against the risk of the Tenderer's conduct, which would warrant the forfeiture of the EMD. Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The successful tenderer's earnest money will be forfeited without prejudice to other rights of Purchaser if it fails to furnish the required performance security within the specified period.
- 19.8 In the case of Bank Guarantee furnished from banks outside India (i.e. foreign Banks), it should be authenticated and countersigned by any nationalised bank in India by way of back-to-back counter guarantee and the same should be submitted along with the bid.

## **20. Tender Validity**

- 20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of 120 days (One hundred and twenty days) after the date of tender opening prescribed in the TE document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.
- 20.2 In exceptional cases, the tenderers may be requested by the purchaser to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by surface mail or by fax/ telex/cable followed by surface mail. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A tenderer, who may not agree to extend its tender validity after the expiry of the original validity period the EMD furnished by them shall not be forfeited.
- 20.3 In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for the purchaser, the tender validity shall automatically be extended up to the next working day.

## **21. Digital Signing of Tender**

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

## **D. SUBMISSION OF TENDERS**

### **22. Submission of Tenders**

- 22.1 The tender shall be submitted online only.

- (i) Pre-qualification and Technical compliance along with the Techno-Commercial Bid in excel format:
- a) Scanned copies of tender processing fee and EMD
  - b) Manufacturer's authorization in case bid is submitted by an Indian agent (A declaration must be attached here in case directly quoted by a manufacturer or a document establishing the relation of the Indian office with the manufacturer in case quoted by Indian office of the manufacturer).
  - c) Tender Form as per Section X.
  - d) Compliance of all terms and conditions of TED like- warranty, CMC, delivery period, delivery terms, payment terms, Liquidated Damages Clause, Arbitration clause, etc
  - e) Declaration regarding Fall Clause and Deregistration, debarment from any Govt Dept/ Agencies
  - f) Copy of PAN.
  - g) Certificate of Incorporation/ or a Declaration in case the firm is being a proprietary firm.
  - h) Abridged Annual report of last 03 years (Balance sheet and Profit & Loss Account) completed till December 2016, in pdf format.
  - i) Name, address and details of account with respect to bidder and/or beneficiary of L/C.
  - j) Quality Control Requirements as per Section VIII
  - k) Performance statement along with required PO copies and its corresponding end user's satisfactory performance certificate as per section IX.
  - l) Technical Bid along with clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications along with product catalogue and data sheet in the tender enquiry.
  - m) The bidder should submit blank proforma invoice from the foreign manufacturer along with his technical bid, duly mentioning the specifications and code number of the parts quoted.
  - n) The original proforma invoices from the foreign principal will be applicable in case of 100% subsidiary companies incorporated in India also.
  - o) In case the bidder quotes an equipment of a foreign manufacturer and submits the documents as per Clause 22.1 (i) l & m from the subsidiary company of the foreign Original Equipment Manufacturer in India, the bidder must submit the Power of Attorney given to the subsidiary company by the foreign Original Equipment Manufacturer, authorizing it to do business and perform all obligations for and on behalf of the foreign manufacturer company, in India.

(ii) **PRICE BID (ONLY ONLINE):**

- a) The tenderers must ensure that they submit the Price Bid in prescribed format uploaded along with the tender enquiry. It is the responsibility of the bidder to ensure that the contents of the format are not tampered.
- b) The tenderers must ensure that they submit the on-line tenders not later than the closing time and date specified for submission of tenders.
- c) Along with price bid recent purchase order copies for the same model and technical configuration issued by institute of National importance and/or reputed central/state government hospitals should be uploaded in pdf form for reasonability of the offered price.
- d) The bidder should submit the copy of original proforma invoice from the foreign manufacturer along with the price bid.
- e) The supplier shall justify the present quotes based on previous purchase orders for similar project executed either in India or Globally. If they quote any new model or upgraded version of earlier model, they may mention the same in their tender.

22.2 The tenderers must ensure that they submit the on-line tenders within the scheduled closing date & time. They shall also ensure to submit the original Tender Processing Fee and EMD within its scheduled date & time.

**23. Late Tender:**

- 23.1 There is NO PROVISION of uploading late tender beyond stipulated date & time in the e-tendering system. However, if the necessary Tender Processing Fee and EMD in original are not submitted within the scheduled time, the tender shall be declared as late tender and online tender shall not be opened and shall be ignored.

**24. Alteration and Withdrawal of Tender**

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

**E. TENDER OPENING****25. Opening of Tenders**

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

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

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

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

- 25.3 This being a Two - Tender system, the **Techno - Commercial Tenders** are to be opened in the first instance, at the prescribed time and date as indicated in NIT. These Tenders shall be scrutinized and evaluated by the competent committee/ authority with reference to parameters prescribed in the TE document. During the Techno - Commercial Tender opening, the tender opening official(s) will read the salient features of the tenders like brief description of the goods offered, delivery period, Earnest Money Deposit and any other special features of the tenders, as deemed fit by the tender opening official(s). Thereafter, in the second stage, the Price Tenders of only the Techno - Commercially acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation on a date notified after the evaluation of the Techno-Commercial tender.

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

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

**27. Scrutiny of Tenders**

- 27.1 The Purchaser will examine the Tenders to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished and, whether the documents uploaded are in legible form.

- 27.2 The Purchaser's determination of a Tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence
- 27.3 Deleted
- 27.4 The tenders will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the TE document. The tenders, which do not meet the basic requirements, are liable to be treated as non-responsive and will be summarily ignored.
- 27.5 The following are some of the important aspects, for which a tender shall be declared non-responsive during the evaluation and will be ignored;
- (i) Tender validity is shorter than the required period.
  - (ii) Required EMD or its exemption documents have not been provided.
  - (iii) Tenderer has not agreed to give the required performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V – "Special Conditions of Contract", for due performance of the contract.
  - (iv) Poor/ unsatisfactory past performance.
  - (v) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
  - (vi) Tenderer is not eligible as per GIT Clauses 5.1 & 17.1.
  - (vii) Tenderer has not quoted for the entire quantity as specified in the List of Requirements/ BOQ for the quoted schedule.
  - (viii) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry, like delivery terms, delivery schedule, terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.

## **28. Minor Informality/Irregularity/Non-Conformity**

If during the preliminary examination, the purchaser find any minor informality and/or irregularity and/or non-conformity in a tender, the purchaser may waive the same provided it does not constitute any material deviation and financial impact and, also, does not prejudice or affect the ranking order of the tenders. Wherever necessary, the purchaser will convey its observation on such 'minor' issues to the tenderer by registered/speed post etc. asking the tenderer to respond by a specified date. If the tenderer does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that tender will be liable to be ignored.

## **29 Discrepancies in Prices**

- 29.1 If, in the price structure quoted by a tenderer, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless the purchaser feels that the tenderer has made a mistake in placing the decimal point in the unit price, in which case the total price as quoted shall prevail over the unit price and the unit price corrected accordingly.
- 29.2 If there is an error in a total price, which has been worked out through addition and/or subtraction of subtotals, the subtotals shall prevail and the total corrected; and
- 29.3 If there is a discrepancy between the amount expressed in words and figures, the amount in words shall prevail, subject to sub clause 29.1 and 29.2 above.
- 29.4 If, as per the judgement of the purchaser, there is any such arithmetical discrepancy in a tender, the same will be suitably conveyed to the tenderer by registered / speed post. If the tenderer does not agree to the observation of the purchaser, the tender is liable to be ignored.

## **30. Discrepancy between original and copies of Tender**

Not applicable being e-Tender.

### 31. Qualification Criteria

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

31.2 The Purchaser reserves the right to relax the Norms on Prior Experience for Start-ups and Micro & Small Enterprises in Public Procurement.

The Start-ups are defined in Annexure-A of the “Action Plan for Start-ups in India”. The same is available on the website of Department of Industrial policy and Promotion (DIPP), Ministry of Commerce & Industry.

**The Notification is available in the below link:**

[http://www.finmin.nic.in/the\\_ministry/dept\\_expenditure/ppcell/RelaxNorms\\_StartupMedEnterpris\\_e25072016.pdf](http://www.finmin.nic.in/the_ministry/dept_expenditure/ppcell/RelaxNorms_StartupMedEnterpris_e25072016.pdf)

**The FAQs are available in the below link:**

[http://dipp.nic.in/English/Investor/startupindia/FAQs\\_StartupIndia\\_30March2016.pdf](http://dipp.nic.in/English/Investor/startupindia/FAQs_StartupIndia_30March2016.pdf)

**Note:- Definition of Startup (only for the purpose of Government schemes)**

(Ref: Ministry of Finance Office Memorandum No. F.20/2/2014-PPD(Pt.) dated 25<sup>th</sup> July 2016.)

Start-up means an entity, incorporated or registered in India not prior to five years, with annual turnover not exceeding INR 25 crore in any preceding financial year, working towards innovation, development, deployment or commercialization of new products, processes or services driven by technology or intellectual property.

Provided that such entity is not formed by splitting up, or reconstruction, of a business already in existence.

Provided also that an entity shall cease to be a Start-up if its turnover for the previous financial years has exceeded INR 25 crore or it has completed 5 years from the date of incorporation/ registration.

Provided further that a Start-up shall be eligible for tax benefits only after it has obtained certification from the Inter-Ministerial Board, setup for such purpose.

### 32. Conversion of tender currencies to Indian Rupees

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

### 33. Schedule-wise Evaluation

33.1 In case the List of Requirements contains more than one schedule, the responsive tenders will be evaluated and compared separately for each schedule. The tender for a schedule will not be considered if the complete requirements prescribed in that schedule are not included in the tender.

### 34. Comparison of Tenders

34.1 Unless mentioned otherwise in Section – III – Special Instructions to Tenderers and Section – VI –at List of Requirements, the comparison of the responsive tenders shall be carried out on Delivery Duty Paid (DDP) consignee site basis. The quoted Site Modification Work prices and Comprehensive Annual Maintenance charges (CMC) prices will also be added for comparison/ranking purpose for evaluation. **“Net Present value (NPV) of the actual CMC price**

**quoted for the required CMC period after the warranty period shall be considered for bid comparison and the NPV will be calculated after discounting the quoted CMC price by a discounting factor of 10% per annum.”**

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

- 35.1 Further to GIT Clause 34 above, the purchaser’s evaluation of a tender will include and take into account the following:
- i) In the case of goods manufactured in India or goods of foreign origin already located in India, sales tax & other similar taxes and excise duty & other similar duties, Service Tax, Works Contract Tax or GST etc which will be contractually payable (to the tenderer), on the goods if a contract is awarded on the tenderer; and
  - ii) in the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the tenderer) on the goods if the contract is awarded on the tenderer.
- 35.2 The purchaser’s evaluation of tender will also take into account the additional factors, if any, incorporated in SIT in the manner and to the extent indicated therein.
- 35.3 The Purchaser reserves the right to give the price preference to small-scale sectors etc. and purchase preference to central public sector undertakings as per the instruction in vogue while evaluating, comparing and ranking the responsive tenders.
- i. In exercise of powers conferred in Section 11 of the Micro, Small and Medium Enterprises Development (MSMED) Act 2006, the Government has notified a new Public Procurement Policy for Micro & Small Enterprises effective from 1<sup>st</sup> April 2012. The policy mandates that 20% of procurement of annual requirement of goods and services by all Central Ministries / Public Sector Undertakings will be from the micro and small enterprises. The Government has also earmarked a sub-target of 4% procurement of goods & services from MSEs owned by SC/ST entrepreneurs out of above said 20% quantity.
  - ii. In accordance with the above said notification, the participating Micro and Small Enterprises (MSEs) in a tender, quoting price within the band of L 1+15% would also be allowed to supply a portion of the requirement by bringing down their price to the L 1 price, in a situation where L 1 price is from someone other than an MSE. Such MSEs would be allowed to supply up to 20% of the total tendered value. In case there are more than one such eligible MSE, the 20% supply will be shared equally. Out of 20% of the quantity earmarked for supply from MSEs, 4% quantity is earmarked for procurement from MSEs owned by SC/ST entrepreneurs. However, in the event of failure of such MSEs to participate in the tender process or meet the tender requirements and the L 1 price, the 4% quantity earmarked for MSEs owned by SC/ST entrepreneurs will be met from other participating MSEs.
    - iii. The MSEs fulfilling the prescribed eligibility criteria and participating in the tender shall enclose with their tender a copy of their valid registration certificate with District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or any other body specified by Ministry of Micro and Small enterprises in support of their being an MSE, failing which their tender will be liable to be ignored.
    - iv. The Purchaser reserves the right to relax the Norms on Prior Experience for Start-ups and Micro & Small Enterprises in Public Procurement.

The Start-ups are defined in Annexure-A of the “Action Plan for Startups in India”. The same is available on the website of Department of Industrial policy and Promotion (DIPP), Ministry of Commerce & Industry.

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[http://www.finmin.nic.in/the\\_ministry/dept\\_expenditure/ppcell/RelaxNorms\\_StartupMedEnterprise25072016.pdf](http://www.finmin.nic.in/the_ministry/dept_expenditure/ppcell/RelaxNorms_StartupMedEnterprise25072016.pdf)

**The FAQs are available in the below link:**

[http://dipp.nic.in/English/Investor/startupindia/FAQs\\_StartupIndia\\_30March2016.pdf](http://dipp.nic.in/English/Investor/startupindia/FAQs_StartupIndia_30March2016.pdf)

**Note:- Definition of Startup (only for the purpose of Government schemes)**

**(Ref: Ministry of Finance Office Memorandum No. F.20/2/2014-PPD(Pt.) dated 25<sup>th</sup> July 2016.)**

Startup means an entity, incorporated or registered in India not prior to five years, with annual turnover not exceeding INR 25 crore in any preceding financial year, working towards innovation, development, deployment or commercialization of new products, processes or services driven by technology or intellectual property.

Provided that such entity is not formed by splitting up, or reconstruction, of a business already in existence.

Provided also that an entity shall cease to be a Startup if its turnover for the previous financial years has exceeded INR 25 crore or it has completed 5 years from the date of incorporation/ registration.

Provided further that a Startup shall be eligible for tax benefits only after it has obtained certification from the Inter-Ministerial Board, setup for such purpose.

**36. Tenderer's capability to perform the contract**

- 36.1 The purchaser, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the tenderer, whose tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily. If, there is more than one schedule in the List of Requirements, then, such determination will be made separately for each schedule.
- 36.2 The above-mentioned determination will, inter alia, take into account the tenderer's financial, technical and production capabilities for satisfying all the requirements of the purchaser as incorporated in the TE document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the tenderer in its tender as well as such other allied information as deemed appropriate by the purchaser.

**37. Contacting the Purchaser**

- 37.1 From the time of submission of tender to the time of awarding the contract, if a tenderer needs to contact the purchaser for any reason relating to this tender enquiry and / or its tender, it should do so only in writing.
- 37.2 In case a tenderer attempts to influence the purchaser in the purchaser's decision on scrutiny, comparison & evaluation of tenders and awarding the contract, the tender of the tenderer shall be liable for rejection in addition to appropriate administrative actions being taken against that tenderer, as deemed fit by the purchaser.

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## **G. AWARD OF CONTRACT**

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

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

### **39. Award Criteria**

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

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

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

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

### **41. Notification of Award**

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

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

### **42. Issue of Contract**

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

42.2 Within twenty one days from the date of the contract, the successful tenderer shall return the original copy of the contract, duly signed and dated, to the Purchaser/Consignee by registered / speed post. The successful tenderer should also submit Proforma Invoice from the foreign principal (if applicable as per contractual price) within 21 days from the date of NOA.

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



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**43. Non-receipt of Performance Security, Proforma Invoice and Contract by the Purchaser/Consignee**

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

**44. Return of E M D**

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

**45. Publication of Tender Result**

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

**46. Corrupt or Fraudulent Practices**

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

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

- (i) “corrupt practice” means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
- (ii) “fraudulent practice” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;

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

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

**SECTION - III**  
**SPECIAL INSTRUCTIONS TO TENDERERS**  
**(SIT)**

| Sl. No. | GIT Clause No. | Topic                              | SIT Provision | Page No. |
|---------|----------------|------------------------------------|---------------|----------|
| A       | 1 to 7         | Preamble                           | No Change     |          |
| B       | 8 to 10        | TE documents                       | No Change     |          |
| C       | 11 to 21       | Preparation of Tenders             | Change        |          |
| D       | 22 to 24       | Submission of Tenders              | Change        |          |
| E       | 25             | Tender Opening                     | No Change     |          |
| F       | 26 to 37       | Scrutiny and Evaluation of Tenders | No Change     |          |
| G       | 38 to 45       | Award of Contract                  | No Change     |          |

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

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

**e-TENDER ENQUIRY DOCUMENTS**

**NOTE : Wherever Excise duty, Sales Tax/VAT, Service Tax and Works Contract Tax is mentioned in the (Tender Enquiry Document) TED, it may be read as Excise duty/ GST, Sales Tax/VAT/GST, Service Tax/GST and Works Contract Tax/GST if applicable.**

**SUBMISSION OF e-TENDERS**

- (i) All the necessary documents as prescribed in the NIT shall be prepared and scanned in different files (in PDF format as prescribed) and uploaded for on-line submission of Proposal.
- (ii) Except Tender Processing Fee and EMD, all document(s)/ information(s) including the Financial Proposal (i.e. FORMAT FOR SUBMISSION OF FINANCIAL PROPOSAL) should be uploaded **online only** in the prescribed format given in the website. No other mode of submission shall be acceptable.
  - i) 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.
  - ii) 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.
  - iii) The file name of price bid should match the file of the price bid format uploaded by the purchaser in the portal. This can be downloaded from the **Notes & Attachment** under **Details** of item when the event is in **Display Mode**.

**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 TE document. Further, any such disclosure to any such employed person shall be made in confidence and only so far as necessary for the purposes of such performance for this contract.
- 2.2 Further, the supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC sub-clause 2.1 above except for the sole purpose of performing this contract.
- 2.3 Except the contract issued to the supplier, each and every other document mentioned in GCC sub-clause 2.1 above shall remain the property of the purchaser and, if advised by the purchaser, all copies of all such documents shall be returned to the purchaser on completion of the supplier's performance and obligations under this contract.

**3. Patent Rights**

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

**4. Country of Origin**

- 4.1 All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.
- 4.2 The word "origin" incorporated in this clause means the place from where the goods are mined, cultivated, grown, manufactured, produced or processed or from where the services are arranged.
- 4.3 The country of origin may be specified in the Price Schedule

**5. Performance Security**

- 5.1 Within twenty one (21) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum six months plus number of months under warranty from the date of Notification of Award
- 5.2 The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:

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

- 5.3 In the event of any failure /default of the supplier with or without any quantifiable loss to the government including furnishing of consignee wise Bank Guarantee for CMC security as per Proforma in Section XV, the amount of the performance security is liable to be forfeited. The Administration Department may do the needful to cover any failure/default of the supplier with or without any quantifiable loss to the Government.
- 5.4 In the event of any amendment issued to the contract, the supplier shall, within fifteen (15) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
- 5.5 The supplier shall enter into Annual Comprehensive Maintenance Contract as per the 'Contract Form – B' in Section XVI with respective consignees, 3 (three) months prior to the completion of Warranty Period. The CMC will commence from the date of expiry of the Warranty Period.
- 5.6 Subject to GCC sub – clause 5.3 above, the Purchaser/Consignee will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations & after receipt of Consignee wise bank guarantee for CMC security in favour of Head of the Hospital/ Institute/ Medical College of the consignee as per the format in Section XV.

## **6. Technical Specifications and Standards**

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

## **7. Packing and Marking**

- 7.1 The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including 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 and Quality Control Requirements under Sections VII and VIII and in SCC under Section V. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.
- 7.3 Packing instructions:

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

- a. contract number and date
- b. brief description of goods including quantity
- c. packing list reference number
- d. country of origin of goods
- e. consignee's name and full address and
- f. supplier's name and address

## 8. Inspection, Testing and Quality Control

- 8.1 The purchaser and/or its nominated representative(s) will, without any extra cost to the purchaser, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The purchaser shall inform the supplier in advance, in writing, the purchaser's programme for such inspection and, also the identity of the officials to be deputed for this purpose. "The cost towards the transportation, boarding and lodging will be borne by the purchaser and/or its nominated representative(s) for the first visit. In case the goods are rejected in the first instance and the supplier requests for re-inspection, and if same is accepted by purchaser/consignee/PSA/PA, all subsequent inspections shall be at the cost of the supplier. The expense will be to and fro Economy Airfare, Local Conveyance, Boarding and Lodging of the inspection team for the inspection period."
- 8.2 The Technical Specification and Quality Control Requirements incorporated in the contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.
- 8.3 If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, the purchaser's inspector may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet the specifications and standards, as required, free of cost to the purchaser and resubmit the same to the purchaser's inspector for conducting the inspections and tests again.
- 8.4 In case the contract stipulates pre-despatch inspection of the ordered goods at supplier's premises, the supplier shall put up the goods for such inspection to the purchaser's inspector well ahead of the contractual delivery period, so that the purchaser's inspector is able to complete the inspection within the contractual delivery period.
- 8.5 If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the purchaser under the terms & conditions of the contract.
- 8.6 The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.

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

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

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

## 9. Terms of Delivery

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

## 10. Transportation of Goods

10.1 Instructions for transportation of imported goods offered from abroad:

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

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

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

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

## 11. Insurance:

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

- i) in case of supply of domestic goods on Consignee site basis, the supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured for an amount equal to 110% of the value of the goods from ware house to ware house (consignee site) on all risk basis . The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.
- ii) in case of supply of the imported goods on CIP Named port of Destination Basis, the additional extended Insurance (local transportation and storage) would be borne by the Supplier or its Indian Subsidiary/Indian agent from the port of entry to the consignee site for a period including 3 months beyond date of delivery for an amount equal to 110% of the overall expenditure to be incurred by the purchaser from ware house to ware house (consignee site) on all risk basis.

If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will have to be extended by the supplier at their cost till the successful installation,

testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.

## **12. Spare parts**

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

- a) The spare parts as selected by the Purchaser/Consignee to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and
- b) In case the production of the spare parts is discontinued:
  - i) Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and
  - ii) The supplier shall be responsible for undertaking the supply of any such spare part for the proper up keeping of equipment for a period of 10 years including the warranty and CMC periods.

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

## **13. Incidental services**

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

- a. Installation & commissioning, Supervision and Demonstration of the goods
- b. Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
- c. Training of Consignee's Doctors, Staff, operators etc. for operating and maintaining the goods
- d. Supplying required number of operation & maintenance manual for the goods

## **14. DISTRIBUTION OF DISPATCH DOCUMENTS FOR CLEARANCE/RECEIPT OF GOODS**

The supplier shall send all the relevant despatch documents well in time to the Purchaser/Consignee to enable the Purchaser/Consignee clear or receive (as the case may be) the goods in terms of the contract.

Unless otherwise specified in the SCC, the usual documents involved and the drill to be followed in general for this purpose are as follows.

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



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

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Two copies of packing list identifying contents of each package;
- (iii) Certificate of origin for goods of foreign origin;
- (iv) Insurance Certificate as per GCC Clause 11.
- (v) Manufacturers/Supplier's warranty certificate & In-house inspection certificate.

**B) For goods imported from abroad**

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

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

**15. Warranty:**

- 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.
- The warranty shall remain valid for 60 months from the date of installation & commissioning with a regular updates of newer technology as and when evolved followed by a CMC for a period of 5 (Five) Years for all the equipments after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the purchaser/ consignee in terms of the contract, unless specified otherwise in the SCC.
- No conditional warranty will be acceptable.
- Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories and Site Modification work and it will also cover the following wherever applicable:-
  - Any kind of motor.
  - Plastic & Glass Parts against any manufacturing defects.

- All kind of sensors.
  - All kind of coils, probes and transducers.
  - Printers and imagers including laser and thermal printers with all parts.
  - UPS including the replacement of batteries.
  - Air-conditioners
- a. Replacement and repair will be under taken for the defective goods.
    - All kinds of painting, civil, HVAC and electrical work
  - b. Proper marking has to be made for all spares for identification like printing of installation and repair dates.
- 15.3 In case of any claim arising out of this warranty, the Purchaser/Consignee shall promptly notify the same in writing to the supplier. The period of the warranty will be as per G.C.C clause number 15.2 above irrespective of any other period mentioned elsewhere in the bidding documents.
- 15.4 Upon receipt of such notice, the supplier shall, within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/goods thereafter. The penalty clause for non-rectification will be applicable as per tender conditions
- 15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended till the completion of the original warranty period of the main equipment.
- 15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.
- 15.7 During Warranty period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the installation for preventive maintenance of the goods
- 15.8 The Purchaser/Consignee reserve the rights to enter into Annual Comprehensive Maintenance Contract between Consignee and the Supplier for the period as mentioned in Section VII, Technical Specifications after the completion of warranty period.
- 15.9 The supplier along with its Indian Agent and the CMC provider shall ensure continued supply of the spare parts for the machines and equipments supplied by them to the purchaser for 10 years from the date of installation and handing over.
- 15.10 The Supplier along with its Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipments/machines/goods etc. and shall always give the most competitive price for its machines/equipments supplied to the Purchaser/Consignee.

## **16. ASSIGNMENT**

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

## **17. SUB CONTRACTS**

- 17.1 The Supplier shall notify the Purchaser in writing of all sub contracts awarded under the contract if not already specified in its tender. Such notification, in its original tender or later, shall not relieve the Supplier from any of its liability or obligation under the terms and conditions of the contract.
- 17.2 Sub contract shall be only for bought out items and sub-assemblies.
- 17.3 Sub contracts shall also comply with the provisions of GCC Clause 4 ("Country of Origin").

## 18. MODIFICATION OF CONTRACT

- 18.1 If necessary, the purchaser may, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:
- a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser,
  - b) Mode of packing,
  - c) Incidental services to be provided by the supplier
  - d) Mode of despatch,
  - e) Place of delivery, and
  - f) Any other area(s) of the contract, as felt necessary by the purchaser depending on the merits of the case.
- 18.2 In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the supplier to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly. If the supplier doesn't agree to the adjustment made by the Purchaser/Consignee, the supplier shall convey its views to the Purchaser/Consignee within twenty-one days from the date of the supplier's receipt of the Purchaser's/Consignee's amendment / modification of the contract.

## 19. Prices

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

## 20. Taxes and Duties

- 20.1 Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery of the contracted goods to the purchaser.
- 20.2 Further instruction, if any, shall be as provided in the SCC.

## 21. Terms and mode of payment

### 21.1 Payment Terms

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

### **TERMS AND MODE OF PAYMENT**

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

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

##### **a) On delivery:**

Seventy Five percent (75%) payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents subject to recovery of LD, if any:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount

- (ii) Two copies of packing list identifying contents of each package
- (iii) Inspection certificate issued by the nominated Inspection agency, if any
- (iv) Insurance Certificate as per GCC Clause 11
- (v) Certificate of origin for imported goods
- (vi) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee

**b) On Acceptance:**

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

**B) PAYMENT FOR IMPORTED GOODS:**

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

**a) On Shipment:**

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

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

**b) On Acceptance:**

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

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

**d) Payment of Indian Agency Commission:**

Indian Agency commission will be paid to the manufacturer's agent in the local currency for an amount in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation. This is payable against submission of a certificate from the principal supplier that they have realised full and final settlement against their supply.

**C) Payment of Site Modification Work, if any:**

Site Modification Work payment will be made to the bidder/ manufacturer's agent or its Indian Office in Indian rupees as indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation. This will be paid on proof of final installation, commission and acceptance of equipment by the consignee

**D) Payment for Annual Comprehensive Maintenance Contract Charges:**

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

- 21.2 The supplier shall not claim any interest on payments under the contract.
- 21.3 Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time.
- 21.4 Irrevocable & non – transferable LC shall be opened by the Purchaser. However, if the supplier requests specifically to open confirmed LC, the extra charges would be borne by the supplier. If LC is required to be extended and/or amended for reasons not attributable to the purchaser/consignee, the charges thereof shall be borne by the supplier.
- 21.5 The payment shall be made in the currency / currencies authorised in the contract.
- 21.6 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to respective consignees.
- 21.7 While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.
- 21.8 While claiming reimbursement of duties, taxes etc. (like sales tax, excise duty, custom duty or GST ) from the Purchaser/Consignee, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Purchaser/Consignee forthwith.
- 21.9 In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:
- (a) The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
  - (b) Delay in supplies, if any, has been regularized.
  - (c) The contract price where it is subject to variation has been finalized.
  - (d) The supplier furnishes the following undertakings:

“I/We, \_\_\_\_\_ certify that I/We have not received back the Inspection Note duly received by the consignee or any communication from the purchaser or the consignee about non-receipt, shortage or

defects in the goods supplied. I/We \_\_\_\_\_ agree to make good any defect or deficiency that the consignee may report within three months from the date of receipt of this balance payment.

## **22. Delivery**

- 22.1 The supplier shall deliver the goods and perform the services under the contract within the time schedule specified by the Purchaser/Consignee in the List of Requirements and as incorporated in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed not later than the date (s) as specified in the contract.
- 22.2 Subject to the provision under GCC clause 26, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:
- (i) imposition of liquidated damages,
  - (ii) forfeiture of its performance security and
  - (iii) termination of the contract for default.
- 22.3 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/Consignee in writing about the same and its likely duration and make a request to the Purchaser/Consignee for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/Consignee shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.
- 22.4 When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, inter alia contain the following conditions:
- (a) The Purchaser/Consignee shall recover from the supplier, under the provisions of the clause 23 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.
  - (b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or GST on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.
  - (c) But nevertheless, the Purchaser/Consignee shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or GST or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.
- 22.5 The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the Purchaser/Consignee for extension of delivery period and obtain the same before despatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and / or any other expense related to such supply shall lie against the purchaser.
- 22.6.1 Passing of Property:
- 22.6.2 The property in the goods shall not pass to the purchaser unless and until the goods have been delivered to the consignee in accordance with the conditions of the contract.

- 22.6.3 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.
- 22.6.4 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 including opening of office in India as per the undertaking given in the qualification criteria, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods, installation, commissioning and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract as per GCC 24. *Since the Liquidated damages are in virtue of non-performance of services, it will attract Service Tax also which in turn shall be deducted from the bidder.*

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

### **24. Termination for default**

- 24.1 The Purchaser/Consignee, without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee), may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser/Consignee pursuant to GCC sub-clauses 22.3 and 22.4.
- 24.2 In the event of the Purchaser/Consignee terminates the contract in whole or in part, pursuant to GCC sub-clause 24.1 above, the Purchaser/Consignee may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the Purchaser/Consignee for the extra expenditure, if any, incurred by the Purchaser/Consignee for arranging such procurement.
- 24.3 Unless otherwise instructed by the Purchaser/Consignee, the supplier shall continue to perform the contract to the extent not terminated.

### **25. Termination for insolvency**

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

### **26. Force Majeure**

- 26.1 Notwithstanding the provisions contained in GCC clauses 22, 23 and 24, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure.
- 26.2 For purposes of this clause, Force Majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and which is not foreseeable and not brought about

at the instance of , the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees , lockouts excluding by its management, and freight embargoes.

- 26.3 If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- 26.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.
- 26.5 In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

## **27. Termination for convenience**

- 27.1 The Purchaser/Consignee reserves the right to terminate the contract, in whole or in part for its (Purchaser's/Consignee 's) convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Purchaser/Consignee. The notice shall also indicate interalia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.
- 27.2 The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by the Purchaser/Consignee following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser/Consignee may decide:
- a) To get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or
  - b) To cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

## **28. Governing language**

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

## **29. Notices**

- 29.1 Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable or telex or facsimile and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.
- 29.2 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.



### 30. Resolution of disputes

- 30.1 If dispute or difference of any kind shall arise between the Purchaser/Consignee and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.
- 30.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India or amendments thereof. In the case of a dispute or difference arising between the Purchaser/Consignee and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration of an officer in the Ministry of Law and Justice, appointed to be the arbitrator by the Director General (Health Services). The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakhs (Rs. 1,00,000/-)
- 30.3 Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi, India.
- 30.4 Jurisdiction of the court will be from the place where the tender enquiry document has been issued, i.e., New Delhi, India

### 31. Applicable Law

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

### 32. Withholding and Lien in respect of sums claimed

Whenever any claim for payment arises under the contract against the supplier the purchaser shall be entitled to withhold and also have a lien to retain such sum from the security deposit or sum of money arising out of under any other contract made by the supplier with the purchaser, pending finalization or adjudication of any such claim. It is an agreed term of the contract that the sum of money so withheld or retained under the lien referred to above, by the purchaser, will be kept withheld or retained till the claim arising about of or under the contract is determined by the Arbitrator or by the competent court as the case may be, and the supplier will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention.

### 33. General/ Miscellaneous Clauses

- 33.1 Nothing contained in this Contract shall be constructed as establishing or creating between the parties, i.e. the Supplier/its Indian Agent/CMC Provider on the one side and the Purchaser on the other side, a relationship of master and servant or principal and agent.
- 33.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.
- 33.3 The Supplier shall notify the Purchaser/Consignee /the Government of India of any material change would impact on performance of its obligations under this Contract.
- 33.4 Each member/constituent of the Supplier/its Indian Agent/CMC Provider, in case of consortium shall be **jointly and severally liable** to and responsible for all obligations towards the Purchaser/Consignee/Government for performance of contract/services including that of its Associates/Sub Contractors under the Contract.
- 33.5 The Supplier/its Indian Agent/CMC Provider shall at all times, indemnify and keep indemnified the Purchaser/Government of India against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under CMC or the Contract.

- 33.6 The Supplier/its Agent/CMC Provider shall, at all times, indemnify and keep indemnified the Purchaser/Consignee/Government of India against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the supplier/its associate/affiliate etc.
- 33.7 All claims regarding indemnity shall survive the termination or expiry of the contract.
- 33.8 If any provisions of this tender enquiry or a contract formed on the basis of this tender enquiry are invalid or void under any of the existing provisions of Indian law, then such provisions will not affect other provisions of this tender enquiry/ contract.

## **SECTION – V**

### **SPECIAL CONDITIONS OF CONTRACT (SCC)**

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

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

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

**SECTION - VI**  
**LIST OF REQUIREMENTS**

**Part I**

| Sl. No. | Rfx No.    | Item Description                                      | Qty. | Warranty period in years | CMC period in years |
|---------|------------|---|------|--------------------------|---------------------|
| 1       | 3000002017 | Instrument Set for Cardio-Vascular & Thoracic Surgery | 16   | 5                        | 5                   |
| 2       | 3000002018 | IABP (Intra Aortic Balloon Pump)                      | 35   | 5                        | 5                   |
| 3       | 3000002019 | Heart lung machine with accessories (Advance Version) | 34   | 5                        | 5                   |
| 4       | 3000002020 | Electric operated sternum saw system                  | 19   | 5                        | 5                   |
| 5       | 3000002021 | Battery operated sternum saw system                   | 19   | 5                        | 5                   |
| 6       | 3000002022 | Ultrasonic Surgical Aspirator/Dissceter(CUSA)         | 10   | 5                        | 5                   |
| 7       | 3000002023 | ACT Machine   | 29   | 5                        | 5                   |
| 8       | 3000002024 | Ultrasonic Cautery                                    | 23   | 5                        | 5                   |
| 9       | 3000002025 | Surgical Loupes                                       | 38   | 5                        | 5                   |
| 10      | 3000002026 | Extra Corporeal Membrane Oxygenator (ECMO)            | 3    | 5                        | 5                   |
| 11      | 3000002027 | Cell Saver  | 19   | 5                        | 5                   |
| 12      | 3000002028 | Surgical Xenon head light and light source            | 4    | 5                        | 5                   |
| 13      | 3000002029 | Surgical LED head light                               | 4    | 5                        | 5                   |
| 14      | 3000002030 | Vascular Doppler for coronary Graft                   | 18   | 5                        | 5                   |
| 15      | 3000002031 | Single Chamber Pacemaker                              | 5    | 5                        | 5                   |
| 16      | 3000002032 | Double Chamber Pacemaker                              | 19   | 5                        | 5                   |
| 17      | 3000002033 | Thoracic Videoscopy System                            | 6    | 5                        | 5                   |
| 18      | 3000002034 | Suction Machine                                       | 36   | 5                        | 5                   |
| 19      | 3000002035 | Colour Doppler Echocardiography System (Mid End)      | 2    | 5                        | 5                   |
| 20      | 3000002036 | 4D Colour Doppler Echocardiography System (High End)  | 8    | 5                        | 5                   |

**Part II: Required Delivery Schedule:****a) For Indigenous goods or for imported goods if supplied from India:**

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

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

**b) For Imported goods directly from foreign:**

90 days from the date of opening of L/C. The date of delivery will be the date when the consignment reaches the port of destination. (Tenderers may quote the earliest delivery period). Delivery of indigenous goods contracted along with the direct imported items shall be within the scheduled delivery period for imported goods.

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

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

**Note:**

- i) The delivery schedule for different sites may be staggered based on the site readiness.
- ii) Supplier has to submit clear documents for opening of LC to HITES within 21 days of placement of order. Any delay will be treated as non-performance and Liquidated Damages shall be levied.
- iii) In case of multiple LC are opened in favour of multiple manufacturers, the delivery period for all the items under the contract shall be counted from the date of opening of the first LC only.
- iv) Indigenous goods or imported goods if supplied from India (offered in INR) which are linked with supply of directly imported goods, are to be supplied within the contractual delivery period as stated in para b) above.

**Part III: Scope of Incidental Services:**

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

**Part IV:**

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

**Part V:**

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

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

**Part VI:****Required Terms of Delivery and Destination.****a) For Indigenous goods or for imported goods if supplied from India:**

At Consignee Site(s)

**b) For Imported goods directly from abroad:**

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

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

**Destination/Consignee details:**

A list of Consignee is given in Section XXI. The goods mentioned at Part-I in this section are intended to be supplied to the following hospitals/medical institutes. However, order may be placed for any hospital/institute across India.

## Section – VII

### Technical Specifications

#### Item SI No. 01

#### Instrument Set for Cardio-Vascular & Thoracic Surgery

|           |   |
|-----------|---|
| <b>1</b>  | <b>CASTROVIEJO NEEDLE HOLDER</b>  |
|           | MICRO NEEDLE HOLDER Round Handle with ratchet, enhanced needle. Grip surface, DIAMOND DUST regular box lock. Soft pressure spring handle very delicate jaws, all edges carefully rounded in order to avoid damage of even the finest needles and sutures. |
| a)        | Length 180 mm / 7", 1.2 mm x 11 mm straight tip for suture 5-0 and smaller - 2  |
| b)        | Length 180mm / 7", 0.4 mm x 11 mm straight jaw for suture 8-0 and smaller -1  |
| c)        | Length 180mm / 7", 0.8 mm x 11 mm straight jaw for suture 6-0 and smaller -2  |
| d)        | Length 180mm / 7", 0.6 mm x 11 mm straight jaw for suture 7-0 and smaller -1  |
| e)        | Length 210mm / 8 1/4", 0.4 mm x 11 mm straight jaw for suture 8-0 and smaller -1  |
| d)        | Length 210mm / 8 1/4", 0.6 mm x 11 mm straight jaw for suture 7-0 and smaller -1  |
| <b>2</b>  | <b>RYDER NEEDLE HOLDER Intra Cardiac stainless steel TUNGSTEN CARBIDE / DIAMOND DUST, Ring Handle.</b>  |
| a)        | Length 21 cm / 8", Round Tip 1.9 mm jaw – 2   |
| <b>3</b>  | <b>MINI RYDER with round jaw of 1.4 mm, with Titanium tip</b>   |
| a)        | Length 15 cm / 6" – 2 nos.  |
| <b>4</b>  | <b>BOZEMANN FINNOCHIETTO Needle Holder with TC inserts gentle smooth curve at the shaft and curve at the box joint</b>  |
| a)        | Length 24 cm -1   |
| b)        | Length 30cm -1  |
| <b>5</b>  | <b>CRILE – WOOD Needle Holder with box joint</b>  |
| a)        | Length 15 cm / 6" – 3Nos.   |
| <b>6</b>  | <b>MAYO HAGGER Needle Holder</b>  |
| a)        | Length 20 cm / 8" – 3 Nos.  |
| <b>7</b>  | <b>HEAVY BARRY WIRE TWISTER with TC inserts</b>   |
| a)        | Length 20 cm -2 no.   |
| b)        | Length 17cm -2 no.  |
| <b>8</b>  | <b>RUBIO MINI WIRE TWISTER with TC inserts</b>  |
| a)        | Length 13 cm / 5" – 1   |
| <b>9</b>  | <b>Sternal Wire Cutter Pliers</b>   |
| a)        | Length 21 cm – 1  |
| b)        | Length 17.5cm - 2   |
|           | TISSUE FORCEPS  |
| <b>10</b> | <b>RING TIP TITANIUM MICRO TISSUE FORCEP, Sapphire / Enhanced needle grip Surface, round handle ring smooth.</b>  |
| a)        | Length 180mm / 7" – 0.5 x 1 mm – 1 No.  |
| b)        | Length 180mm/ 7" – 0.5 x 1 -1.3 x 2 mm – 1 No.  |
| c)        | Length 210mm - 0.5 x 1 mm – 1No.  |
|           | <b>Delicate Tissue Forceps –</b>  |
| <b>11</b> | <b>DEBAKEY – GERALD – Atraumatic Tissue Forceps Titanium (2 each)</b>   |

|           |   |
|-----------|---|
| a)        | Length 15 cm / 6" Jaw 1.5 mm  |
| b)        | Length 18 cm / 7" Jaw 1.5 mm  |
| c)        | Length 24cm Jaw 1.5mm   |
| <b>12</b> | <b>DE- BAKEY – ADSON, Atraumatic tissue Forceps</b>   |
| a)        | Length 12.5 cm / 4 1/2" Jaw 1.5 mm - 1 No   |
| <b>13</b> | <b>DEBAKEY, angled, Atraumatic tissue Forceps</b>   |
| a)        | Length 19.5 cm / 7 1/2" Jaw 1.5 mm - 2 No   |
| b)        | Length 19.5 cm / 7 1/2" Jaw 2.0 mm - 1 no   |
| <b>14</b> | <b>Dressing forceps Pott-smith with TC</b>  |
| a)        | 23cm -3 No. &   |
| b)        | 18cm- 3Nos.   |
| <b>15</b> | <b>ADSON TC SMOOTH 1 each</b>   |
| a)        | Length 12.0 / 4 1/2"  |
| b)        | Adson TC Standard Length 15.0 cm /6"  |
| <b>16</b> | <b>CASTROVEIJO MICRO SCISSORS,ultra fine nano blade Radialis Round Handle – 1each</b>   |
| a)        | Length 180 mmm/ 7" 45 deg nano blade  |
| b)        | Length 180 mmm/ 7" 60 deg nano blade  |
| c)        | Length 180 mmm/ 7" 90 deg nano blade  |
| d)        | Length 180 mmm/ 7" 125 deg nano blade   |
| <b>17</b> | <b>METZENBAUM SCISSORS , ring handle extra light curve edge ultra edge for ultimate cutting performance .Gold plate sank</b>                |
| a)        | Length 180 mm /7" – 2Nos.   |
| <b>18</b> | <b>METZENBAUM SCISSORS , Straight, ring handle extra light curve edge ultra sharp edge for ultimate cutting performance Gold plate sank</b> |
| a)        | Length 180 mm – 1 No.   |
| b)        | Length 200 mm -1 No.  |
| <b>19</b> | <b>BABY METZENBAUM SCISSORS ring handle extra light curve super cut ultra sharp edge for ultimate cutting peformance GOLD plate sank</b>    |
| a)        | Length 12 cm Str. -1 No.  |
| b)        | Length 12cm CVD – 1No.  |
| <b>20</b> | <b>METZENBAUM FINO TC scissors curved – 1each</b>   |
| a)        | Length 14 cm /5 1/2"  |
| b)        | Length 18 cm /7"  |
| c)        | Length 20 cm /8 "   |
| <b>21</b> | <b>METZENBAUM FINO TC scissors pointed – 1 No.</b>  |
| a)        | Length 18 cm /7 "   |
| <b>22</b> | <b>IRISH SCISSORS straigth</b>  |
| a)        | Length 11.5 cm /4 1/4" – 1No.   |
| <b>23</b> | <b>IRISH SCISSORS Curved</b>  |
| a)        | Length 11.5 cm /4 1/4 - 1 No.   |
| <b>24</b> | <b>HOHENFELLNER Valve cutting scissors – 1each</b>  |
| a)        | Length 21 cm /8 1/4"  |
| b)        | Length 24 cm /9 1/2"  |
| <b>25</b> | <b>NELSON METZENBAUM SCISSORS WITH tc EDGES CURVED – 1 each</b>   |
| a)        | Length 18 cm / 7"   |
| b)        | Length 23 cm /9 "   |
| <b>26</b> | <b>ATRAUMATIC VASCULAR CLAMP COOLEY – BECK vessel clamp – 1each</b>   |
| a)        | Length 15 cm /6"  |



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|--|
| b) Length 15.5 cm /6"  |
| <b>27 COOLEY MULTIPURPOSE CLAMP – 1each</b>  |
| a) Length 14.5 cm /5 ½" ,90 deg  |
| b) Length 16 cm /6 1/4", 60 deg  |
| c) Length 20.5 cm /8"  |
| <b>28 Cooley-Derra ANASTOMOSIS VASCULAR CLAMP – 1each</b>  |
| a) Length 16.5 cm /6 ¼"  |
| b) Length 17 cm /6 ½"  |
| <b>29 COOLEY PEDIATRICS ATRAUMATIC VASCULAR CLAMP</b>  |
| a) Length 14 cm – 1 No.  |
| <b>30 COOLEY ILIAC CLAMP</b>   |
| a) Length 24 cm- 1No.  |
| <b>31 COOLEY AURICULAR APPENDIX CLAMP</b>  |
| a) Length 25 cm – 1No.   |
| <b>32 Debakey TANGENTIAL OCCLUSION CLAMP – 1each</b>   |
| a) Length 197mm – jaw working length -45mm and depth 12mm  |
| b) Length 265 mm – jaw working length -65mm and depth 18mm   |
| <b>33 Debakey Ring handle bulldog clamp – Straight shank with jaw working length 45mm – 2each</b>  |
| a) Straight 130mm  |
| b) Cuvved 130mm  |
| c) Angled 45deg.130mm  |
| d) Angled 45deg 100mm  |
| <b>34 Cooley Aoarta clamp – 1 each</b>   |
| a) 10 ¼" jaw working length – 2 ¼" & depth ¼"  |
| b) 10" jaw working length –3" & depth ¼"   |
| <b>35. Castaneda Neonatal Minature Clamp - 1each</b>   |
| a) length 11cm/ 4 1/4 "  |
| b) Length 12cm/ 4 ½"   |
| <b>36. Debakey morris atraumatic vascular clamp – 1each</b>  |
| a) length 25cm/10"   |
| b) length 26.5cm/10 1/2"   |
| c) length 22cm/8 1/2"  |
| d) length 18cm/7"  |
| <b>37. Tube occluding forceps with safety guard for CPB – 10 each</b>  |
| a) length 15cm/6"  |
| b) length 20cm/8"  |
| <b>38. Aortic vascular punch of sizes – 1 each</b>   |
| a) 4mm   |
| b) 5mm   |
| c) 3.5mm   |
| <b>39. Line organizer for circuit for cardiopulmonary bypass with slots to fit the tubings of size ½" (one slot), 3/8" (two slots), ¼" (four slots) – 2 Nos.</b> |
| <b>40 Cooley atrial retractor rigid – 1each</b>  |
| a) 21.5 cm   |
| b) 23 cm   |
| c) 27 cm   |
| <b>41. IMA retractor (sterna retractor for harvesting internal mammary artery – 1No.</b>   |
| <b>42. Cushing nerve hooks 19cm / 7 ½" – 1No.</b>  |

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|---|
| <b>43. Crile nerve hooks 14.5cm/ 5 ½" – 1 No.</b>   |
| <b>44. Desmarves retractors sizes stainless steel – 1each</b>   |
| a) 13cm/5" width 8mm  |
| b) 13cm/5" width 10mm   |
| c) 13cm/5" width 12mm   |
| d) 13cm/5" width 14mm   |
| <b>45. Epicardial fat retractor for CABG small &amp; medium – 1 each</b>  |
| <b>46. Cooley ligature carriers size, stainless steel 17cm/ 6 ½" – 1No.</b>   |
| <b>47. Debakey adson-suction tubes, stainless steel (dedicate 4mm suction tube for coronary surgery with 5mm basket with 4 sides openings at the distal tip. Tip permanently attaches) – 2 Nos.</b> |
| <b>48. Andrew-pynchon suction tubes stainless steel – distal tip 8mm, shaft 4mmx24cm – 2Nos.</b>  |
| <b>49. Baby-Yankauer suction stainless steel – 8mm distal tip, shaft 5mm with 21cm length – 2Nos.</b>   |
| <b>50. Yankauer suction – distal tip 10mm, shaft 6mm and distal tip is detachable length 29.5cm – 6 Nos.</b>  |
| <b>51. Morse Sternal retractor –double blade</b>  |
| a) Adult – maximum spread 200mm, length – 150mm   |
| b) Pediatric - maximum spread 160mm, length – 120mm   |
| <b>52. Borford Rib &amp; Sternal retractor – single blade with two pairs of detachable blade</b>  |
| 65mm & 45mm blade, maximum spread 190 - 220mm – 1No.  |
| <b>53. Fino-Chietto rib &amp; sternal retractor – 1 no. each</b>  |
| a) Infant- maximum spread 70mm, length – 55mm   |
| b) Children- maximum spread 100mm, length – 75mm  |
| <b>54. Beck's aortic clamp –straight shanks jaw working length 40mm , depth 10mm – 1each</b>  |
| a) 8"   |
| b) 8 1/2"   |
| <b>55. Titanium clip applying forceps – 2each</b>   |
| a) small – 19.5cm (length)  |
| b) Medium – 19.5cm(length)  |
| c) Large – 20.5cm(length)   |
| <b>56. Rumel-belmont tourniquet – 1 No.</b>   |
| <b>57. Debakey's vascular dilator – 1each</b>   |
| a) 0.5mm  |
| b) 1.0mm  |
| c) 1.5 mm   |
| d) 2.0mm  |
| e) 2.5mm  |
| f) 3.0mm  |
| <b>58. Langenbeck's retractors -2 each</b>  |
| a) 10x40mm- 21cm(length)  |
| b) 10x28 mm– 21cm(length)   |
| <b>59. Langenbeck's kocher's retractor 20x30mm, 21cm (length) – 1No.</b>  |
| <b>60. Allison Lungs spatula – 1 each</b>   |
| a) 27cm (length) & 40mm blade   |
| b) 32cm(length) & 65mm blade  |
| c) 26cm (length) & 132mm blade  |
| <b>61. Weitlaners self retaining retractor</b>  |
| a) 16.5cm – 2No.  |
| b) 20cm -2Nos.  |
| c) 16.5cm – 2No. Breakable  |

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| 62. Lambotte rasporatories sharp light curve 10mm tip & 21cm length – 1No.   |
| 63. Doyen’s rasporatories 17cm – 1No.  |
| 64. Leksell bone cutting rongeur light curved handle – 23cm (length) – 1No.  |
| 65. Ruskin-liston bone cutting forceps – 18cm(length) – 1No.   |
| 66. Giertz rib shear 25cm -1 No.   |
| 67. Bailey rib spreader 17cm – 1No.  |
| 68. Tubb’s mitral valve dilator – max. blade opening 45mm, working length – 200mm – 1No.   |
| 69. Bailey aortic valve rongeur – 31mx7.8mm jaw, working length – 4 ½” – 1No.  |
| 70. Mills endarterectomy spatula – 7” with 1.5mm blade – 1No.  |
| 71. Carwford – cooley graft tunneler, light curve, length 18” & internal dia 10mm - 1No.   |
| 72. Diethrich (straight) bull dog clamp 5cm- closing pressure 50g, weight 3g – 2 each  |
| 73. Diethrich (Curved) bull dog clamp 5cm- closing pressure 50g, weight 3g – 2 each  |
| 74. Mixer baby forceps 14cm & 19cm – 1each   |
| 75. Mixer forceps 22cm fully cvd, fine point surgical right angled jaw – 1 No.   |
| 76. Price Thomas brochus clamp 22cm – 1No.   |
| 77. Instrument Tray with silicone/magnetic mat: For careful sterilization and storage of fine and delicate instruments, for example microsurgery instruments & fine hooks. May be sterilized and stored together with the instruments in sterilizing container, autoclavable upto 134 deg C, low weight, simple and secure locking system and stackable – 5 Nos. |
| 78. Instrument Tray with magnetic mat: For careful sterilization and storage of instruments. May be sterilized and stored together with the instruments in sterilizing container, autoclavable upto 134 deg C, low weight, simple and secure locking system and stackable – 5 Nos.   |
| 79. Cardiac tissue stabilizer with enhanced stability and flexibility (disposable with sternal spreader) – 2 No.   |
| a. automatic pod spread for effective visualization of anastomotic site.   |
| b. very secure arm for maximum stabilization   |
| c. Greater flexibility with unlimited positioning options with 360deg movement   |
| d. simple, secure one handed attachment of the clamp to the retractor  |
| e. Dual vacuum tubes for superior tissue capture, whale tail easily tightening facility  |
| f. Head-lock design for toes up position, pod spread and bend  |
| g. Rigid clamp to eliminate rocking  |
| h. Reduced handling profile to improve visibility of surgical site   |
| <b>Note:</b>   |
| CE should be mentioned on each instrument.   |
| Instuments should be of high quality and standard  |
| All instruments should be European CE or USFDA approved. Copy of certificate is to be enclosed with bid.   |
| Manufacturer should ISO certified. Copy of certificate to be enclosed.   |
| Bidder should quote for all the instruments.   |
| i. All instruments should be highly heat and corrosion resistant.  |
| ii. Manufacturer name and part number should be mentioned on each and every instrument   |

**Item SI No. 02****IABP (Intra Aortic Balloon Pump)**

| <b>1</b> | <b>Description of Function</b>   |
|----------|--|
| 1.1      | Intra-aortic balloon pump (IABP) is a mechanical device that is used to decrease myocardial oxygen demand while at the same time increasing cardiac output. By increasing cardiac output it also increases coronary blood flow and therefore myocardial oxygen delivery.   |
| <b>2</b> | <b>Operational Requirements</b>  |
| 2.1      | Microprocessor / microcontroller based system. System should be complete with Display Control system and pneumatic drive unit  |
| <b>3</b> | <b>Technical Specifications</b>  |
| 3.1      | Pneumatics: Drive system: Stepper motor driven bellows Drive gas- Helium (Available with disposable canister or refillable cylinder. Pumping Volume: 0.5 cc-50 cc Counter pulsation rate: 40-200 pulsations per minute   |
| 3.2      | In Automatic Mode: System should be capable of automatically selecting appropriate trigger i.e. ECG or Pressure and also accurately select the inflation and deflation points, in automatic mode. In automatic mode of operation user should be in control of the deflation point. In Automatic mode Advance software should automatically adapt the timings for various rhythms and rate variations, without any user intervention. In Automatic mode it should automatically identify Arrhythmias and adopt R wave deflation mode for better patient support, without any user intervention In Manual mode the system allows user control of most of the pump functions. |
| 3.3      | Should be able to trigger on 7 mm Hg of Pulse pressure when used in Pressure Trigger mode and should be able to automatically adjust   |
| 3.4      | Single key start-up to make it fast, user friendly and easy to use   |
| 3.5      | Should be able to display at least 3 wave forms as ECG, Invasive Pressure and Balloon Pressure wave forms  |
| 3.6      | Large display for brighter and very good visibility from a distance in lighting conditions   |
| 3.7      | On screen indication for Helium level in the cylinder and battery level for timely intervention  |
| 3.8      | ECG inflation marker to indicate inflation period on ECG which can be useful when arterial pressure form is not available.   |
| 3.9      | On screen indication of standby time and should give alarm after 15-30 minutes, to draw user's attention on the system being on standby  |
| 3.10     | Optical Blood leak detect for early indication of blood coming into the balloon lumen due to IABC leak   |
| 3.11     | Should have extensive Help Text available during start-up to make the system easy to use even for new users.   |
| 3.12     | Should give extensive Help messages to correct the alarm conditions that are specific to the alarm condition. This should help the user to overcome the alarm problems immediately and with ease.  |
| 3.13     | Should be capable of removing condensation automatically without user intervention and should be maintenance free.   |

|              |  |            |
|--------------|--|------------|
| 3.14         | Should have Peripheral Vascular Doppler for detecting limb ischemia, which is attached to the main equipment                       |            |
| 3.15         | Should have automatic Altitude correction to make it safer for the use during Air Transport  |            |
| 3.16         | Should have software which allows the user to monitor the IABP from any remote location via a modem                                |            |
| 3.17         | In-built Comprehensive Service Diagnostics to help the technician to locate the fault immediately                                  |            |
| 3.18         | Should have capability to connect on the Hospital network  |            |
| 3.19         | Integrated Printer OR Chart recorder to print the reports.   |            |
| <b>4</b>     | <b>System Configuration Accessories, spares and consumables</b>  |            |
| 4.1          | System as specified-   |            |
| 4.2          | System should be supplied with the following: ECG cable and Refillable Helium cylinder compatible with the IABP system Qty: 3 Nos. |            |
| 4.3          | Intra Aortic Balloon Catheter for Adults, Size: 34cc - Qty: 4 Nos, Size: 40cc - Qty: 6 Nos.  |            |
| 4.4          | Reusable Invasive Blood pressure transducer system with pressure flush device system. Qty: 2 Nos.                                  |            |
| <b>5</b>     | <b>Power Supply</b>  |            |
| 5.1          | Power input to be 220 V AC, 50Hz fitted with Indian plug   |            |
| 5.2          | Should have inbuilt battery backup of minimum 3hrs   |            |
| 5.3          | On line UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up.                                |            |
| <b>7</b>     | <b>Standards, Safety and Training</b>  |            |
| 7.1          | System should be US-FDA/ European CE approved product  |            |
|              |  |            |
| <b>SI No</b> | <b>BOQ</b>   | <b>QTY</b> |
| 1            | IABP System, as specified  | 1 no.      |
| 2            | ECG cable and Refillable Helium cylinder compatible with the IABP system   | 3 no.      |
| 3            | Intra Aortic Balloon Catheter for Adults, Size: 34cc   | 4 no.      |
| 4            | Intra Aortic Balloon Catheter for Adults Size: 40cc  | 6 no.      |
| 5            | Reusable Invasive Blood pressure transducer system with pressure flush device system.  | 2 no.      |

**Item SI No. 03****Heart lung machine with accessories (Advance Version)**

|            |   |
|------------|---|
| <b>1</b>   | <b>Description of function</b>  |
| 1.1        | Heart Lung Machine is an apparatus, through which blood is temporarily diverted, during heart surgery, to oxygenate it and pump it throughout the body, thus maintaining circulation until the heart and lungs are able to return to normal functioning.  |
| <b>2</b>   | <b>Operational requirements</b>   |
| 2.1        | <b>Basic equipment will consist of the following unit</b>   |
|            | 1. 5 Pump Console.  |
|            | 2. Temperature Control Module (Hypo-Hyper thermia unit)   |
|            | 3 Monitors:   |
|            | a. Pressure monitor – arterial and cardioplegia with transducers  |
|            | b. Time – at least three timers   |
|            | c. Temperature Monitor with at least two probes   |
|            | d. Cardioplegia pump should have display of total volume of each infusion along with delivery time.   |
|            | 4 Blender   |
|            | a).Air- Oxygen Blender with hoses and Flow meter  |
|            | b).CO2 Blender  |
|            | 5 Safety Devices –  |
|            | a)Level Sensor  |
|            | b)Ultrasonic air sensor (optional)  |
| 2.2        | <b>Accessories will include</b>   |
|            | 1.Stainless steel line clamps - 10 nos  |
|            | 2.Stainless steel intra cardiac suckers - 4 adult & 4 Pead  |
|            | 3.Remote Control module for Temperature Control Monitor Instrument tray with mounting arm.  |
| <b>3</b>   | <b>Technical Specification</b>  |
| <b>3.1</b> | <b>5- Pump Console</b>  |
|            | 1The unit should have 5 pump console compactly arranged with separate power supply and control modules. Should have easy access connectors for interchanging the pump.  |
|            | 2 Each individual roller pump should be capable of running independently at available voltage.  |
|            | 3 Should have a spill proof base.   |
|            | 4 The unit should be supplied with a Battery backup for at least two pumps, all safety systems and accessories for a minimum of 60 minutes. Switch over from main power to battery backup should be automatic and immediate. The battery unit should be built in to the pump base and it should be recharged automatically when the system is operating with main power supply. |
|            | 5 Individual pump heads should have Harvey Roller pumps with facility for tubing to be used adjustable from ¼” to 5/8” through 3/8” and ½” by easily changeable mechanism.  |
|            | 6 Individual pump heads should have display in digital –The total infusion volume in litres and delivery time, the flow rates in LPM and in RPM   |

|     |   |
|-----|---|
|     | 7 Each Pump should have easy mechanism for occlusion setting for different thickness of tubes available in the market, 1/32" to 3/32".  |
|     | 8 Should have hand crank facility as a critical safety feature hand crank loading should be from top for faster access.   |
|     | 9 The Console should have a compact base mount for the entire pump heads together, with pole and handles.   |
|     | 10 Should have variable, changeable tubing holders in each pump head:1/4", 3/8", 1/2" and 5/8".   |
|     | 11 Should have movable oxygenator holder.   |
|     | 12 Roller pump should have a self diagnostic circuit with provision to detect and display critical alarm conditions. Optional Pulsatile module which can be mounted on any of the blood pump. |
| 3.2 | Should have a venous control module with single pole mast with electronic venous line occluder (Rate to be offered if available).   |
| 3.3 | Should have a monitor mount with adjustable monitoring arm  |
| 3.4 | Instrument tray positionable with long monitoring arm   |
| 3.5 | Lightweight surface table; writing surface  |
| 3.6 | <b>TEMPERATURE CONTROL MODULE:</b>  |
|     | Temperature Control and Monitor system with Cardioplegia Supply and remote temperature display With the following features:   |
|     | 1 Simultaneous delivery of water for arterial and cardioplegia heat exchangers and to thermal blankets to be available from suitable ports.   |
|     | 2 To work with power supply of 220± 20 V 50 Hz.   |
|     | 3 Pressure regulated blanket ports maintaining the temperature of the arterial port.  |
|     | 4 Temperature display range of 0- 50 ° Celsius; remote accuracy of 0.3 ° Celsius and remote temperature display unit module with 3-temperature display.                                       |
|     | 5 Microprocessor based unit to control, cool, rewarm and maintain temperature.  |
|     | 6 Water outlet temperature of heat exchanger and blanket range 0-40° C.   |
|     | 7 Maximum flow performance of oxygenator heat exchanger supply port 15 – 22 LPM for fast cooling; 480mmHg maximum pressure; Blanket 1.5 to 2.5 LPM at zero head.                              |
|     | 8 Built in ice Maker to provide 50 lbs of ice in about 8 hours from 25° C water.  |
|     | 9 Should be capable of providing ice water for cardioplegia independently with variable cooling rate  |
|     | 10 Rewarming facility with venous difference mode settable at 6 to 10 ° C gradients to hold the water bath temperature at higher than the venous blood temperature.                           |
|     | 11 Temperature probe module for the operating ranges of 0-40° C.  |
|     | 12 Temperature probes to fit in standard oxygenators (bubble / membrane)  |
|     | 13 Optional remote control unit should be capable of taking 3 Temp. Probes and display temperature in digital readouts. Alarm limits setting for at least three probes at crucial sites.      |
| 3.7 | <b>Monitors:</b>  |

|              |   |            |
|--------------|---|------------|
|              | PRESSURE MONITOR: Facility to monitor one arterial line pressure and one cardioplegia line pressures (total 2); along with necessary pressure transducers, cardioplegia line pressures (total 2); along with necessary pressure transducers, cables six (2 x 3 = 6) and domes reusable, with accurate digital display and alarm facilities audio and visual. delivery. With stop, reset and start function. |            |
|              | TEMPERATURE: 4 temperature displays for patient monitoring and for cardioplegia monitoring with digital display in Celsius should be available.   |            |
| 3.8          | <b>Air-Oxygen Blender:</b>  |            |
|              | To work at 50-60 PSI for membrane oxygenator with water trap attached with necessary hoses and connections of minimum of 5 meters length.   |            |
| 3.9          | <b>Sevoflurane Vapourizer - 1 no</b>  |            |
| 3.10         | <b>Safety Devices: Safety monitor should have optional capability for computer interface to retrieve perfusion data</b>   |            |
|              | ULTRASONIC AIR SENSOR: Ultra sonic air sensor to detect bubbles to work equally well with crystalloid and blood; should be possible to fit anywhere in the circuit easily.  |            |
|              | <b>LEVEL SENSOR SYSTEM: Ultrasonic transducers to work well with crystalloid and blood with adhesive pads, with alarm settings.</b>   |            |
| 3.11         | <b>Accessories:</b>   |            |
|              | 1 STAINLESS STEEL LINE CLAMPS for cardio pulmonary bypass 12 Nos.   |            |
|              | 2 REMOTE CONTROL MODULE FOR THE TEMPERATURE CONTROL MONITOR Optional remote control unit should be capable of taking 3 Temp. Probes and display temperature in digital readouts. Alarm limits setting for at least three probes at crucial sites.   |            |
|              | 3 Instrument Tray with Mounting Arm   |            |
|              | 4 Two Thermal Blanket.  |            |
|              | 5 ON LINE MEASUREMENT OF PH, PCO2*& HB FOR NEONATAL CARDIAC SURGERY   |            |
| 4            | <b>System Configuration Accessories, spares and consumables</b>   |            |
| 4.1          | Remote Control module for Temperature Control Monitor   |            |
| 4.2          | Machine cover   |            |
| 4.3          | System should be provided with appropriate furniture like adjustable revolving chair for the perfusionist to operate the system. The system should contain all the above accessories in Integrated or as separate accessories.  |            |
| 5            | <b>Power supply</b>   |            |
|              | Suitable online UPS of with voltage regulation and spike protection for 60 minutes back up.   |            |
| 6            | <b>Standards, safety and training</b>   |            |
|              | Should have European CE with 4 digit notifying body no/USFDA Approved; certificate to be provided.  |            |
| <b>Sl No</b> | <b>BOQ</b>  | <b>Qty</b> |
| 1            | Heart Lung machine as specified   | 1 No       |
| 2            | Stainless steel line clamps   | 10 Nos     |
| 3            | Stainless steel intra cardiac suckers (adult & Pead)  | 4 Nos Each |
| 4            | Remote Control module for Temperature Control Monitor   | 1 No       |
| 5            | Instrument Tray with Mounting Arm   | 1 No       |



|   |   |       |
|---|---|-------|
| 6 | Thermal Blanket.  | 2 Nos |
| 7 | ON LINE MEASUREMENT OF PH, PCO2*& HB FOR NEONATAL CARDIAC SURGERY | 1 No  |

**Item SI No 04****Electric Operated Sternum Saw System**

|               |  |            |
|---------------|--|------------|
| 1             | <b>Driving Unit</b><br>Completely enclosed Motor 220V / 5 amp AC/DC with MCB Supported on a Mobile Folding Stand (Stainless Steel tubes & M.S. square bars, with castors). Should include a Foot Control, (Stainless Steel Body) with step-less speed control & ON / OFF switch with fuse. |            |
| 2             | <b>Reciprocating Saw Pistol Grip Hand piece (Autoclavable)</b><br>a.Reciprocating Type Blades<br>b.Weight 850 gms. Approx.<br>c.Set of 30 blades (hardened & tempered high quality stainless steel)  |            |
| 3             | <b>Resternotomy Saw Hand Piece (RD)(Autoclavable)</b><br>A.Oscillating blade type<br>B.Sector type blade.<br>C.Weight approx. 750 gms.<br>D.Should be supplied 20 blades   |            |
| 4             | <b>Flexible Shaft (Autoclavable).</b><br>A.Length 2 mtrs.<br>B.Weight approx. 1000 gms.<br>C.Push-Pull type ends.<br>D.Spring loaded.  |            |
| 5             | Company should be ISO 9001, 13485  |            |
| 6             | Instrument should be European CE / US FDA CERTIFIED  |            |
| <b>S. No.</b> | <b>BOQ</b>   | <b>Qty</b> |
| 1             | Driving Unit   | 1          |
| 2             | Reciprocating Saw Pistol Grip Hand piece (Autoclavable)  | 1          |
| 3             | Resternotomy Saw Hand Piece (RD)(Autoclavable)   | 1          |
| 4             | Flexible Shaft (Autoclavable).   | 2          |
| 5             | Re DO saw blade  | 20         |
| 6             | Reciprocating Type Blades  | 30         |
| 7             | Autoclaving Box for hand pieces and shaft  | 2          |

**Item SI No.05****Battery Operated Sternum Saw System**

|   |   |
|---|---|
| 1 | <p><b>Vertical (Reciprocating) Sternum Saw Hand Piece(Qty-1)</b></p> <p>a.Should have Safe Mode<br/> b.Should have two speed controls with standard and fastmode.<br/> c.Free speed of 1000 to 13000 cycles per minute<br/> d.Weight of handpiece with battery should be not more than 3.0 lbs.<br/> e.Microprocessor controlled Handpiece can be calibrate for the consistence Performance<br/> f.Should have DC brushless motor for low maintenance.<br/> g.No lubrication require for lifetime<br/> h.Should have Pistol grip Handpiece<br/> i.Should have tool less mounting of accessories for all blades or attachments.<br/> j.Saw noise level should not more than 84db<br/> k.Should be autoclavable With different blades<br/> l.should have maximum speed of 13000CPM<br/> m.Should be quoted with Two Sternum Guards</p>  |
| 2 | <p><b>Redo(Oscillating) Sternum Saw (Qty: 1)</b></p> <p>a.Should have two speed controls with standard and fastmode.<br/> b.Freespeed of10000-12000cyclesperminute<br/> c. Microprocessor controlled Hand piece Can be calibrate for the consistence Performance<br/> d.Saw Noise level should not be more than84db<br/> eWeight of handpiece with battery should be not more than3lbs<br/> f.Blade mount should be adjustable to different angles with 360degree rotation<br/> g.Should have too llessmounting of accessories<br/> h.Should have DC brushlessmotor for low maintenance<br/> i.No lubrication require for lifetime<br/> j.Should be autoclavable<br/> k.Should have safe mode<br/> l.Blade arc of excursion should be up to 5degree</p>   |
|   | <p><b>BatteryCharger with 4 batteries (Qty-1):</b></p> <p>a.220-240 volts charger and should have the feature to count the charging cycle for a particular battery,<br/> b.Should have capability to identify the worn out battery<br/> c.Should have to charge four batteries at a time without any module or modification need<br/> d.Should have an indicator to provide batterystatus for charging.<br/> e.Should be able tocheck over autoclaved battery cycles(Number of Time and TotalTime)<br/> f. Should have reconditioning futures for battery for N1cd battery<br/> g.Should be able tocharge different batteries with same charger<br/> h.Li-ionCell chemistry and also compatible with NiMh&amp;NiCd batteries withlow Internal impedance to deliver higher current than other battery type.<br/> i.Should be 9.9volts with capacity of 2.2Ah<br/> j.Weight should be not more than 0.9lbs.<br/> k.Li-ion cell with capacity to produce more torque and non autoclavable with life of 200approximate &amp; average charging cycles<br/> l.Should have a run time of minimum 21minutes<br/> m.Should be autoclavable batteries<br/> n.Noneed of reconditioned with no memory effect<br/> o.Should have Indicator light to inform user of low battery life<br/> p.Should have capability toregulates Voltage Prevents battery energy level from being drained below a safety threshold where cells could potentially be damaged<br/> q.Should have capability to measures and Stores AutoclaveAbuse<br/> r.Should have capability to safety features like Shuts off current tobattery terminals when hand pieceis not</p> |

|               |   |            |
|---------------|---|------------|
|               | connected   |            |
| 4             | <b>4. Sterilization Case (Qyt-2):</b><br>a.Should be accommodate all handpiece,attachment and accessories for autoclave   |            |
| 5             | <b>5. Certification:</b><br>Should have USFDA/ European CE certification and ISO certification  |            |
| 6             | <b>6. Service&amp;Support:</b><br>a.The company must having their service center inIndia and the regional service support<br>b.The company must provide all support in case equipments under warranty or underCMC<br>c.Company has toprovide training & education for equipment handling to all CSSD. BioMedical &OT Staff<br>d.Company must have to do minimum two time preventive maintains in one year with company trained engineer.<br>e.Should quote for various accessories like batteries, Blades, Sternum Guard, battery case etc. which remain effective for next 3 years.<br>f.The company should either quote directly or through its Indian subsidiary.Incase there is no Indian subsidiary,the authorized dealer onlys hould quote the tender and should furnish proper original authorization letter for sales as well as after sales service. |            |
| 7             | <b>7.Should besuppliedwithfollowingbladesfreeofcost</b><br>a.Vertical Reciprocating SternumBlades: 30 Nos<br>b.Redo OscillatingSawBlades: 30 Nos  |            |
| <b>S. No.</b> | <b>BOQ</b>  | <b>Qty</b> |
| 1             | Vertical (Reciprocating) Sternum Saw Hand Piece   | 1          |
| 2             | Redo(Oscillating) Sternum Saw   | 1          |
| 3             | BatteryCharger with 4 batteries   | 1          |
| 4             | Sterilization Case  | 2          |
| 5             | Vertical Reciprocating SternumBlades  | 30         |
| 6             | Redo OscillatingSawBlades   | 30         |

**Item SI No.06****Ultrasonic Surgical Aspirator/Dissceter (CUSA)**

|    |   |
|----|---|
| 1  | Ultrasonic Aspirator / Dissector – It should be able to deliver precise fragmentation irrigation & aspiration in the single hand piece. |
| 2  | The hand piece should work on Piezo Ceramic Technology.   |
| 3  | The system should have wide range of variety of hand pieces for different applications.   |
| 4  | The system should have at least three different range of working frequency hand pieces. (25, 35, 55 kHz)                                |
| 5  | The system should have facility for both types of hand pieces (inside irrigation and outside irrigation)                                |
| 6  | The handpiece should be provided with multiple tips (both curved and straight) for aspiration.  |
| 7  | The hand piece and its cables should be autoclavable  |
| 8  | The system should have facility to recognize the hand piece frequency automatically.  |
| 9  | The system should be with different alarms to indicate malfunction, overload etc.   |
| 10 | The system should have irrigation range of 0 to 150 ml / min.   |
| 11 | The system should have Aspiration / Vacuum range of 0 to 0.9 bar.   |
| 12 | Output Power - 100 watt   |

|    |  |
|----|--|
| 13 | Power source - 230 AC +/-10% / 50 Hz. +/-5%  |
| 14 | Trolley for the machine is to be provided.   |
| 15 | Should Have European CE with 4 digit notifying body no/ USFDA Approved certificate to be provided. |

### **Item SI No 07**

#### **ACT Machine**

|          |  |
|----------|--|
| <b>1</b> | <b>Description of Function</b>   |
| 1.1      | Activated Clotting Time (ACT) is a measure of the anticoagulation effects of heparin. The main use of this diagnostic test is in cardiac catheterization labs and open heart and vascular surgery, where they need to keep track and have specific measures of clotting times. |
| <b>2</b> | <b>Operational Requirements</b>  |
| 2.1      | One button operation, easy to use  |
| 2.2      | Portable system  |
| <b>3</b> | <b>Technical Specifications</b>  |
| 3.1      | ACT machine having at least two test well  |
| 3.2      | 2 point clot detection facility to get accurate results  |
| 3.3      | Parameters- ACT (Mandatory) APTT & PT (Optional).  |
| 3.4      | Shall use fresh blood at the bedside.  |
| 3.5      | Shall require less than 3 cc of blood per sample   |
| 3.6      | Digital Display on Screen of any size.   |
| <b>4</b> | <b>System Configuration Accessories, spares and consumables</b>  |
| 4.1      | System as specified-   |
| 4.2      | ACT Tubes - 200 nos  |
| <b>5</b> | <b>Environmental factors</b>   |
| 5.1      | The unit shall be capable of being stored continuously in ambient temperature of 0 -50° C and relative humidity of 15-90%  |
| 5.2      | The unit shall be capable of operating in ambient temperature of 20-30° C and relative humidity of less than 70%   |
| <b>6</b> | <b>Power Supply</b>  |
| 6.1      | Should work on 180-270V AC as well as batteries. Mains adaptor to be supplied  |
| <b>7</b> | <b>Standards. Safety and Training</b>  |
| 7.1      | Should have European CE with 4 digit notifying body no./ USFDA Approved certificate to be provided.  |
| 7.2      | Manufacturer/Supplier should have ISO certification  |
| <b>8</b> | <b>Documentation</b>   |
| 8.1      | User/Technical/Maintenance manuals to be supplied in English.  |
| 8.2      | Certificate of calibration and inspection.   |
| 8.3      | Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.  |
|          |  |

| SI no | BOQ                      | Qty     |
|-------|--------------------------|---------|
| 1     | ACT Machine as specified | 1 No.   |
| 3     | ACT Tubes                | 200 nos |

**Item SI No 08**

**Ultrasonic cutting & Coagulation system**

| 1     | It should have ultrasonic generator capable of incising tissue and providing haemostasis with minimal injury. |       |
|-------|---|-------|
| 2     | It should be functional for both open and endoscopic surgery.   |       |
| 3     | It should have both 5mm and 10mm instruments.   |       |
| 4     | It should have power level display.   |       |
| 5     | The system should operate in two modes-variable mode and full mode.   |       |
| 6     | It should have vibration range of 50-100 $\mu$ m.   |       |
| 7     | It should have 230 watt max. output.  |       |
| 8     | The system should have an auto switch- off mechanism.   |       |
| 9     | There should be a standby mode for better safety.   |       |
| 10    | There should be an audible indicator with adjustable volume for active probe.                                 |       |
| 11    | It should have warning system for worn out probes or broken cable or improper connections.                    |       |
| 12    | Necessary accessories required for cardiac procedures are to be provided.                                     |       |
| 13    | Should have power entry filters to suppress electromagnetic disturbances to other monitors.                   |       |
| 14    | It should be supplied with cart, footswitch, cable transducer and one extra probe.                            |       |
| 15    | Should have European CE With 4 digit notifying body No./USFDA Approved; certificate to be provided.           |       |
| SI.No | BOQ   | Qty   |
| 1     | Ultrasonic cutting & Coagulation system   | 1 Nos |
| 2     | Open Surgery handpiece 5mm (with transducer )   | 1 Nos |
| 3     | Open Surgery handpiece 10mm (with transducer )  | 1 Nos |
| 4     | Endosurgery Hand piece 5mm (with transducer )   | 1 Nos |
| 5     | Endosurgery Hand piece 10mm (with transducer )  | 1 Nos |
| 6     | Transducer for hand piece   | 4 Nos |

**Item SI No 09****Surgical Loupes**

|    |  |
|----|--|
| 1  | The telescope should be customized designed to meet the inter pupillary distance of individual surgeon according to their working distance and pupil height and vertex distance. |
| 2  | Should have reduced weight and increased field size  |
| 3  | Magnification of 3.5-4.5X with field of view and depth should be around 100mm calibrated at individual working distance of surgeon   |
| 4  | Light weight frame in Titanium, weighing not more than 90 gms.   |
| 5  | Telescope should be light and small with clear and Bright Vision.  |
| 6  | Telescope to be of Keplerian Type with a prism contained internally in the magnifier offering high resolution  |
| 7  | The telescope manufacturer to have the facility to modify operating parameters as and when required by the surgeons.   |
| 8  | Supplied with accessories like side splash protectors, cloth for cleaning, screw with keychain, box for loupe.   |
| 9  | Should include at least one chance of re-customization after successful installation during CMC period   |
| 10 | Should be manufactured by a well-known international firm with European CE or USFDA certification  |
| 11 | Cost of customization (after CMC) and other accessories should be quoted separately.   |

**Item SI No. 10****Extra Corporeal Membrane Oxygenator(ECMO)**

|                  |   |
|------------------|---|
| 1                | It should be small, compact, light in weight, movable with big lockable castor wheels.                            |
| 2                | Machine should have:  |
|                  | A. Console  |
|                  | B. Centrifugal Pump   |
|                  | C. Oxygenator   |
|                  | D. Heating Unit   |
| 3                | Detailed specification for each component:  |
| <b>A &amp; B</b> | <b>Console with Centrifugal Pump:</b>   |
| 1                | It should have integrated bubble sensor & a separate level sensor to monitor level.                               |
| 2                | It should be supplied with an Emergency Hand Crank.   |
| 3                | Should have an adjustable arm assembly to hold its Drive Unit & also it should be able to fix it in any position. |
| 4                | Should have battery back up for minimum 1.5 hours.  |
| 5                | Should have RPM speed 0-5000 rpm.   |
| 6                | Should have Flow Rate 0-9.99 liters per minute.   |
| 7                | It should have a warning Alert to the Operator that he has taken necessary clamp/valve to prevent back flow.      |
| 8                | Should be possible to set higher & lower limit for RPM along with low limit setting for LPM.                      |
| 9                | It should have an integrated flow measuring sensor.   |
| 10               | In case of any error message, an acoustic alarm must be sound.  |
| <b>C</b>         | <b>Oxygenator:</b>  |
| 1                | Certified for continuous use for more than 14 days CE Mark /US FDA Certified                                      |
| <b>D</b>         | <b>Heating Unit:</b>  |

|           |  |            |
|-----------|--|------------|
| 1         | Temperature setting range of water temperature should be 30 to 39 degree Centigrade with increments of 0.1 deg centigrade. |            |
| 2         | Should have digital display for set & outlet temperature & should be capable of showing alarm indications.                 |            |
| 3         | Water reservoir capacity should not be more than 2 liter.  |            |
| E         | <b>IN LINE MEASUREMENT module OF PH, PCO2, PO2, electrolytes, lactate , HB and other calculated values</b>                 |            |
| F         | <b>Miscellaneous:</b>  |            |
| 1         | Should have an advanced cart design maximizing safety and convenience to move the complete unit anywhere.                  |            |
| 2         | Should have a standard I.V. pole and provision for a second one.   |            |
| 3         | Should have a convenient oxygen cylinder storage facility.   |            |
| 4         | Sechrist Gas Blender should be supplied with the unit  |            |
| 5         | Should be european CE / US FDA certified.  |            |
| 5         | Following ECMO Consumables to be supplied (2 each) and per unit price to be quoted:  |            |
|           | a. Oxygenator  |            |
|           | b. Tubing-anti-thrombotic coated   |            |
|           | c. Pump-head   |            |
|           | d. Heat exchanger  |            |
|           | e. Catridge for inline ABG module  |            |
|           | f. Any other accessories to make the system functional fully   |            |
| <b>SN</b> | <b>BOQ</b>   | <b>Qty</b> |
| 1         | ECMO machine as specified  | 1 No       |
| 2         | ABG Machine  | 1 No       |
| 3         | Oxygenator   | 2 Nos      |
| 4         | Tubing-anti-thrombotic coated  | 2 Nos      |
| 5         | Pump-head  | 2 Nos      |
| 6         | Heat exchanger   | 2 Nos      |
| 7         | Catridge for inline ABG module   | 2 Nos      |

**Item SI No.11****Cell Saver**

|   |   |
|---|---|
| 1 | System should be capable of processing blood collected from a surgical site to produce washed red blood cell to return to patient later on                            |
| 2 | System should work on centrifuge principle and should operate on 0- 6000 rpm with variable speed wash.  |
| 3 | System should have a smaller foot print with big lockable castor wheel and weight should be less than 100 Kg (inclusive of accessories and cart) for ease of mobility |
| 4 | System should be fully automated with single button operation with self start capability and absolutely minimal user intervention.                                    |
| 5 | The system has an in-built and regulated vacuum suction   |
| 6 | Centrifugal bowl/chamber capacity should be 125-150ml with two stage filling cycle  |
| 7 | The system has variable speed pulse wash cycle.   |
| 8 | System should be approved by US FDA/European CE certified for autologous blood transfusion.   |
| 9 | Three Suction options, on board 1. volume based , 2.regulated on board suction, 3.and post-op suction.  |

|    |  |
|----|--|
| 10 | Should be able to continue the procedure and maintain data even in case of power failure.  |
| 11 | A built in barcode reader to record disposable set, solutions and operator / patients information  |
| 12 | The ability to download data using a USB flash drive.  |
| 13 | A color touch/Soft key screen display.   |
| 14 | The noise level of the device should be < 70 db.   |
| 15 | Device should have effluent line sensor, reservoir level sensor and automatic bowl/Chamber identification program.   |
| 16 | RBC recovery should be more than 90%.  |
| 17 | The device should have post-operative mode to work even after surgery by collecting the blood from the disposable tubing placed in the wound.  |
| 18 | Completely automated postoperative operation.  |
| 19 | The device generates the suction in the reservoir.   |
| 20 | The device begins the processing cycles when an appropriate amount of blood solution collects in the reservoir   |
| 21 | <p>System specification:</p> <p>i. Electrical Specification: Class I, type B, Ordinary, Continuous operation</p> <p>ii. Power-</p> <p>a. Should be able continue the procedure and able to maintain data in case of power failure.</p> <p>b. Voltage: 110/120 or 220/240 V.</p> <p>c. Cycles : 50-60 Hz.</p> <p>d. Phase- Single</p> <p>e. Current- 11.6/0.8 amps ( depending upon voltage selection)</p> <p>f. Fuses- 4AT/240V</p>        |
|    | <p>g. Power cord: 2 wire ground (earth) connection, 3 prong hospital grade .</p> <p>iii. Speed and flow rate specifications-</p> <p>a. Centrifuge- 0-10,000 rpm.</p> <p>b. Pump- 0-600 ml/min (+/-5%)</p> <p>iv. Vacuum- 200-280 mbar</p> <p>v. Temperature Limit</p> <p>a. Operational: 10-300</p> <p>b. Storage: 5-300</p> <p>vi. Humidity Range</p> <p>a. Operational 10-95% non-condensing</p> <p>b. Storage 10-95% non condensing</p> |
| 22 | Should be supplied with 10 sets of consumable accessories in addition to the offered disposable accessories by Supplier along with the one pack of machine.  |
| 23 | Offered, all inclusive accessories in one pack of machine should be specified and highlighted.   |
| 24 | Rates of consumable items should be quoted separately and the company would undertake to supply at the same price for two years, the same would be included in calculation of financial bid.   |
|    | <b>BOQ</b>   |
|    | <b>Qty</b>   |
| 1  | System as specified  |
| 2  | Consumable accessories   |
|    | 1  |
|    | 10 sets  |



**Item SI No.12****Surgical Xenon head light and light source**

|   |  |
|---|--|
| 1 | Surgical Xenon head light with light source on professional head band, headlight Universal Floor stand with 9ft (275cm) premium bifurcated cable, headlight module and gown clips , headband should be lightweight material that's washable and breathable |
| 2 | Lightweight and flexible 3mm cable, Translucent outer sheath for visualization of fiber integrity,. Cool and bright light. Vibrant color rendition.  |
| 3 | Xenon bulb life should be min 1000hrs  |
| 4 | Simple 2-point adjustment, comfortable to fit for all heads of all sizes. Easy to reach 4-position intensity switch  |
| 5 | White Light should Deliver True Color.   |
| 6 | It Should Delivers Cool White IR Filtered Light.   |
| 7 | It should have One Rotating Turret For Compatibility With most Industry Standard Cable Fittings. Above 30000 lux of illumination.  |
| 8 | Continuously adjustable spot size and brightness control, super high output Xenon.,  |
| 9 | Universal Floor stand new large casters- 75mm, 10° angle for better viewing of LCD display. Display of bulb life and intensity must  |
|   | i. Light source and surgical head light should be of the same company and compatible.  |
|   | ii. Bulb life or guarantee should be clearly mentioned and spare bulb must be provided.  |
|   | iii. The unit should be USFDA or European CE approved.   |

**Item SI No.13****Surgical LED Head light**

|    |   |
|----|---|
| 1  | Integrated battery/battery light source that allows more freedom of movement.                   |
| 2  | No separate light source required   |
| 3  | No separate light cable required  |
| 4  | No mains supply required  |
| 5  | Low energy consumption  |
| 6  | No need to change the lamp (At least 25,000 hours of service life)                              |
| 7  | Available with rechargeable battery option  |
| 8  | white light   |
| 9  | Luminosity adjustable from 10 to 100 mm at a working distance of 40 cm                          |
| 10 | Soft flexible headband  |
| 11 | Ergonomic fit   |
| 12 | Easy vertical and horizontal adjustment to the shape of head                                    |
| 13 | Extension cable for attaching the rechargeable battery and battery box to the clothing          |
| 14 | All accessories should be from the same manufacturer and should be European CE/ US FDA approved |

**Item SI No. 14****Vascular Doppler for coronary Graft**

|    |  |            |
|----|--|------------|
| 1  | Intraoperative ultrasound guided diagnostic system to detect bypass graft patency.   |            |
| 2  | Detection and quantification of degree of stenosis in bypass grafts by using the Doppler velocity profile.                   |            |
| 3  | It should display pulsality index, diastolic flow percentage, mean flow.   |            |
| 4  | Atleast four channel for flow, Doppler two pressure channel and one auxiliary channel.                                       |            |
| 5  | Display should be visible on touch screen colour display system with latest generation, monitor 15-20" LCD/LED with printer. |            |
| 6  | It should have vessel search & stenosis location facility.   |            |
| 7  | It should have pressure input, ECG synchronization and curve analysis guide.   |            |
| 8  | It can be used to detect graft spasm.  |            |
| 9  | Real time imaging can be performed.  |            |
| 10 | Probes with flat front face handles for fast and stable measurement.sizes of 1.5, 2,3 & 4 mm.                                |            |
| 11 | There should be facility of epiaortic and epicardial scanning.   |            |
| 12 | Product should have European CE with 4 digit notifying body no./USFDA Approved ;certificate to be provided.                  |            |
|    | <b>BOQ</b>   | <b>QTY</b> |
| 1  | Probes with flat front face handles for fast and stable measurement.sizes of 1.5, 2,3 & 4 mm.                                | 1 each     |
| 2  | ECG Cable  | 2          |
| 3  | Any other consumable or reusable accessories necessary to function the equipment   | 1 each     |

**Item SI No 15****Single chamber pacemaker**

|    |  |
|----|--|
| 1  | Should at least have modes AAO, AAI, VOO and VVI.  |
| 2  | Should have facility to attach to patient arm, leg as well as IV Pole  |
| 3  | Should have sensitivity range from 0.1 to 20mv.  |
| 4  | Should have basic pacing rate 30 to 180ppm which is continuously adjustable.                                   |
| 5  | Should have rapid atrial pacing rate atleast in the range 80-700 ppm, with easy increments.                    |
| 6  | Should have an output amplitude 0.4 to 10 mv continuously adjustable   |
| 7  | Should have incremental adjustable sensitivity 0.1 to 20 mv.   |
| 8  | Should have refractory period of 250 ms.   |
| 9  | Should have work on 9 V alkaline batteries or 1.5 V AA batteries which are very easily available in the market |
| 10 | Should have back up battery life > 200 hrs.  |
| 11 | Should have low battery indicator  |
| 12 | Should provide 4 pacing cables with each unit.   |
| 13 | Should be US FDA/ CE approved.   |
| 14 | Adequate service backup should be available.   |

| SI No | BOQ                      | QTY |
|-------|--------------------------|-----|
| 1     | Single chamber pacemaker | 1   |
| 2     | Pacing cables            | 4   |

**Item SI No.16****Double chamber pacemaker**

| 1     | MODE OF OPERATION: Demand or Asynchronous   |     |
|-------|---|-----|
| 2     | Voltage output:0.1 TO 20 mA or wider  |     |
| 3     | Pulse rate 30-200 or more ppm with rapid atrial pacing available  |     |
| 4     | Pulse width 1 msec or wider.  |     |
| 5     | Display should demonstrate both sensing and pulsing.  |     |
| 6     | Dimensions- should be compact and light in weight   |     |
| 7     | Control: All controls are to be located on the face and are to be protected by a transparent cover and should not be modifiable with at single action |     |
| 8     | Should have safety lock for set pacing parameters   |     |
| 9     | Sensitivity: Should be continuously variable from 1 to 20 mV or more in ventricle and 0.4 -10 mV in atrium.   |     |
| 10    | Refractory period –Atrial 200-500 msec, PVARP   |     |
| 11    | Inhibit sensitivity 1-20 mV   |     |
| 12    | Should have pacing pause mode.  |     |
| 13    | AV interval-manual range 200-300, sensed A-V 100-200  |     |
| 14    | Power backup to be 9 volts, pacing should continue during battery change period.  |     |
| 15    | Should be US FDA/CE approved.   |     |
| 16    | Should have low battery indicator   |     |
| 16    | Six Pacing cables should be provided with each unit.  |     |
| 17    | Adequate service backup should be available.  |     |
| SI No | BOQ   | QTY |
| 1     | Dual chamber pacemaker  | 1   |
| 2     | Pacing cables   | 6   |

**Item SI No 17****Thoracic Videoscapy System**

|     |   |
|-----|---|
|     | <b>1 Description of Function</b>  |
| 1.1 | A thoracoscope is a thin, tube-like rigid endoscope instrument with a light and a lens for viewing.                   |
|     | <b>2 Operational Requirements</b>   |
| 2.1 | The system should meet all the numerical values given in the technical specifications within a tolerance of +/- 10 %. |
| 2.2 | Thorcoscope with video processing and monitoring is required  |
|     | <b>3 Technical Specifications</b>   |
| 3.1 | Technical Specifications Thoracovideoscope  |

|              |   |            |
|--------------|---|------------|
| 1            | Latest image quality for advanced thoracic procedures.  |            |
| 2            | Four-way 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-300-350 mm |            |
| 9            | Bending Section- Angulation range- Up 100-110 degree; Down 100-110 degree; Right 50-60 degree; Left 50-60 degree                                    |            |
| 3.2          | Video processor with light source , Monitor and Recording system with capacity of 1TB   |            |
| 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 duodenoscopy and Enteroscope  |            |
| 9            | Minimum 23" LCD/LED Medical Grade colour monitor with HD resolution   |            |
| 10           | UPS of suitable rating with voltage regulation and spike protection for 60 minutes back up.   |            |
| 11           | Should be FDA or CE or UL or BIS approved product   |            |
| <b>Sl no</b> | <b>BOQ</b>  | <b>QTY</b> |
| 1            | Thoracoscope  | 1          |
| 2            | Video processor with light source , Monitor and Recording system with capacity of 1TB   | 1 each     |

**Item Sl No.18****Suction Machine**

|     |   |
|-----|---|
| 1   | <b>Technical Specifications</b>   |
| 1.1 | Should be noiseless & should have fast vacuum build up                    |
| 1.2 | Should have max vacuum of 675mm Hg  |
| 1.3 | Suction capacity should be 100L/min & twin bottle capacity of 3L each     |
| 1.4 | Should have mechanical overflow protection system                         |
| 1.5 | Should be supplied with all necessary accessories for the complete system |
| 1.6 | System should select second jar automatically                             |
| 1.7 | Max noise level should not be 50 db                                       |
| 1.8 | Should have 4 castors with 2 of them have breakers                        |

|     |   |
|-----|---|
| 1.9 | Oil free and maintenance free vacuum pump   |
| 2   | <b>Power Supply</b>   |
| 2.1 | Power input to be 220-240VAC, 50Hz  |
| 3   | <b>Documentation</b>  |
| 3.1 | User/Technical/Maintenance manuals to be supplied                                 |
| 3.2 | Certificate of calibration and inspection from factory.                           |
| 3.3 | List of important spare parts and accessories with their part number and costing. |

**Item SI No 19****Color Doppler Echocardiography System (Mid End)**

|          |  |
|----------|--|
| <b>1</b> | <b>Description of function</b>   |
| 1.1      | Color Doppler Echocardiography System is required to study the anatomical abnormalities and blood flow in the heart and associated vessels.  |
| <b>2</b> | <b>Operational requirements</b>  |
| 2.1      | Latest generation Electronic Phased array Color Doppler system with Minimum 512 Electronic independent channels. System should be DICOM ready and capable of being interfaced with HIS/RIS/PACS..  |
| 2.2      | Should be field up gradable to next generation system on site.   |
| 2.3      | Frequency compounding or better technology for better resolution and penetration.  |
| <b>3</b> | <b>Technical Specifications</b>  |
| 3.1      | Latest generation Electronic Phased array Color Doppler system with Minimum 512 Electronic independent channels.   |
| 3.2      | 256 gray shades for sharp contrast resolutions   |
| 3.3      | Multi-dimensional Beam former for generating two images simultaneously one at low end of bandwidth and one at high end then selectively retrieves and mixes the components together for finely textured 2-D or B mode image with superior contrast resolution.   |
| 3.4      | Adult Cardiac and Vascular Probes to be supplied which should be latest generation wide band transducers without frequency selection for higher sensitivity of response over a broader frequency range of operation. All probes to be phased array OPTIONAL Probes for paediatric application and Transesophageal Echo for future requirement. |
| 3.5      | Harmonic Imaging- System should have following modes in harmonic with separate setting for:  |
|          | Tissue Harmonic.   |
|          | Contrast Harmonic - both triggered and real time   |
|          | Harmonic Angio .   |
| 3.6      | Harmonic imaging capability in Adult Cardiac, Paediatric Cardiac and linear probe  |
| 3.7      | Gain control in two dimensions for additional level of flexibility to image quality control.   |
| 3.8      | Real time high frequency 2D for higher resolution and low frequency Doppler for higher sensitivity in all probes   |
| 3.9      | Frame rate should be 300 FPS or more   |
| 3.1      | Steerable PW/CW in all Phased Array probes.  |

|          |  |
|----------|--|
| 3.11     | High definition acoustic zoom for enlarging sections of 2D and Colour flow images with more acoustic information for greater clarity and detail while maintaining an optimal frame rate.   |
| 33.12    | Modes - 2D, M-Mode, Steerable PW/CW Doppler, Colour Doppler, and High Definition Colour flow with capability of automatically picking up colour flow as a function of focal depth  |
| 3.13     | Monitor should be 15" or more, high resolution colour Monitor. Tilt and Swivel monitor should be able to view in all angles and all light conditions.  |
| 3.14     | Colour Flow Imaging for  |
| a)       | Increased lateral & spatial resolution.  |
| b)       | Deleted  |
| c)       | Colour flow with capability of automatically picking up colour flow as a function of focal depth   |
| 3.15     | Tissue Colorization (B-Colour) for improved contrast resolution  |
| 3.16     | Application software for Adult, Pediatric, Fetal and Peripheral Vascular and Transesophageal applications. (All application package should be built into the system)   |
| 3.17     | Cine loop memory- more than 120MB of memory. High Frame rate review for better clarity of playback images study in slow motion. Quad loop with memory for pre and post image comparison of any procedure. Memory- 256 frames or more in quad loop. M Mode & Doppler Scroll Memory-40seconds or more. Frame grabber facility for post analysis. |
| 3.18     | Various maps for pre and post processing.  |
| 3.19     | ECG trigger facility.  |
| 3.2      | User defined system and application presets for multi-user department.   |
| 3.21     | CD/DVD/Flash drive recorder for image storage and retrieval. (standard with system)  |
| 3.22     | Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and stress protocol   |
| 3.23     | Tissue movement colorization with quantification possibility for IHD/CAD patients.   |
| 3.24     | Three transducer ports standard  |
| 3.25     | Color Map resolution up to 128 levels.   |
| 3.26     | Facility of Real time perfusion studies  |
| 3.27     | SYSTEM PERIPHERALS should include  |
|          | CD Writer with calculation facility on playback.   |
|          | Color Video Printer.   |
|          | B/W Thermal Printer.   |
| 3.28     | Colour M-Mode  |
| <b>4</b> | <b>System Configuration Accessories, spares and consumables</b>  |
| 4.1      | Color Doppler System with all application packages Quad loop for serial studies with High frame rate review. Harmonic imaging capability in all modes. (Tissue, Contrast, Angio) Integrated Stress Echo Package Digital Storage and Retrieval- 01  |
| 4.2      | 2.0-4.0 MHz Adult Cardiac probe Electronics Phased Array probe.-01 each  |
| 4.3      | 3.0-11.0 MHz Electronics Linear Probe for Vascular applications- 01each  |
| 4.4      | Multi-plane TEE Probe 4-8 MHz for Adult as well as Paediatric echocardiography. - 01 each (Standard)   |

|              |   |            |
|--------------|---|------------|
| 4.5          | 5.0-10 MHz Electronic phased array probe for Paediatric cardiology.(OPTIONAL)   |            |
| 4.6          | DVD/CD Recorder with 100 CDs and 100 DVDs   |            |
| 4.7          | Color Printer. -01  |            |
| 4.8          | B/W Video Thermal Printers -01  |            |
| 4.9          | Colour Print Paper- 500 sheets  |            |
| 4.1          | B/W Thermal Paper - 10 rolls  |            |
| 4.11         | ECG Cable - 02  |            |
| 4.12         | The system should contains all the above accessories Integrated or as separate accessories.   |            |
| <b>5</b>     | <b>Environmental factors</b>  |            |
| 5.1          | The unit shall be capable of operating continuously in ambient temperature of 30° C and relative humidity of 80%  |            |
| 5.2          | Pre Requisites should be clearly spelt out in terms of room requirements.   |            |
| <b>6</b>     | <b>Power supply</b>   |            |
| 6.1          | Power input to be 220-240VAC, 50Hz fitted with Indian plug  |            |
| 6.2          | Resettable overcurrent breaker shall be fitted for protection   |            |
| 6.3          | Suitable Servo controlled Stabilizer/CVT  |            |
| 6.4          | UPS of suitable rating conforming to IS-302 shall be supplied. Servo stabilizer is not required if the UPS has voltage correction facility.   |            |
| <b>7</b>     | <b>Standards and safety</b>   |            |
| 7.1          | Should be FDA or CE approved product  |            |
| 7.2          | Electrical safety conforms to standards for electrical safety IEC-60601 /IS-13450   |            |
| 7.3          | The product shall comply to IEC 60601-2-37 ed1: Medical Electrical Equipment - Part 2-37: Particular Requirements for the Safety of Ultrasonic Medical Diagnostic and Monitoring Equipment  |            |
| 7.4          | Type of protection against electric shocks -- Class I Degree of protection against electric shocks for ultrasound probes Type "BF" For ECG electrodes Type 'CF'   |            |
| 7.5          | The manufacturer should have ISO certification for quality standards.   |            |
| <b>8</b>     | <b>Documentation</b>  |            |
| 8.1          | User manual in English  |            |
| 8.2          | Service manual in English   |            |
| 8.3          | List of important spare parts and accessories with their part number and costing.   |            |
| 8.4          | Certificate of calibration and inspection from factory.   |            |
| 8.5          | Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out   |            |
| 8.6          | List of equipments available for calibration and preventive maintenance as laid down in the Technical/Service Manual.   |            |
| <b>SI No</b> | <b>BOQ</b>  | <b>QTY</b> |
| 1            | Color Doppler System with all application packages Quad loop for serial studies with High frame rate review. Harmonic imaging capability in all modes. (Tissue, Contrast, Anglo) Integrated Stress Echo Package Digital Storage and Retrieval- 01 | 1 No.      |
| 2            | 2.0-4.0 MHz Adult Cardiac probe Electronics Phased Array probe.-01 each   | 1 No.      |
| 3            | 3.0-11.0 MHz Electronics Linear Probe for Vascular applications- 01each   | 1 No.      |

|    |  |            |
|----|--|------------|
| 4  | Multi-plane TEE Probe 4-8 MHz for Adult as well as Paediatric echocardiography. - 01 each (Standard) | 1 No.      |
| 5  | 5.0-10 MHz Electronic phased array probe for Paediatric cardiology.(OPTIONAL)                        |            |
| 6  | DVD/CD Recorder with 100 CDs and 100 DVDs  |            |
| 7  | Color Printer. -01   | 1 No.      |
| 8  | B/W Video Thermal Printers -01   | 1 No.      |
| 9  | Colour Print Paper- 500 sheets   | 500 sheets |
| 10 | B/W Thermal Paper - 10 rolls   | 10 rolls   |
| 11 | ECG Cable - 02   | 2 No.      |

### Item SI No. 20

#### Color Doppler Echocardiography System (Mid End)

|    |  |
|----|--|
| 1  | The system must be latest generation, highest end & technologically advanced Digital 4D (Live 3D) echocardiography system. Any other model other than the highest end and latest version is liable for rejection   |
| 2  | System must be offered with a minimum of 8,00,000 digital processed channels. Original technical data sheet should be enclosed in technical bid to support the number of channels on the system. If not mentioned, please attach a letter from the manufacturer along with the technical bid clearly stating the digital processed channels of the offered system.                             |
| 3  | System must have adult and Pediatric cardiology transducer with either single crystal technology or pure wave technology or matrix for excellent gray scale image quality on difficult to image patients. Please mention the technology used in the transducer. Original technical data sheet should be enclosed in technical bid to support the crystal technology                            |
| 4  | System must be offered with a minimum 21 inches high-resolution flat panel medical grade display monitor with nearly infinite position adjustments. Company should provide wider monitor if available  |
| 5  | System should have at least four imaging universal active probe ports with electronic switching facility from keyboard without probe adapter. 6  |
| 6  | System should be capable of supporting second-generation 4D (Live 3D) matrix transducer capable of supporting a minimum of 2000 elements for exceptional 4D (Live 3D) echo, 4D (Live 3D zoom), triggered full volume and triggered 3D color volume with electro cautery suppression  |
| 7  | System should support broadband probes spanning a frequency of 1- 15MHz.   |
| 8  | Image storing facility on in built hard disc or MOD/CD/DV-RW facility should be available. In built-in hard disk the capacity should be of minimum 1 TB or 5,00,000 images. System should have extensive image management capability including thumbnail review, cine loop editing etc. 5TB external hard drive for data storage to be provided and should be compatible with system provided. |
| 9  | System must be offered with Speckle reduction imaging: Image processing technique to remove speckles and clutter artifacts.  |
| 11 | System should have 4D (Live 3D) echocardiography capabilities with color flow imaging  |
| 12 | System should be capable of scanning depth of 30cm. scanning depth should be clearly mentioned in the technical quote if not mentioned please attach a letter from the manufacturer along with the technical bid clearly stating the scanning depth of 30cm in the offered system  |



|    |   |
|----|---|
| 13 | Should be able to perform advanced quantification measurements like strain & strain rate quantification. Should measure the myocardial velocity and derives the strain rate and strain along user defined Mlines, capable of drawing up to 3M lines at a time, capable of sub-dividing each M-line into 8 sub-regions or according to user defined sub-region sizes, point of interest tool obtains values from any point on the M-mode display. In addition to the Tissue Doppler based strain system should have 2D based strain like VVI, AFI, and TMQ should be offered. These should be offered both on the system and on a licensed workstation. OFF Cart workstation (both licensed hardware and licensed software) should be offered and highlighted in the technical bid |
| 14 | System should be offered with user-friendly high-resolution user interface touch panel of minimum size of 10-11 inches or intuitive keyboard. User friendliness will be given preference.   |
| 15 | Should be able to perform MPR views for Quantification from 3D Imaging on Volume/Strain measurements like LV volumes, Ejection fraction from 3D Image, etc. Also should offer 3D synchronicity indicates to measure and compare timing of maximum contraction of regional LV volumes/Strain. Should display global LV volume and should provide simultaneous display of 17 regional volume/strain waveform. This should be offered both OFFLINE as well as online. OFF-LINE workstation of Apple or equivalent brand (Both hardware and software) should be supplied and highlighted in the technical bid.  |
| 16 | The quantification capabilities should be offered OFF-LINE also. The system images should be transferred through DICOM to the OFFLINE licensed workstation. The workstation should have a DICOM Image Management System Software loaded so as to print images through a Colour laser printer  |
| 17 | The system should have the facility of displaying the three planes of the 3D data set   |
| 18 | Contrast harmonic imaging should be offered as standard on the system, with optimization for low and high MI applications. Should also have facility of low MI with triggered replenishment imaging.  |
| 19 | Integrated stress echo facility to perform stress echo exams.   |
| 21 | Should have the state of the art transmit Real Time Compound Imaging Technology with multiple transmitted lines of sight, wherein Multiple Coplanar Images from different viewing angles are obtained and combined into a single compound imagines at real-time frame rates for improved visualization. Should demonstrate and show multiple transmitted line of sight in linear probes.  |
| 22 | Should be provided with (One Each of) : Adult transthoracic 2 D probe {with Frequency ranging from 1-5 MHz $\pm$ 1 MHz, of Single crystal or Pure Wave technology (System offered with normal transducer for Adult ECHO are liable for rejection)}, Adult Transthoracic 3 D probe{Convex Array matrix Transducer with Frequency ranging from 1-5 MHz $\pm$ 1 MHz}, Paediatric Transthoracic 2 D probe, Adult Transesophageal 3 D probe, Paediatric Transesophagear 2D probe , Epi-aortic probe, vascular probe {Linear Array Matrix transducer with Frequency of 3-15MHz}. Linear array probe with frequency ranging from 4-11 $\pm$ 2 MHz for peripheral vascular examination.   |
| 23 | System should provide with- a. Latest PC of Apple or equivalent brand (off-line licensed workstation) with licensed software for analyzing and quantification of 2D and 3D data sets, CD/DVD writer with Image Management Software and High End colour laser Printer should be supplied. PC should be supplied with a flat panel 17 inch display monitor. (Hardware essential for OFFLINE Quantification) b. Latest B/W Thermal Printer. c. 3KVA online UPS with a backup of 30 min minimum, from any reputed brand   |
| 24 | The system should be US FDA / European CE approved  |
| 25 | <b>General Conditions</b>   |
|    | 1. It will be responsibility of the vendor to submit proposal of CMC at least 6 months before expiry of warranty of previous CMC.   |
|    | 2. In the technical bid the product should be quoted with a set of standard accessories. The price bid must clearly state the accessories included. The price of optional accessories should be quoted separately.  |
|    | 3. The product or its earlier model should have been marketed in the national and international market for at least 5 years.  |

|              |   |            |
|--------------|---|------------|
|              | 4. The parent company should certify that the quoted product is not going to be out of assembly line for at least three years from date of quotation.   |            |
|              | 5. The parent company should give the undertaking to provide the spares during the warranty and CMC period if required.   |            |
|              | 6. If the equipment is software based, and the new software is introduced within five years the up gradation will be provided free of cost  |            |
|              | 7. Training: The necessary training of the personnel for the use of the equipment will be provided by the company/vendor. The vendor must mention the type of training i.e. on site or abroad and number of persons.  |            |
|              | 8. Compliance statement. The vendor must provide, in tabular form a comparative chart of the required technical specification and technical specification of the quoted product. The vendor must give the relevant page number and paragraph number, in their literature regarding that technical information in the technical bid. Merely stating "complies" or "meets requirement" will lead to assumption that the quoted product does not have the required feature |            |
| <b>Sl No</b> | <b>BOQ</b>  | <b>Qty</b> |
| 1            | 4 D Echo Machine  | 1 nos      |
| 2            | Adult transthoracic 2 D probe 1-5 MHz $\pm$ 1 MHz   | 1 nos      |
| 3            | Adult Transthoracic 3 D probe Convex Array matrix Transducer 1-5 MHz $\pm$ 1 MHz  | 1 nos      |
| 4            | Paediatric Transthoracic 2 D probe  | 1 nos      |
| 5            | Adult Transesophageal 3 D probe   | 1 nos      |
| 6            | Paediatric Transesophageal 2D probe   | 1 nos      |
| 7            | Epi-aortic probe  | 1 nos      |
| 8            | vascular probe 3-15MHz  | 1 nos      |
| 9            | Linear array probe 4-11 $\pm$ 2 MHz   | 1 nos      |

## GENERAL TECHNICAL SPECIFICATIONS

### GENERAL POINTS:

#### 1. Warranty:

- a) Five years Comprehensive Warranty as per Conditions of Contract of the TE document for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) Warranty period will be 5 years from the date of installation, commissioning and Site Modification Work from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/Institution/Medical College.
- b) 95% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.
- c) **All software updates should be provided free of cost during Warranty period.**

#### 2. After Sales Service:

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

#### 3. Training:

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

#### 4. Annual Comprehensive Maintenance Contract (CMC) of subject equipment with Site Modification Work:

- a) The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual of the manufacturer, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) and Site Modification Work (if any). The supplier shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, but at least once in six months during the CMC period
- b) The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
- c) Cost of CMC will be added for Ranking/Evaluation purpose. The same will be taken at Net Present Value with a 10% discounting factor each year.
- d) The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by end user on receipt of bank guarantee for 2.5 % of the cost of the equipment as per Section XV valid till 2 months after expiry of entire CMC period.
- e) There will be 95% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- f) During CMC period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- g) All software updates should be provided free of cost during CMC.
- h) Failure of the above [4. e) to 4. g)] by the supplier, may lead to the forfeiture of the Bank Guarantee for Annual CMC.
- i) The payment of CMC will be made as stipulated in GCC Clause 21.

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**5. Site Modification Work:**

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

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

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

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

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

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

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

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

## Section – VIII

### Quality Control Requirements

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

Tender Reference No.

Date of opening

Time

Name and address of the Tenderer:

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

- 01 Name of the manufacturer
  - a. full postal address
  - b. full address of the premises
  - c. telegraphic address
  - d. telex number
  - e. telephone number
  - f. fax number
  
- 02 Plant and machinery details
- 03 Manufacturing process details
- 04 Monthly (single shift) production capacity of goods quoted for
  - a. normal
  - b. maximum
  
- 05 Total annual turn-over (value in Rupees)
- 06 Quality control arrangement details
  - a. for incoming materials and bought-out components
  - b. for process control
  - c. for final product evaluation
- 07 Test certificate held
  - a. . type test
  - b. . BIS/ISO certification
  - c. . any other
- 08 Details of staff
  - a. technical
  - b. skilled
  - c. unskilled

**Signature and seal of the Tenderer**

## Section – IX

### Qualification Criteria

1. The tenderer must be a manufacturer. In case the manufacturer does not quote directly, they may authorize an agent as per proforma of Manufacturer authorization form as given in the tender enquiry document to quote and enter into a contractual obligation.
- 2(a) The Manufacturer should have supplied and installed in last **Five** years from the date of Tender Opening, at least 25% of the quoted quantity of the similar equipment meeting major parameters of technical specification which is functioning satisfactorily.
- 2(b) The Tenderers quoting as authorized representative of the manufacturer meeting the above criteria should have executed at least one contract in the last five years from the date of tender opening of medical equipment anywhere in India of the same manufacturer.
3. The start-ups claiming exemption on the required prior experience, and complying the condition of GIT Clause 35.3 (iv), should furnish along with the bid
  - (i) All necessary documents in support of the claim regarding exemption on prior experience as mandated by concerned Ministry/ Board of Govt. of India.

Notwithstanding anything stated above, the Purchaser reserves the right to verify/ consider, whether the firm/ entity is eligible for exemption regarding prior experience requirement.

#### NOTE:

1. The tenderer shall give an affidavit as under:

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

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

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

3. The Tenderer shall furnish a brief write-up, packed with adequate data explaining and establishing his available capacity/capability (both technical and financial) to perform the Contract (if awarded) within the stipulated time period, after meeting all its current/present commitments. The Tenderer shall also furnish details of Equipment and Quality Control in the enclosed Section VIII.
4. Notwithstanding anything stated above, the Purchaser reserves the right to assess the Tenderer’s capability and capacity to perform the contract satisfactorily before deciding on award of Contract, should circumstances warrant such an assessment in the overall interest of the Purchaser.
5. The Purchaser reserves the right to ask for a free demonstration of the quoted equipment at a pre determined place acceptable to the purchaser for technical acceptability as per the tender specifications, before the opening of the Price Tender.

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

(For the period of last five years)

Tender Reference No. : \_\_\_\_\_

Date of opening : \_\_\_\_\_

Time : \_\_\_\_\_

Name and address of the Tenderer : \_\_\_\_\_

Name and address of the manufacturer : \_\_\_\_\_

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

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

**Signature and seal of the Tenderer**

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

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

**Section – X**  
**TENDER FORM**

Date\_\_\_\_\_

To  
CEO  
HLL Infra Tech Services Limited  
Procurement and Consultancy Division  
B-14 A, Sector -62, Noida -201307, Uttar Pradesh.

Ref. Your TE document No. \_\_\_\_\_ dated \_\_\_\_\_

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

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

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

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

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

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

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



**SECTION – XI**  
**PRICE SCHEDULE**

Price to be filled in the relevant field of Price Format in Excel provided in the e-tendering portal.

**SECTION – XII**  
**QUESTIONNAIRE**

**Fill up the Techno-Commercial Compliance Sheet Bid provided in spreadsheet (Excel file) and upload in the C-Folder**

1. The tenderer should furnish specific answers to all the questions/issues mentioned in the Techno-Commercial Compliance Sheet. In case a question/issue does not apply to a tenderer, the same should be answered with the remark “not applicable”.
2. Wherever necessary and applicable, the tenderer shall enclose certified scanned copy as documentary proof/ evidence to substantiate the corresponding statement.
3. In case a tenderer furnishes a wrong or evasive answer against any of the question/issues, their tender is liable to be ignored.

Note: *The documents like Priced Proforma Invoice (Single Proforma Invoice from Manufacturer’s indicating uniform unit rates) and List of Consumables with prices can be uploaded in the Notes & Attachment under Rfx information (Please note, in the separate Notes & Attachment provided under Rfx information and not in the C-Folder Notes & Attachments).*

**SECTION – XIII**

**BANK GUARANTEE FORM FOR EMD**

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

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

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

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

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

.....  
(Signature with date of the authorised officer of the Bank)

.....  
Name and designation of the officer

.....  
Seal, name & address of the Bank and address of the Branch

**SECTION – XIV**

**MANUFACTURER’S AUTHORISATION FORM**

CEO  
HLL Infra Tech Services Limited  
Procurement and Consultancy Division  
B-14 A, Sector -62, Noida -201307, Uttar Pradesh.

Dear Sir,

Ref: Your TE document No \_\_\_\_\_ dated \_\_\_\_\_

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

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

We further confirm that no supplier or firm or individual other than Messrs. \_\_\_\_\_ (*name and address of the above agent*) is authorised to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also hereby extend our full warranty, CMC as applicable as per clause 15 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

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

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

Yours faithfully,

[*Signature with date, name, designation and Email*]  
for and on behalf of Messrs \_\_\_\_\_  
[*Name & address of the manufacturers*]

Note:

- (2) 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.
- (3) Original letter may be sent.
- (4) The purchaser reserves the right to verify this document with its signatory.

**SECTION – XV**

**BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY**

CEO  
HLL Infra Tech Services Limited  
Procurement and Consultancy Division  
B-14 A, Sector -62, Noida -201307, Uttar Pradesh.

WHEREAS \_\_\_\_\_ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no. \_\_\_\_\_ dated \_\_\_\_\_ to supply (description of goods and services) (herein after called “the contract”).

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

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

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

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

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

This guarantee shall be valid up to 66 (Sixty Six) months from the date of Notification of Award i.e. up to ----- (indicate date)

.....  
(Signature with date of the authorised officer of the Bank)

.....  
Name and designation of the officer

.....  
Seal, name & address of the Bank and address of the Branch

**SECTION – XVI****CONTRACT FORM - A****CONTRACT FORM FOR SUPPLY, INSTALLATION, COMMISSIONING, HANDING OVER, TRIAL RUN, TRAINING OF OPERATORS & WARRANTY OF GOODS**

(Address of the Purchaser/Consignee  
Office issuing the contract)

Contract No \_\_\_\_\_ dated \_\_\_\_\_

**This is in continuation to this office's Notification of Award No \_\_\_\_\_ dated \_\_\_\_\_**

1. Name & address of the Supplier: \_\_\_\_\_
2. Purchaser's TE document No \_\_\_\_\_ dated \_\_\_\_\_ and subsequent Amendment No \_\_\_\_\_, dated \_\_\_\_\_ (if any), issued by the purchaser
3. Supplier's Tender No \_\_\_\_\_ dated \_\_\_\_\_ and subsequent communication(s) No \_\_\_\_\_ dated \_\_\_\_\_ (if any), exchanged between the supplier and the purchaser in connection with this tender.
4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:
  - (i) General Conditions of Contract;
  - (ii) Special Conditions of Contract;
  - (iii) List of Requirements;
  - (iv) Technical Specifications;
  - (v) Quality Control Requirements;
  - (vi) Tender Form furnished by the supplier;
  - (vii) Price Schedule(s) furnished by the supplier in its tender;
  - (viii) Manufacturers' Authorisation Form (if applicable for this tender);
  - (ix) Purchaser's Notification of Award

Note: The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under clause 1 of Section II – 'General Instructions to Tenderers' of the Purchaser's TE document shall also apply to this contract.

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:
  - (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

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

Any other additional services (if applicable) and cost thereof: \_\_\_\_\_

Total value (in figure) \_\_\_\_\_ (In words) \_\_\_\_\_

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

6. Warranty clause

7. Payment terms

8. Paying authority

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

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

Date: \_\_\_\_\_

Place: \_\_\_\_\_

**CONTRACT FORM – B****CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT**

Annual CM Contract No. \_\_\_\_\_ dated \_\_\_\_\_

Between  
(Address of Head of Hospital )And  
(Name & Address of the Supplier)**Ref: Contract No. \_\_\_\_\_ dated \_\_\_\_\_ (Contract No. & date of Contract for supply, installation, commissioning, handing over, Trial run, Training of operators & warranty of goods)**

In continuation to the above referred contract

1. The Contract of Annual Comprehensive Maintenance is hereby concluded as under: -

| 1            | 2                          | 3                | 4  |                 |                 |                 |                 | 5  |
|--------------|----------------------------|------------------|--|-----------------|-----------------|-----------------|-----------------|--|
| Schedule No. | Brief description of goods | Quantity. (Nos.) | Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*. |                 |                 |                 |                 | Total Annual Comprehensive Maintenance Contract Cost for 5 Years<br>[3 x (4a+4b+4c+4d+4e)] |
|              |                            |                  | 1 <sup>st</sup>  | 2 <sup>nd</sup> | 3 <sup>rd</sup> | 4 <sup>th</sup> | 5 <sup>th</sup> |  |
|              |                            |                  | a  | b               | c               | d               | e               |  |
|              |                            |                  |  |                 |                 |                 |                 |  |

Total value (in figure) \_\_\_\_\_ (In words) \_\_\_\_\_

- The CMC commence from the date of expiry of all obligations under Warranty i.e. from \_\_\_\_\_ (date of expiry of Warranty) and will expire on \_\_\_\_\_ (date of expiry of CMC)
- The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years as contained in the above referred contract on yearly basis for complete equipment (including X ray tubes, Helium for MRI, Batteries for UPS, other vacuumatic parts, \_\_\_\_\_ & \_\_\_\_\_) and Site Modification Work (if any).
- There will be 95% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- During CMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/ technical/ operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- All software updates should be provided free of cost during CMC.
- The bank guarantee valid till \_\_\_\_\_ [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs. \_\_\_\_\_ [(fill amount) equivalent to 2.5 % of the cost of the



equipment as per contract] shall be furnished in the prescribed format given in Section XV of the TE document, along with the signed copy of Annual CMC within a period of 21 (twenty one) days of issue of Annual CMC failing which the proceeds of Performance Security shall be payable to the Purchaser/Consignee.

8. If there is any lapse in the performance of the CMC as per contract, the proceeds Annual CMC bank guarantee for an amount of Rs. \_\_\_\_\_ (equivalent to 2.5 % of the cost of the equipment as per contract) shall be payable to the Consignee.
9. **Payment terms:** The payment of Annual CMC will be made against the bills raised to the consignee by the supplier on six monthly basis after satisfactory completion of said period, duly certified by the HOD concerned. The payment will be made in Indian Rupees.
10. **Paying authority:** \_\_\_\_\_ (name of the consignee i.e. Hospitalauthorised official)

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

Received and accepted this contract.  
(Signature, name and address of the supplier's executive  
duly authorised to sign on behalf of the supplier)  
For and on behalf of \_\_\_\_\_  
(Name and address of the supplier)  
(Seal of the supplier)

Date: \_\_\_\_\_

Place: \_\_\_\_\_

**SECTION – XVII**

**CONSIGNEE RECEIPT CERTIFICATE**

(To be given by consignee's authorized representative)

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

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

**SECTION – XVIII**  
**Proforma of Final Acceptance Certificate by the Consignee**

No \_\_\_\_\_

Date \_\_\_\_\_

**To**M/s \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Subject: Certificate of commissioning of equipment/plant.

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

- (a) Contract No \_\_\_\_\_ dated \_\_\_\_\_
- (b) Description of the equipment(s)/plants: \_\_\_\_\_
- (c) Equipment(s)/ plant(s) nos.: \_\_\_\_\_
- (d) Quantity: \_\_\_\_\_
- (e) Bill of Loading/Air Way Bill/Railway Receipt/ Goods Consignment Note no \_\_\_\_\_ dated \_\_\_\_\_
- (f) Name of the vessel/Transporters: \_\_\_\_\_
- (g) Name of the Consignee: \_\_\_\_\_
- (h) Date of site hand-over to the supplier by consignee: : \_\_\_\_\_
- (i) Date of commissioning and proving test: \_\_\_\_\_

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

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

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

The supplier has fulfilled its contractual obligations satisfactorily ## or

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

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

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

is

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

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

*(Signature)*

*(Name)*

*(Designation with stamp)*

**## Explanatory notes for filling up the certificate:**

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

**Section – XIX****Consignee List**

| Sl. No. | Name of Hopsital and Address  | Consignee Code     | State             | Airport   | Dry Port/ Seaport               |
|---------|---|--------------------|-------------------|-----------|---------------------------------|
| 1       | The Principal<br>Siddartha Medical College<br>NH 16 Service Road, Opp. Varun Maruthi Showroom<br>Near Health University, Gunadala, Vijayawada<br>Andhra Pradesh 520008<br>Phone: 09849903130<br>Email: principalsmcvja@yahoo.com                              | SMC-<br>Vijayawada | Andhra<br>Pradesh | HYDERABAD | VIZAG                           |
| 2       | Dr. M. Neeraja<br>The Dean/ The Principal<br>Govt. Medical College<br>Opp. EE Roads & Buildings, Sai Nagar, Anantapur<br>Andhra Pradesh - 515001<br>Phone : 08554-249115, 274568<br>EMail : gmc_atp@ap.nic.in;<br>principal.gmcatp@yahoo.in                   | GMC-<br>Anantapur  | Andhra<br>Pradesh | HYDERABAD | VIZAG                           |
| 3       | Dr. K. Ashok<br>The Director<br>Director's Quarters RIMS Campus<br>Rajiv Gandhi Institute of Medical Sciences, Adilabad<br>Vidya Nagar, Adilabad, Telangana 504001<br>Office: 08732-220521<br>Email: rimsadilabad@yahoo.com;<br>directorrimadilabad@yahoo.com | RGIMS-<br>Adilabad | Telangana         | HYDERABAD | VIZAG                           |
| 4       | Dr. Abbagani Vidyasagar<br>The Principal<br>Kakatiya Medical College, Waranagl<br>Rangampet Street, Warangal, Telangana 506007<br>Phone: 0870-2446355, 2446888<br>Email: pwarangal@gmail.com; kmc_wgl@ap.nic.in   | GMC-<br>Warrangal  | Telangana         | HYDERABAD | VIZAG                           |
| 5       | The Principal<br>Assam Medical College, Dibrugarh<br>Barbari, Dibrugarh, Assam - 786 002<br>Phone No. : (0373) 2300080, 2300352<br>Email: principalamch@rediffmail.com  | AMC-<br>Diburgarh  | Assam             | KOLKATA   | KOLKATA                         |
| 6       | The Principal<br>Govt. Medical College, Darbhanga<br>DMCH Road, Laheriasaria<br>Darbhanga<br>Bihar - 846001<br>Phone No. : 06272 233 092<br>Email: principaldmc202@gmail.com  | GMC-<br>Dharbhanga | Bihar             | KOLKATA   | KOLKATA                         |
| 7       | Dr. H. M. Mangal<br>The Dean<br>Govt. Medical College<br>Civil Hospital Campus,<br>Rajkot - 360001<br>Ph. No. : +91 281 2458337,2458338, 2458339<br>Email Address : deanrajkot@yahoo.co.in  | PDUMC-<br>Rajkot   | Gujarat           | AHMEDABAD | MUNDRA /<br>PIPAVAV /<br>KANDLA |

|    |  |                      |                   |           |           |
|----|--|----------------------|-------------------|-----------|-----------|
| 8  | The Principal<br>Patliputra Medical College, Dhanbad<br>B.C.C.L. Township, Koyla Nagar<br>Dhanbad - 826005, Jharkhand<br>Phone : +91-326-2230465<br>Email: enquiry@pmchdhanbad.com   | PMCH-<br>Dhanbad     | Jharkhand         | KOLKATA   | KOLKATA   |
| 9  | The Director<br>Karnataka Institute of Medical Sciences<br>P. B Road, Vidyanagar<br>Hubballi - 580 022, Karnataka, India<br>Phone: +91- 836- 2370057, +91- 836 - 2373447,<br>+91 - 836 - 2373641<br>Email: directorkimshubli@gmail.com | KIMC-Hubballi        | Karnataka         | BANGALORE | BANGALORE |
| 10 | The Dean<br>Govt. Medical College<br>Jail Road, Near Sanjay Gandhi Hospital, Rewa<br>Madhya Pradesh 486001<br>Phone: 07662-241655<br>Email: deanmcrewa@rediffmail.com  | GMC-Rewa             | Madhya<br>Pradesh | MUMBAI    | MUMBAI    |
| 11 | The Director<br>Netaji Subhash Ch. Bose Medical College, Jabalpur<br>Nagpur Road, Jabalpur, Madhya Pradesh 482003<br>Phone: 076123 70951<br>Email: nscbmcjb@gmail.com  | NSBMC-<br>Jabalpur   | Madhya<br>Pradesh | MUMBAI    | MUMBAI    |
| 12 | The Dean<br>Govt. Medical College, Aurangabad<br>Panchakki Road, Aurangabad - 431001<br>Maharashtra<br>Ph No. : 0240-2402028<br>Email: deangmca@gmail.com  | GMC-<br>Aurangabad   | Maharashtr<br>a   | MUMBAI    | MUMBAI    |
| 13 | The Dean<br>Govt. Medical College, Latur<br>Near Old Railway Station<br>Latur (M.S.) 413512<br>Call us: 02382 247676<br>E-mail: info@gmclatur.org  | GMC-Latur            | Maharashtr<br>a   | MUMBAI    | MUMBAI    |
| 14 | The Dean<br>Shri Vasant Rao Naik Govt. Medical College,<br>Yavatmal<br>Maharashtra - 445001<br>Phone: (07232) 242456,240843<br>Email: deanvngmc@sancharnet.in  | SVNGMC-<br>Yavatmala | Maharashtr<br>a   | MUMBAI    | MUMBAI    |
| 15 | The Dean and Principal<br>M. K. C. G. Medical College, Berhampur<br>Berhampur, District - Ganjam<br>Odisha. Pin: 760 004<br>Tel. No. (0680) 2292746<br>Fax: (0680) 2292809<br>E-mail : mkcgmc.bam@gmail.com                            | MKCGMC-<br>Berhampur | Orissa            | KOLKATA   | KOLKATA   |
| 16 | The Dean and Principal<br>V. S. S. Medical College, Burla<br>Burla, Sambalpur, Odisha - 768017<br>Phone: +91-6632430768<br>Email: vssmcurlaorissa@gmail.com  | VSSMC-Burla          | Orissa            | KOLKATA   | KOLKATA   |

|    |  |                 |                  |                 |                  |
|----|--|-----------------|------------------|-----------------|------------------|
| 17 | The Principal<br>Government Medical College<br>Sangrur Road, New Lal Bagh,<br>Patiala, Punjab 147001<br>Ph: 0175 221 2018<br>Email: gomcoitcell@yahoo.com  | GMC-Patiala     | Punjab           | NEW DELHI       | NEW DELHI        |
| 18 | The Dean cum Prinicpal<br>Indira Gandhi Medicla College<br>Shimla - 171001<br>Phone: (0177) 2804251<br>Email: info@igmcshimla.org  | IGMC-Shimla     | Himachal Pradesh | DELHI AIR CARGO | ICD, TUGHLAKABAD |
| 19 | The Principal<br>Govt. Medical College, Kota<br>Near building, LIC Office, Rangbari Rd, Sector - A,<br>Rangbari, Kota, Rajasthan 324010<br>Phone: 0141 222 7406<br>Email: principalmck@gmail.com | GMC-Kota        | Rajasthan        | DELHI AIR CARGO | ICD, TUGHLAKABAD |
| 20 | The Dean<br>Thanjavur Medical College, Thanjavur<br>Tamil Nadu - 613 004<br>Phone: 04362-240851, 04362-240951<br>Email: thjmc_tn@yahoo.com   | GMC-Thanjavur   | Tamil Nadu       | CHENNAI         | CHENNAI          |
| 21 | The Dean<br>Tirunelveli Medical College, Tirunelveli<br>Address: Palayamkottai<br>Tamil Nadu 627011<br>Phone: 0462 257 2733<br>Email: dean@tvmc.ac.in  | GMC-Tirunelveli | Tamil Nadu       | CHENNAI         | CHENNAI          |
| 22 | The Principal<br>Agartala Govt. Medical College<br>Agartala - 799 006<br>Phone: 03812357130/ 2356701<br>Email: agmc-tr@nic.in, agmc@rediffmail.com   | AMC-Tripura     | Tripura          | KOLKATA         | KOLKATA          |
| 23 | The Principal<br>B.R.D.Medical college Gorakhpur<br>Uttar Pradesh 273013<br>Phone: 0551 250 1736<br>Email Id :brdmcgkp1969@gmail.com,<br>info@brdmc.org  | GMC-Gorakhpur   | Uttar Pradesh    | DELHI AIR CARGO | ICD, TUGHLAKABAD |
| 24 | The Principal<br>M. L. N. Medical College, Allahabad<br>George Town, Allahabad, Uttar Pradesh 211002<br>Phone: 2147483647<br>Email: ansari@gmail.com   | MLNMC-Allahabad | Uttar Pradesh    | DELHI AIR CARGO | ICD, TUGHLAKABAD |
| 25 | The Principal<br>L. L. R. Medical College, Meerut<br>Garh Road, Jai Bhim Nagar, Meerut<br>Uttar Pradesh 250004<br>Phone: 0121-2760888<br>Email: medllrm@yahoo.com                                | LLRMMC-Meerut   | Uttar Pradesh    | DELHI AIR CARGO | ICD, TUGHLAKABAD |
| 26 | The Principal<br>B. S. Medical College, Bankura<br>Kenduadihi, Bankura<br>West Bengal 722101<br>Phone: 03242 244 700<br>Email: bsmc_xsa@yahoo.com,<br>prin_bsmc@wbhealth.gov.in                  | BSMC-Bankura    | West Bengal      | KOLKATA         | KOLKATA          |

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| 27 | The Principal<br>Prof. Samir Chandra Ghosh Roy<br>North Bengal Medical College, Darjeeling<br>Thiknikata, India, Siliguri, Darjeeling<br>West Bengal 734012<br>Phone: 098320 17967<br>Email: sgroy53@gmail.com | NBMC-<br>Darjeeling | West<br>Bengal | KOLKATA | KOLKATA |
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**NB: The consignee will ensure timely issue of NMIC, CDEC, Octroi Exemption Certificates, Road Permits & Entry Tax Exemption Certificates, wherever applicable, to the suppliers.**