

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/06/CAD/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/06/CAD/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 **Cardiology** 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	3000002004	Bi-Plane Cardiovascular & Neuroangiography System with DSA	5	5750	8000000
2	3000002005	Single plane cardiovascular Catheterisation with digital subtraction angiography lab	30	5750	36000000
3	3000002006	Cardiovascular Electrophysiology (EP) and Radiofrequency Ablation System	13	5750	1820000
4	3000002007	High End Echocardiography system (4 D ECHO)	25	5750	5000000
5	3000002008	Echocardiography System with Advanced 2D Facility	23	5750	1840000
6	3000002009	Portable Echocardiography System	22	5750	1320000
7	3000002010	TMT Machine (Stress test system)	35	5750	1400000
8	3000002011	Holter system with work station	59	3450	472000
9	3000002012	12 Channel ECG Machine	138	3450	414000
10	3000002013	3D Mapping System	9	5750	3960000
11	3000002014	OCT &FFR Integrated System	16	5750	6880000
12	3000002015	Rotablation Machine	3	575	90000
13	3000002016	Tilt Table (Motorised)	2	575	13600

- (2) Tender timeline:

Sl. No.	Description	Schedule
a.	Last date for receipt of Pre-bid queries	16.06.2017, 1800 hrs IST
b.	Pre-bid meeting date, time	19.06.2017, 1100 hrs IST
d.	Closing date & time for submission of online bids	11.07.2017, 1800 hrs IST
c.	Closing date & time for submission of tender processing fee and EMD in physical form*	12.07.2017, 1400 hrs IST
e.	Time and date of opening of online bids	12.07.2017, 1430 hrs IST
f.	Venue for :- • Submission of tender processing fee, EMD in physical form. • Tender Opening-Tech Bid	HLL Infra Tech Services Limited, Procurement & Consultancy Services Division, B-14 A, Sector-62, 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 or www.lifecarehll.com or 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

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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 and 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:
- 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;
 - 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;
 - 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;
 - The price of Incidental Services, as mentioned in List of Requirements and Price Schedule;
 - The prices of Site Modification Work (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule.
 - 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:
- The price of goods quoted FOB/FCA port of shipment, as indicated in the List of Requirements and Price Schedule;
 - Price of goods quoted CIP (name port of destination) in India as indicated in the List of Requirements, Price Schedule and Consignee List
 - 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;
 - The charges for Incidental Services, as in the List of Requirements and Price Schedule;
 - The prices of Site Modification Work (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
 - 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:**
- If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of excise duty will be entertained after the opening of tenders.

- b) If a Tenderer chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the tenderer must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.
- c) Subject to sub clauses 13.5.2 (a) & (b) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

13.5.3 **Sales Tax:**

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

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

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

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

13.5.5 **Customs Duty:**

The Purchaser will pay the Customs duty wherever applicable.

- 13.6 For transportation of imported goods offered from abroad, relevant instructions as incorporated under GCC Clause 10 shall be followed.
- 13.7 For insurance of goods to be supplied, relevant instructions as provided under GCC Clause 11 shall be followed.
- 13.8 Unless otherwise specifically indicated in this TE document, the terms FCA, FOB, FAS, CIF, CIP, DDP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS, published by the International Chamber of Commerce, Paris
- 13.9 The need for indication of all such price components by the tenderers, as required in this clause (viz., GIT clause 13) is for the purpose of comparison of the tenders by the purchaser and will no way restrict the purchaser's right to award the contract on the selected tenderer on any of the terms offered.

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 misleading 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

The FAQs are available in the below link:

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 25th 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 1st April 2012. The policy mandates that 20% of procurement of annual requirement of goods and services by all Central Ministries / Public Sector Undertakings will be from the micro and small enterprises. The Government has also earmarked a sub-target of 4% procurement of goods & services from MSEs owned by SC/ST entrepreneurs out of above said 20% quantity.
- ii. In accordance with the above said notification, the participating Micro and Small Enterprises (MSEs) in a tender, quoting price within the band of L 1+15% would also be allowed to supply a portion of the requirement by bringing down their price to the L 1 price, in a situation where L 1 price is from someone other than an MSE. Such MSEs would be allowed to supply up to 20% of the total tendered value. In case there are more than one such eligible MSE, the 20% supply will be shared equally. Out of 20% of the quantity earmarked for supply from MSEs, 4% quantity is earmarked for procurement from MSEs owned by SC/ST entrepreneurs. However, in the event of failure of such MSEs to participate in the tender process or meet the tender requirements and the L 1 price, the 4% quantity earmarked for MSEs owned by SC/ST entrepreneurs will be met from other participating MSEs.
 - iii. The MSEs fulfilling the prescribed eligibility criteria and participating in the tender shall enclose with their tender a copy of their valid registration certificate with District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or any other body specified by Ministry of Micro and Small enterprises in support of their being an MSE, failing which their tender will be liable to be ignored.
 - 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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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.

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.

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 or on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.
 - (c) But nevertheless, the Purchaser/Consignee shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or 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 inter alia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.
- 27.2 The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by the Purchaser/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	3000002004	BI-Plane Cardiovascular & Neuroangiography System with DSA	5	5	5
2	3000002005	Single plane cardiovascular Catheterisation with digital subtraction angiography lab	30	5	5
3	3000002006	Cardiovascular Electrophysiology (EP) and Radiofrequency Ablation System	13	5	5
4	3000002007	High End Echocardiography system (4 D ECHO)	25	5	5
5	3000002008	Echocardiography System with Advanced 2D Facility	23	5	5
6	3000002009	Portable Echocardiography System	22	5	5
7	3000002010	TMT Machine (Stress test system)	35	5	5
8	3000002011	Holter system with work station	59	5	5
9	3000002012	12 Channel ECG Machine	138	5	5
10	3000002013	3D Mapping System	9	5	5
11	3000002014	OCT &FFR Integrated System	16	5	5
12	3000002015	Rotablation Machine	3	5	5
13	3000002016	Tilt Table (Motorised)	2	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 01

Bi-Plane Cardiovascular & Neuroangiography System with DSA

	Latest state of the art, bi plane floor and ceiling mounted C-arm/G-arm Cardiovascular & Neuro-angiography system with flat detector technology digital imaging system for adult and pediatric diagnostic and interventional cardiovascular procedures, including valvuloplasty and vascular angiography and neurovascular applications and online DSA.
1	Bi Plane Gantry system
1.1	The system should have two 'C/G' arm gantries: one floor mounted and one ceiling suspended providing full body coverage. Both gantry movements should be rapid, motorized & collision proof. Manual override by the operator should be possible.
1.2	It should be possible to pre-programme the gantry positions, angulations & rotations for at least 50 user defined examination positions.
1.3	All movements of the gantries should be controlled from the joystick on the table-side as well
1.4	Both gantries should have fast speed for angulations and positioning. The frontal system should have a speed of at least 15 degree/sec for all positions and lateral plane should have a speed of at least 8 degree/sec
1.5	Gantry angulations & rotations in both planes, frontal and lateral should be freely user selectable to satisfy clinical imaging needs
1.6	Both gantries should have an automatic positioning capability as projected from relevant reference image.
1.7	Head to toe coverage with Single plane without repositioning the patient.
1.8	The gantry and detector placement for oblique angulations should be possible without any compromise, systems with uniform & better oblique angulations along the side of detector will be preferred
2	Table
2.1	Floor mounted long table with carbon fiber table top with easy patient transportation capability.
2.2	For easy patient transfer the table should have swirl of at least +/- 90 degrees.
2.3	Motorized up down movements and floating longitudinal and transverse movement with locking facility.
3	X-Ray Generator
3.1	100 KW or more compatible with high resolution imaging.
4	X-Ray Tube
4.1	X-Ray tube should be with fine focal spot (small & large) with high cooling rate to ensure continuous operation, capable of pulsed fluoroscopy on both focal spots. The large focus power output should be 65 kW or more. The Pulsed Fluoroscopy should be offered with pulse rate of 7.5 frames/sec to 30 frames/sec.
4.2	The X-Ray tube should have Anode heat storage capacity of at least 2.0 MHU or more to run continuously for 6-8 hours without shutting off.
5	Radiation protection:
5.1	The system should have integrated computer controlled (preferably automatic) X-Ray Beam filtering with copper filters of various sizes from 0.2 mm to 0.9 mm. Please list the special filters available.
5.2	The system should have positioning of collimator blades without radiation.
5.3	The system should have monitoring and display of X-ray dose during the patient examination. It should be possible to create a DICOM based dose report of the patient.
6	Digital imaging System:

6.1	Both planes should have flat panel detectors with diagonal size of at least 42 cm for the frontal plane and 24 cm for the lateral plane. Please mention pixel size. The smaller pixel size will be preferred.
6.2	Digital system with acquisition and processing in 1024x1024 matrix upto 25/30 fps with 10/12 bit digitization.
6.3	Cine loop replay facility & last image hold facility during fluoroscopy.
6.4	Image storage capacity of at least 50,000 images in 1024x1024 matrix at 10/12 bits on the main system disk.
6.5	System should have facility for ECG triggered fluoroscopy, display and archive.
6.6	System should have on-line & off-line validated coronary analysis and ventricle analysis programme. The software should have Auto calibration facility for stenosis measurement with geometrical and densitometry calculations. The analysis should be possible from table side in the examination room and from the control room.
6.7	The full system should have table side control operation with complete acquisition and post processing capabilities.
6.8	The system should have on-line DSA capabilities in 1024 x 1024 matrix with acquisition frame rate of 1 frame/sec to 6 frames/sec or more.
6.9	The system should have facility of rotational angiography with online rotational DSA facility. The facility should allow 3D reconstruction of brain & heart.
6.10	The system should have facility for storage of fluoro loop scene of at least 10 seconds.
6.11	The system should have patient collision protection facility with software & hardware.
6.12	The system should be quoted with 3D modeling/analysis of coronary arteries.
6.13	The latest complete software and hardware for visualizing stent with extra high-resolution from table side control.
6.14	Real time image processing software and overlay of road map on fluoroscopy image for vascular interventions.
7	Monitors / Display:
7.1	The monitor display should be offered with single TFT monitor of 56" or minimum 8 megapixel resolution. Facility of simultaneously display of at least 8 images source inputs (analog/digital) should be available to display reference image, patient hemodynamic monitoring, 3D acquisition imaging and images from other sources like CT/MR. The monitor display system should be ceiling suspended and should allow flexibility in having different image layouts of desired sizes.
7.2	A standby high resolution TFT/LCD monitor of at least 19 inches along with large display to be offered.-1 No.s
7.3	Control room shall have at least 2 no.s of widescreen Medical grademonitors for display of live ,playback , reference images of each plane.
7.4	High resolution 18/19 inch medical grade monitor for post-processing and reporting in the control room with main console.-1 No.s
7.5	One nos. high resolution 18/19 inch medical grade monitors for parallel viewing of live images outside the cath lab.
7.6	Integrated two way communication system between control room and examination room.
8	Digital Archiving
8.1	System for recording images on DVD/CD_R with DICOM Viewer in DICOM 3 format having capability of receive and transfer of images from cath lab to remote review station. A separate 18/19 inch monitor for this to be supplied. -1 Nos
8.2	Dynamic viewing of CD/DVD images at frame rate of 0-25 frames/sec, single frame step by step, fast forward & fast rewinding.
8.3	Image transfer from digital system in background mode without affecting the system operation.
8.4	USB interface to copy images to memory disk / external hard disk.

8.5	The system should have complete DICOM send, DICOM storage commitment, DICOM query retrieve, DICOM worklist, DICOM MPPS, DICOM print and other DICOM protocols and interfaces of PACS, HIS/RIS
8.6	The patient images from the main system to be transferred to a server of at least 10 terabytes capacity with patient data management system with RAIDS.
9	3D Acquisition and Cross-Sectional Imaging:
9.1	The 3D Acquisition should offer:
a	3D Reconstruction and visualization in real time of a volume in volume rendering technique.
b	Multiplaner reconstruction (MPR) & Maximum intensity projection (MIP)
c	This should include the accessories for 3D reconstruction like calibration phantoms, phantoms and test plates for image quality measurements.
d	3D Road Mapping with overlay facility of 3D Roadmap over live fluoroscopy.
e	Dynamic 3D Road Mapping with automatic updation of 3D Roadmap with change of C-arm position, zoom and source to image distance.
9.2	The system should have cross-sectional CT like imaging based on rotational Angiography for visualization of bleeding, ventricular system of the brain and micro stent placement.
a	The acquisition should preferably be ECG gated to plan and complete ablations is visualizing the actual state of cardiac anatomy and physiology e.g. coronary signs etc. Capability to merge/fade live images with 3D segmentation should be available on the 3D workstation in the control room and a parallel display in the exam room. The cross-sectional & 3D images should have processing capabilities in the examination room.
b	The facility should offer auto segmentation of ventricles/vessels of the heart (especially the left atrium with visualization of the pulmonary veins) in automatically performed in one step.
10	CATH LAB Recording System (Electro-Physiology and Hemodynamic Recorder)
10.1	The following features should be available in the recorder
a	12 lead ECG Amplifier with floating input
b	NIBP Module with necessary cables & consumables
c	Spo2 Module with necessary cables & consumables
d	At least 2 pressures with floating inputs
e	Time and amplitude measurement with electronic calipers
f	One Laser Network Printer of high resolution (at least 1200 dots per inch) with minimum 128MB memory and 1200 dpi should also be offered for high quality image printing on A4 paper – 5 reams of glossy printing papers to be supplied.
10.2	The patient connection box should be easy to install at the patient table in the examination room
10.3	18/19" color wave form monitor with programmable layout and digital monitoring readout – 2 No.s
10.4	Necessary interface and viewing facility with the large 56" display monitor in the examination room and console room.
10.5	The system should have 128 bipolar channels or more of intracardiac ECG recording for Electrophysiology and interfaces for RF ablation system and simulator.
10.6	EP Work station (Electrophysiology Stimulator & RF Ablator system should be provided.)(price to be quoted saperately)
10.7	ECG cables and reusable pressure transducers- 10 each
11	UPS
11.1	Suitable online UPS of at least 120 KVA capacities with 30 min. battery backup for complete cath lab including cine and fluoroscopy. Emergency lighting in Exam room should also be on UPS.
12	Accessories to be supplied:
12.1	State of the art High Pressure injector – 1 No.s
12.2	Lead Glass 120 x 100 cm. (as per AERB guideline)
12.3	Good quality, wrap around light weight Lead free Aprons with hangers – 10 nos.

12.4	Thyroid Guard lead free – 10 nos.
12.5	Radiation protection glasses – 10 no.
12.6	Ceiling suspended radiation protection – 1 no.
12.7	Table mounted radiation protection – 1 no.
12.8	Movable radiation protector shield to be provided-2 Nos
12.9	ACT machine Bicuvette– 1 No.
12.10	12 Channel ECG machine with A4 size format.-1 No
12.11	Laser Network Printer of high resolution (at least 1200 dots per inch) with minimum 128MB memory and 1200 dpi should also be offered for high quality image printing on A4 paper – 5 reams of glossy printing papers to be supplied-1 Nos
13	Certifications:
a	The system should be AERB type approved and the copy of E-LORA Listing should be submitted along with bid.
b	Regular QA according to AERB norms will be responsibility of bidder during warranty and CMC period.
c	Product Should have European CE with 4 digit notifying body no./USFDA Approved certificate to be provided.
14	Site Modification
	The Site modification Work - Biplane D.S.A
1	The Supplier should inspect the proposed site offered by the Consignee Institute in which the Cath Lab system has to be installed and they are required to submit the plan for the complete Cath Lab Centre . The scope of work includes complete Civil work, Electrical, Plumbing, Furnishing, Air-conditioning and Fire fighting for the construction of Cath Lab Centre.
2	While preparing the plan, the following aspects have to be addressed:
a)	Care should be taken to provide easy negotiation of the patient stretchers/ trolleys through corridors and doors.
b)	Radiation shielding for doors, walls, windows etc.
c)	Furniture like desk, chairs, shelves etc.
d)	Patient stretcher and other furniture/ accessory to make the Cath Lab centre functional.
3	The cost of Site modification for the area of 1500sq.ft and Air-conditioning of Tonnage 20 TR will be considered for Ranking / Evaluation purpose.
4	Moreover Bidders will have to quote the Unit Rates of the following components of turnkey work.
a)	Civil works
b)	Electrical work
c)	Public health (plumbing and sanitary fittings).
d)	Air Conditioning (HVAC)
e)	Interior Furnishing & Furniture
f)	Miscellaneous like scrub, catheter wash station, etc
	Scope of work for Site modification Biplane D.S.A system :
	The Biplane D.S.A site shall consist of the following rooms:
a	Biplane D.S.A Room
b	Console room
c	Equipment room
d	Patient preparation room for minimum two patients
e	Change room
f	Scrub area, catheter wash area
g	Pre Cath Patient waiting area upto 5 patient
h	Post Cath Patient waiting area upto 5 patient

i	Consultant room
	The actual area of site modification works done will be considered for payment, based on the unit rates and site measurements
	Civil work
a)	Civil construction work including construction of brick wall if any, plastering, flooring as per the approved plan and equipment layout plan.
b)	Concrete bed at Biplane DSA equipment area.
c)	Platform for unloading and shifting the Biplane DSA should be provided if necessary.
d)	Cable tray, trench & channel – necessary trenches, cable tray and channels at required location would be provided.
e)	All the construction work to be done as per the final plan approved by the Consignee.
a)	Flooring
1	600 x 600 mm vitrified tiles with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.
2	50 mm thick cement concrete flooring with Vinyl flooring in Biplane DSA equipment / UPS room.
b)	Painting
1	Two coats Plastic Emulsion Paint over 2 coats of wall putty including primer in patient preparation area, Lobby area, console room, Biplane DSA room & Equipment room etc.
c)	False Ceiling
1	Acoustical tile for ceiling with light weight insulating material of high quality supported on grid or finished seamless with support above ceiling. Finished with white paint or powder coated with white paint, if metallic. Ceiling height to suit the equipment mount and clearances.
	Plumbing work
3	All water pipes and fittings shall be of high density polythene of approved and standard make. The gratings shall be brass chrome plated. All plumbing accessories should be of standard make.
	Electrical work
4	The supplier shall be required to specify the total load requirements for the Biplane DSA centre including the load of air conditioning , room lighting and for the accessories if any. The supply line will be provided by the Institute up to one point within the Biplane DSA centre . The distribution panel shall be provided by the vendor. Few lights in each room shall be connected to the UPS to provide emergency lighting.
5	The electrical work shall include the following:
a)	Wiring – All interior electrical wiring- with main distribution panel board, necessary MCBs, DB, joint box, switch box etc. the wires shall be of copper of different capacity as per the load and should be renowned make as listed below.
b)	Switches light and power points should be of modular type and of standard make as listed below.
c)	General lights – LED light fitting with 500 Lux Illumination
	AIR CONDITIONING:
	Ductable package air conditioners and split AC units may be used according to room requirement and suitability. Humidity control should be effective to eliminate moisture condensation on equipment surface. . The Air conditioning should be designed with standby provision to function 24 hours a day.
	The outdoor units of AC should have grill coverings to prevent theft and damage.
	Ventilation is required in toilet.
2	Environment specifications:
a)	Relative Humidity range: To be maintained between 60% and 80% in all areas except equipment room which shall be as per requirement of the equipment.
b)	Temperature ranges: 22 ± 2° C in all areas except equipment room which shall be as per requirement of the equipment.

c)	Air conditioning load: The heat load calculations and maintaining the desired temperature and humidity shall be the responsibility of the bidder.	
Furniture:		
a)	Revolving chairs height adjustable, medium-back with hand-rest in the Control room, Radiologist room and viewing area. – 4 NO.S	
b)	Chairs for patient waiting area – Three seater (chrome plated). - 10 NO.S	
c)	Wall mounted shelves for catheter and other procedural hardware – 4 Nos.	
d)	Cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement. – 3 NO.S	
e)	Drug trolley for patient preparation area.-1 No	
f)	Patient trolley with rubber foam mattress to be kept in the patient preparation room.	
g)	Name boards for all rooms	
h)	Tables for Workstation - 2 No.S	
i)	Changing rooms should have change lockers and dressing table.	
j)	Dustbins-10 No.s	
All furniture items should be of standard make as mentioned in the table below.		
Miscellaneous:		
i	Knee controlled hand free scrub station with disinfectant/ soap dispenser.-1 Nos	
ii	Reporting room should have LED X-ray Film viewer with adjustable brightness; capable of holding 3 films of 14"x17" size. – 2 no.s	
iii	Cabling of Network (LAN) connectivity for camera system, console system, workstation and computers etc	
iv	Fire extinguisher Dry CO2 ABC type as required for the building safety-2 Nos	
LIST OF ITEMS AND SUGGESTED MANUFACTURERS.		
SL NO	ITEMS	PREFERRED MAKES
A	FLOORING VITRIFIED TILES	-Somany, Kajaria , H&R Johnson, RAK india
B	PAINT	- Dulux, Asian Paints , Nerolac
C	PLUMBING	- Kohler, Jaguar , Grohe , Roca
D	SANITARY ITEMS	- CERA, Hindware, Parryware
E	ELECTRICAL	
1	CABLES	- Finolex, Havells ,V-Guard
2	SWITCHES	- Legrand, L&T, Crabtree , Roma
3	DISTRIBUTION BOX , MCB	- Legrand, L&T, Siemens, Havels
4	LIGHT FITTINGS	- Philips / Crompton / Wipro/Syska
F	AIR CONDINTIONING	- Daikin, Hitachi, Blue Star, Voltas,
G	FURNITURE	- Hermen Miller , Godrej , Featherlite,Geeken
SI No	BOQ	QTY
1	BiPlane Cardiovascular & Neuroangiography System with DSA, as specified.	1 no.
2	Standby high resolution TFT/LCD monitor of at least 19 inches	1 no.
3	Wide screen Medical grade Monitor	2 no
4	Post Processing monitor	1 no
5	Monitor for outside cath Lab	1 Nos
6	CATH LAB Recording System (Electro-Physiology and Hemodynamic Recorder)	1 Nos
7	Laser Network printer	1 Nos
8	18/19" color waveform monitor	2 Nos
9	ECG cables	10 Nos
10	Reusable pressure transducers	10 Nos

11	Online UPS	1 Nos
12	Pressure injector	1 Nos
13	Lead Glass	1 Nos
14	Lead Aprons with hangers	10 no.s
15	Thyroid Guard	10 no.s
16	Radiation protection glasses	10 no.s
17	Ceiling suspended radiation protection	1 no.s
18	Table mounted radiation protection	1 no.s
19	Movable RadiationProtection Sheet	2
20	ACT machine	1 no.s
21	12 Channel ECG machine	1 no.s
22	Laser Network Printer	1 Nos
23	Glossy printing papers	5 Reams
24	LED X-ray Film viewer	2 Nos
Site Modification		
1	Civil works	1500 ft ²
2	Electrical work	1500 ft ²
3	Public health (plumbing and sanitary fittings).	1500 ft ²
4	Air Conditioning	20 TR
5	Interior Furnishing & Furniture	1500 ft ²
6	Miscellaneous items	1 set
Furniture:		
1	Revolving chairs	4 NO.S
2	Chairs for patient waiting area	10 NO.S
3	Cupboard with laminate door shutters	3 NO.S
4	Drug trolleys for patient preparation area	1 NO
5	Patient trolley with rubber foam mattress	2 NO.s
6	Tables for Workstation	2 NO.S
7	Changing rooms (with change lockers and dressing table).	1 set
8	Dustbins	10 NO.S
9	Room Signage	LS
10	Venetian Blinds	LS
Miscellaneous:		
1	Cabling of Network (LAN) connectivity for camera system, console system, workstation and computers etc	LS
2	Fire extinguisher Dry CO2 ABC type as required for the building safety.	2 Nos

Single plane cardiovascular Catheterisation with digital subtraction angiography lab

	Latest state of the art single panel floor mounted flat detector technology cardiovascular angiography and digital imaging system for diagNotic and intervention cardiovascular procedures with digital subtraction angiography (DSA). The system should be US FDA or European CE Approved. The lab must have the following specification.
A	Multi Directional C ARM positioned
1	The C arm/G arm should travel both side (right and left) of the patient and it should be possible to park the C arm away from table for patient shifting
2	The C arm/G arm should travel both side (right and left) of the patient for head to toe imaging without repositioning of the patient
3	The C or G arm movement control should be possible from any side of the table
4	The C or G arm rotation minimum 18 degrees/second in RAO/LAO and 18 degree/second in cranio/caudal
5	Angulations LAO/RAO= at least 100/100 degrees Cranio/caudal 45 degrees or more
6	Patient collision prevention and protection is necessary. The system should have an in built collision protection
7	Arm design should allow sufficient space around the table during resuscitation and defibrillation
8	The C/G arm should be able to go to angulations automatically depending upon reference image
B	Patient Table
1	Table shall be floor mounted with carbon fiber table top.
2	Should have table rotation facility from base
3	Maximum patient weight 150kgs or higher with additional weight for at least 50kgs during resuscitation
4	The table should have floating longitudinal and horizontal movement and motorized vertical movement and head side tilt facility
5	Accessories for the table should include head fixing aids, mattress, four radiolucent carbon fiber arm supports, drip stand, peripheral filter set and catheterization Arm support
C	X Ray Generator
1	Generator should be latest technology with high frequency type with at least 100kW output at maximum factor
2	High frequency power unit that provides pulsed fluoroscopy capability should have automatic exposure control device for radiographic fluoroscopy and Angio mode.
3	Should have an overloading protection.
D	X ray tube
1	Should be with a minimum of two focal spots small and large the small focal spot should not be more then 0.6mm with power of at least 30kw large focal spot should not be more then 1mm with power of at least 80kw
2	Anode heat storage capacity at least 2.4 MHU or more
3	Cooling system high oil/water cooling to ensure continuous operation
4	Anode heat cooling rate should be 3000W/min or more
5	Automatic/programmable spectral filtration mechanism for eliminating soft radiation without any need for manual filter insertion in both flour and cine mode

6	X ray tube with noise less operation with high anode heat storage capacity to support long interventional procedures without interruption
E	Dynamic flat detector system
1	Flat detector of current generation for cardiovascular application with excellent spatial and contrast resolution (25cm diagonally) with pixel size smaller than 200Um
2	Smaller pixel size of FD is preferred for smallest detail visualization
3	Should have acquisition and display in at least 1024 x 1024
4	System must be offered with latest image processing software /algorithm to reduce quantum noise in image to have excellent image quality
5	A minimum of 12 bit acquisition with at least 3 level acquisition with at least 3 level of zoom.
6	The DQE of detector should be > 70%
7	The system should have capability to acquire the images @ minimum 30 fps for pediatric application: adult cardiology 12.5-25: peripheral angio range (25 to 30fps)
F	Digital Image system
1	Digital cardiac imaging for acquisition storage and retrieval in high matrix of 1024 x 1024 or more acquisition/ display and storage of image application to give excellent resolution with latest image processing software/algorithm
2	Gray scale depth of at least 8 bit pixel should be possible at all farm speed
3	Image storage capacity of 1,00,000 image at 1024 x 1024 matrix at a minimum of 8 bits/pixel on main system hard disk
4	Medical grade large high definition display (app 56 inches) to display live, reference, 3D,CT like image, Hemodynamic and EP waveforms with layout selection from table side control or separate touch screen module in exam room
5	Monitor should have high refresh rate / flicker free viewing of images
6	In control room there should be data entry monitor live monitor and one DICOM based work station capable of all review, post processing and quantification of coronary and ventricular function in the control room. It should be possible to perform simultaneous off line post processing in control room. It should be possible to write DICOM image CD/DVD on this.
7	Cath lab should be supplied with state of art complete coronary ventricular and vascular on line & off line both quantifications software programs which are clinically validated with operation from exam room and control room
8	Auto calibration should be possible
9	All recall of stored images in fast slow still modes to select images at table side itself
10	Cine loop replay facility & last image hold facility during fluoroscope
11	Integrated intercom facility between control room and Examination room
12	On line acquisition & display of DSA images in 1024 x 1024 matrix with DSA post processing from table side control in exam room and control room. All 2D and 3D road mapping features should be offered.
13	Should have facility for stent enhancement operable from table side and control room
G	Archival System
1	Direct digital archival on compact disk (CD /DVD-recordable) in latest DICOM format preferably in loss less compression
2	Ability to view CD and post process with clinically validated quantification software
3	Ability to export DICOM vascular images onto CD/other image recording medium

4	Two additional fully loaded PC based CD review station with DVD combo devices of latest specification with printers.
5	The system should be fully DICOM ready and fully compliant for connection to PACS system of any make including currently available PACS system for the cath lab.
6	Ability to convert the DICOM loops to BMP/JPEG and AVI format to CDR.
7	The system should supply with DICOM CD recorder for storing DSA runs photo images and it should be possible to review in other PC.
H	Cross sectional imaging
1	Cross sectional 3 D images using 3 D reconstruction algorithms for 3D reconstruction of chambers and vessels of heart from projection images of a rotational angiography. Digital rotational angiography facility at a speed of 40 degree/sec. or more with acquisition frame rate of 25 frames/sec. or more in 1k matrix with facility for dynamic display of subtracted images in 10242 matrix should be available. It should be possible to reconstruct 3D of aortic arch, LA etc for structural heart diseases from this rotational angiographic data
2	The system should have ECG triggered and untriggered 3D acquisition and processing capability.
3	Dedicated 3D workstation to be provided for 3D image processing for efficient workflow with display in control room and exam room -1 No
4	3D roadmapping should be available. It should be possible to have TAVI guidance based on this rotational angiographic data for TAVI procedures with landmark marking and overlay. TAVI guidance packages should be included
5	DICOM workstations: Two number, with 500 GB HDD for image viewing and CD/DVD writing in consultation rooms away from cath lab connected to cath lab for online image transfer. CD/DVD archiving on these computers should be in addition to standard CD/DVD archiving on main system
I	C T imaging
1	Machine should have capability to acquire CT images of heart chambers and vessel using an angiographic system.
	HEMODYNAMIC AND EP STATION (Price to be quoted separately):
	The following features should be available in the recorder
	• 12 Lead ECG Amplifier with floating input
	• At least 4 pressures with floating inputs
	• Time and amplitude measurement with electronic calipers
	• Laser Printer with minimum 16 MB memory with minimum 1200 dpi
2	Storing of patient hemo data on hard disk and retrieval as and when required.
3	18" color wave form monitor with programmable layout and digital monitoring readout – Two
4	SPO2, cardiac output , pressure gradient facility, NIBP should be available
5	FFR measurement facility should be offered and is must & machine should be preferably compatible with OCT & IVUS
6	64 Channel Intra cardiac ECG for electrophysiological studies should be available. Separate system or integrated solution may be offered.
7	Stimulator and RF ablator
8	ECG cable and pressure transducers with facility for superimposition of pressure tracings with printing supports inside the operating room: 4 each
9	Live Hemodynamic monitors should be available in operating room as well as console room

	Essential accessories:
1	Foot switch for fluoroscopy and acquisition.
2	Ceiling suspended operation lamp.
3	Lead glass (120 x 100cm) (as per international radiation protection standard)
4	Radiation shield ceiling and table mounted/suspended. (as per international radiation protection standard)
5	High power contrast injector (floor/ceiling mounted) with 200 syringes.
6	Radiation protective apron (US FDA Approved/European CE; Lead-Free, light weight) of high quality with hangers: (Total quantity 20: Front type - 10, Wrap around – 6 and Two-piece type - 4). It should be state of art light weight with a lead equivalent of 0.5mm.
7	Two hanger stands to hold 5 apron each and two wall mounted hangers to hold 5 aprons each.
8	Thyroid guards 10 in number with lead equivalent of 0.5mm
9	Lead spectacles 10 in numbers.
10	Lead lined gloves: Two pairs
11	Intercom between exam room and control room.
12	One Laser Network Printer of high resolution (at least 1200 dots per inch) with minimum 128MB memory and 1200 dpi should also be offered for high quality image printing.
13	ETO sterilizer: of approved make at least 4.5 cu ft. – One (Price to be quoted separately)
14	Intra-aortic balloon pump (IABP) system – One. State of art, latest, imported model with two gas cylinders and two balloons. (Price to be quoted separately)
15	ABG Machine: One no. for measuring Hb, electrolytes, bicarbonate, Po2, Pco2 and oxygen saturation etc. during cardiac catheterization complete with all accessories like rinse solution, calibration solution etc for at least 100 procedures. (Price to be quoted separately)
16	On line UPS for completed cath lab with back up of at least 30 minutes. Emergency lighting should also be on UPS.
17	Should meet all national and international safety standard and comply with BARC and AERB guidelines
18	Defibrillator with external pacer(US FDA/European CE with 4 digit notifying body no) : 1 No
19	Act machine: 1 No
20	Anaesthesia Workstation: Compact three gas Anaesthesia workstation with an integrated Ventilator for infants/pediatric to adult patients, Airway Monitor and Anaesthesia Monitor. (US FDA Approved/European CE with 4 digit notifying body no) . (Price to be quoted separately)
21	Radiation Protection
22	The system should have integrated computer controlled (preferably automatic) X-Ray Beam filtering with copper filters of various size from 0.2 mm to 0.9 mm to reduce soft radiation for fluoroscopy and acquisition mode. Please list the special filters available.
23	The system must have all software/hardware packages for radiation safety of operator and patient like CARE & CLEAR/ALLURA Clarity or Equivalent.
24	System should meet all National & International safety standards & comply with BARC & AERB guidelines.

J	Installation
1	Installation to be done on turn key basis lab and attached patient waiting area needs to be renovated with high quality false ceiling floor and wall tiles up to roof level high quality adequate modular storage racks and necessary furniture like table chair also need to be provide
2	Cath lab also need to be provided with total 20 ton AC with voltage stabilizer. The AC may be distributed to the console room, Procedure room, equipment room and patient waiting area as per site requirement.
	Site modification
1	Comprehensive site modification and detailed lay out plan suitable to the existing site and ambient condition at the center to be submitted by all the agencies before offering their price bid.
2	Power for air conditioning and space requirement will be provided by the institute for coordinated planning and execution of the work
3	Turnkey would include dismantling and disposal of redundant fixtures and execution of all necessary civil electrical and air conditioning work at site.
4	Site preparation should be time bound and completed before shipment of equipment and time to installation of the machine no more than 4 weeks (total time 90 days).
5	Cost of Site modification works for 1500 sq ft will be considered for ranking purpose; however payment will be made as per the actual site modification work done at site.
6	Essential site preparation requirement include the following.
	Civil work
14	Site Modification
	The Site modification Work - Cath Lab
1	The Supplier should inspect the proposed site offered by the Consignee Institute in which the Cath Lab system has to be installed and they are required to submit the plan for the complete Cath Lab Centre . The scope of work includes complete Civil work, Electrical, Plumbing, Furnishing, Air-conditioning and Fire fighting for the construction of Cath Lab Centre.
2	While preparing the plan, the following aspects have to be addressed:
a)	Care should be taken to provide easy negotiation of the patient stretchers/ trolleys through corridors and doors.
b)	Radiation shielding for doors, walls, windows etc.
c)	Furniture like desk, chairs, shelves etc.
d)	Patient stretcher and other furniture/ accessory to make the Cath Lab centre functional.
3	The cost of Site modification for the area of 1500sq.ft and Air-conditioning of Tonnage 20 TR will be considered for Ranking / Evaluation purpose.
4	Moreover Bidders will have to quote the Unit Rates of the following components of turnkey work.
a)	Civil works
b)	Electrical work
c)	Public health (plumbing and sanitary fittings).
d)	Air Conditioning (HVAC)
e)	Interior Furnishing & Furniture
f)	Miscellaneous like scrub, catheter wash station, etc
	Scope of work for Site modification Cath Lab system :

	The Cath Lab site shall consist of the following rooms:
a	Cath Lab Room
b	Console room
c	Equipment room
d	Patient preparation room for minimum two patients
e	Change room
f	Scrub area, catheter wash area
g	Pre Cath Patient waiting area upto 5 patient
h	Post Cath Patient waiting area upto 5 patient
i	Consultant room
	The actual area of site modification works done will be considered for payment, based on the unit rates and site measurements
	Civil work
a)	Civil construction work including construction of brick wall if any, plastering, flooring as per the approved plan and equipment layout plan.
b)	Concrete bed at Cath Lab equipment area.
c)	Platform for unloading and shifting the Cath Lab should be provided if necessary.
d)	Cable tray, trench & channel – necessary trenches, cable tray and channels at required location would be provided.
e)	All the construction work to be done as per the final plan approved by the Consignee.
a)	Flooring
1	600 x 600 mm vitrified tiles/non porous high quality granite atleast 20 mm thickness with 100mm tile skirting to match in console room, lobby and patient preparation areas, Radiologist room etc.
2	50 mm thick cement concrete flooring with Vinyl flooring in cath Lab equipment / UPS room.
b)	Painting
1	Two coats Plastic Emulsion Paint over 2 coats of wall putty including primer in patient preparation area, Lobby area, console room, Cath Lab room & Equipment room etc.
c)	False Ceiling
1	Acoustical tile for ceiling with light weight insulating material of high quality supported on grid or finished seamless with support above ceiling. Finished with white paint or powder coated with white paint, if metallic. Ceiling height to suit the equipment mount and clearances.
	Plumbing work
3	All water pipes and fittings shall be of high density polythene of approved and standard make. The gratings shall be brass chrome plated. All plumbing accessories should be of standard make.
	Electrical work
4	The supplier shall be required to specify the total load requirements for the Cath Lab centre including the load of air conditioning , room lighting and for the accessories if any. The supply line will be provided by the Institute up to one point within the Cath Lab centre . The distribution panel shall be provided by the vendor. Few lights in each room shall be connected to the UPS to provide emergency lighting.
5	The electrical work shall include the following:
a)	Wiring – All interior electrical wiring- with main distribution panel board, necessary MCBs, DB, joint box, switch box etc. the wires shall be of copper of different capacity as per the load and should be renowned make as listed below.

b)	Switches light and power points should be of modular type and of standard make as listed below.	
c)	General lights – LED light fitting with 500 Lux Illumination	
	AIR CONDITIONING:	
	Ductable package air conditioners and split AC units may be used according to room requirement and suitability. Humidity control should be effective to eliminate moisture condensation on equipment surface. . The Air conditioning should be designed with standby provision to function 24 hours a day.	
	The outdoor units of AC should have grill coverings to prevent theft and damage.	
	Ventilation is required in toilet.	
2	Environment specifications:	
a)	Relative Humidity range: To be maintained between 60% and 80% in all areas except equipment room which shall be as per requirement of the equipment.	
b)	Temperature ranges: 22 ± 2° C in all areas except equipment room which shall be as per requirement of the equipment.	
c)	Air conditioning load: The heat load calculations and maintaining the desired temperature and humidity shall be the responsibility of the bidder.	
	Furniture	
1	Revolving chairs height adjustable, medium-back with hand-rest in the Console room – 4 No	
2	Tables for Console and Workstation - As required	
3	Modular design walls cabinets (highest quality) for safe keeping and storage of drugs, catheter, interventional items, manuals procedures sets, linen, trays etc under lock and key – 4 No	
4	Cupboard with laminate door shutters for storage of spare parts and accessories and records as per requirement. – 3 No	
5	Instrument trolleys- 2 No	
6	Patient foot step – 1 no	
7	Drug trolley – 1 no	
8	Chairs for patient waiting area – Three seater (chrome plated). - 10 No	
9	Patient trolley with rubber foam mattress to be kept in the patient preparation room- 1 No	
10	Changing rooms should have change lockers and dressing table – 2 No	
11	Dustbins (plastic with lid) to be provided- 4No	
12	All furniture items should be of standard make as mentioned in the table below.	
	LIST OF ITEMS AND SUGGESTED MANUFACTURERS	
	ITEMS	
	PREFERRED MAKES	
A	FLOORING VITRIFIED TILES	Somany, Kajaria , H&R Johnson, RAK India
B	PAINT:	Dulux, Asian Paints , Nerolac
C	PLUMBING:	Kohler, Jaguar , Grohe , Roca
D	SANITARY ITEMS:	CERA, Hindware, Parryware
E	ELECTRICAL	
	1 CABLES:	Finolex, Havells ,V-Guard
	2 SWITCHES:	Legrand, L&T, Crabtree , Roma
	3 DISTRIBUTION BOX , MCB :	Legrand, L&T, Siemens, Havells
	4 LIGHT FITTINGS (LED Lights) :	Philips, Crompton, Wipro, Havells, Syska
F	AIR CONDINTIONING:	Daikin, Hitachi, Blue Star, Voltas,

G	FURNITURE: Hermen Miller , Godrej , Featherlite,Geeken	
SI No	BOQ	Qty
1	Dedicated 3D workstation	1 No
2	DICOM workstations:	2 No
3	HEMODYNAMIC AND EP STATION	1 No
4	Laser Printer with minimum 16 MB memory with minimum 1200 dpi	1 No
5	18" color wave form monitor with programmable layout and digital monitoring readout – Two	2 No
6	ECG cable and pressure transducers with facility for superimposition of pressure tracings with printing supports inside the operating room: 4 each	4 No
7	Foot switch for fluoroscopy and acquisition.	1 No
8	Ceiling suspended operation lamp.	1 No
9	Lead glass (120 x 100cm)	1 No
10	Radiation shield ceiling and table mounted/suspended	1 No
11	High power contrast injector	1 No
12	Radiation protective apron light weight	
a	Front type -	10 No
b	Wrap around –	6 No
c	Two-piece type	4 No
d	Lead Cap	4 No
13	Hanger stands to hold 5 apron	2 No
14	Wall mounted hangers	2 No
15	Thyroid guards	10 No
16	Lead spectacles	10 No
17	Lead lined gloves	2 No
18	Intercom between exam room and control room.	LS
19	Laser Network Printer	1 No
20	ETO sterilizer	1 No
21	Intra-aortic balloon pump (IABP) system	1 No
22	ABG Machine:	1 No
23	On line UPS	1 No
24	Defibrillator with external pacer	1 No
25	Act machine	1 No
26	Anaesthesia Workstation:	1 No
	FURNITURES	
1	Revolving chairs height adjustable	4 No
2	Tables for Console and Workstation - As required	LS
3	Modular design walls cabinets	4 No
4	Cupboard with laminate door shutters	3 No
5	Instrument trolleys	2 No
6	Patient foot step	1 No
7	Drug trolley	1 No
8	Chairs for patient waiting area – Three seater (chrome plated)	10 No
9	Patient trolley with rubber foam mattress	1 No

10	Changing rooms should have change lockers and dressing table	2 No
11	Dustbins (plastic with lid)	4 No
Site Modification		
1	Civil works	1500 ft ²
2	Electrical work	1500 ft ²
3	Public health (plumbing and sanitary fittings).	1500 ft ²
4	Air Conditioning	20 TR
5	Interior Furnishing & Furniture	1500 ft ²
6	Miscellaneous items	1 set

Item 03 :**Cardiovascular Electrophysiology (EP) and Radiofrequency Ablation System**

	This entire system would be composed of an EP recording system, a computerized stimulator, and a radiofrequency (RF) ablator generator	
	Specifications for EP System and Stimulator	
1	USFDA/ European CE approved	
2	Should be equipped with 12 lead surface ECG system	
3	At least 50 intracardiac channels	
4	Should have the facility of simultaneous display of blood pressure on active screen	
5	Facility of offline independent review of data and hardware/software setting on a separate installed unit	
6	Must be supplied with compatible laser printer	
7	EP system should be windows based and reviewable with software that can be loaded into any suitable configuration PC/laptop	
8	Data storage of 1 TB, writable patient data CD/DVD	
9	Easy to use with simple commands on single keyboard	
10	Provision of retro recording for atleast 30 seconds	
11	Selectable amount of data to be stored per patient	
12	Online display of RF parameters during ablation	
13	Amplifier with minimum 16 Bit sample conversation rate at 2 KH or more	
14	User configurable reporting format	
15	Data transfer to power point, jpeg or similar images formats	
16	Aggregate report of RF delivered for each case	
17	Should be compatible with all generators including RF and cryo	
18	Should be compatible with 3D mapping systems including Ensite and CARTO	
	Simulator system	
1	Should be compatible with EP system	
2	Computerized stimulator	
3	Should have a minimum 9 pre-programmed protocols and 10 user defined protocol & upto at least 5 extra stimuli	
4	Should have European CE with 4 digit notifying body no/USFDA approved	
	Radiofrequency Ablator System	

1	Minimum 100W RF ablator	
2	Compatible to thermistor or thermocouple and catheters of all leading companies	
3	Memory features for ablation parameters storage and recall	
4	Preferably have auto cut-off option	
5	Both temperature and power control modes available	
6	Should have European CE with 4 digit notifying body no/USFDA approved certificate to be provided.	
Essential accessories for the EP System		
1	21" high resolution LED/TFT monitors for console room: 2 nos.	
2	Laser jet printer: 1 Nos.	
3	Cart with castor wheels: 1 No.	
4	UPS for complete backup for at least one hour	
Other requirements		
1	Onsite training to technicians for 2 weeks	
SI No	BOQ	Qty
1	EP System, as specified	1 No.
2	computerized stimulator, as specified	1 No.
3	radiofrequency (RF) ablator generator, as specified	1 No.
4	21" high resolution LED /TFT monitors for console room	2 No.
5	Laser jet printer	1 No.
6	Cart with castor wheels	1 No.
7	UPS for complete backup for at least one hour	1 No.

Item 04:**High End Echocardiography system (4 D ECHO)**

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 800000 digital processed channels. Original technical data sheet should be enclosed in technical bid to support the number of channels on the systems. If not mentioned, Please attach a letter from manufacturer along with the technical bid clearly stating the digital processed channels of the offered system
3	System must have adult cardiology transducer with either single crystal technology or pure wave technology or matrix for excellent greyscale 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 inch high resolution flat panel medical grade display monitor with 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 key board without probe adapter.
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 colour volume with electro cautery suppression.
7	System should support board band probes spanning a frequency of 1-15 MHz.

8	Image storage facility on in build hard disc or MOD/CD/DVD-RW facility should be available. In built hard disk with capacity of 5TB. System should have extensive image management capability including thumb nail review, Cine loop editing etc.
9	System must be offered with speckle reduction Imaging: Image processing technique to remove speckles and clutter artifacts.
10	System should have 4D (Live 3D) Echocardiography capability with colour flow imaging with single beat
11	System should be capable of scanning depth of 30cm. Scanning Depth should be clearly mentioned in the technical quoted If not mentioned Please attach a letter from manufacturer along with the technical bid clearly stating the scanning depth of 30 cm in the offered system.
12	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 M-lines, Capable of drawing up to 3 M-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, AFT 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 quoted and highlighted in the technical bid.
13	2D speckle tracking.
14	System must be offered with user friendly high resolution user interface touch panel of minimum size of 12.0 inch or intuitive keyboard. User friendliness will be given preference.
15	Should be able to perform MPR views for quantification from 3D Imaging on volume measurements like LV volumes, Ejection fraction from 3D Image, etc. Also should offer synchronicity indicates to measure and compare timing of maximum contraction of LV volumes to determine those patients who will best benefit from CRT system. Should display global LV volume and should provide simultaneous display of 17 regional volume waveform. This should be offered both on the system and on a licensed work station (both licensed hardware and licensed software) should be offered and highlighted in the technical bid.
16	The system should have the facility of displaying the three planes of the 3D data set.
17	Contrast Harmonic Imaging should be offered as standard on the system, with optimization for LOW and HI MI applications. Should also have facility of LOW MI with triggered replenishment Imaging.
18	Integrated stress Echo facility to perform Stress Echo exams.
19	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 Image at real-time frame rates for improved visualisation. Should demonstrate and show multiple transmitted line of sight in linear probes.
20	Latest PC (off-cart workstation) with permanent licence software for analysing and quantification of 2D and 3D data sets like Strain and Strain rate imaging, Tissue Motion Annular Displacement, Mitral valve 3D data sets, 2D Speckel tracking. CD/DVD writer with Image management software and colour laser Printer. PC should be offered with a flat panel 17" display monitor. (hardware essential for OFF cart quantification)
SYSTEM MUST BE THE FOLLOWING TRANSDUCERS	

1	4D (Live 3D) Echo matrix transducer for adult 4D (Live 3D) with frequency ranging from 1-5±1 MHz. This probe must support a minimum of 2000 elements for exceptional 4D (Live 3D) image quality on the matrix array transducer to simultaneous display of two real-time live high-quality image planes. This transducer should have either single crystal technology or pure wave technology for excellent Image quality on difficult to image patient. Please mention the crystal technology used in the transducer. Systems offered with normal transducers for adult echo are liable for rejection.	
2	1-5±1 MHz Broadband adult echo transducer for adult cardiology imaging. Must have Tissue harmonic Imaging, must have either single crystal technology or pure wave or matrix technology for excellent Image quality on difficult to image patients. Must attach original technical data sheet of transducer to specify the above technology used in the transducer. This adult probe must be of the smallest foot print.	
3	3-8 MHz Broadband pediatric echo transducer for pediatric and small adult cardiology imaging.	
4	5-12 MHz broadband pediatric echo transducer for neonatal and large pediatric cardiology imaging.	
5	4D (3D) Echo matrix TEE transducer for Adult 4D (3D) with frequency ranging from 2-7 MHz. Please quote prices of all probes separately also.	
6	System should be supplied with the 2KVA online UPS	
Guarantee & warranty:		
	Guarantee: Comprehensive Guarantee for five years for parts and labour. All software updates a period of 5 to be provided free of cost. CMC should be unconditional and include all accessories including third party items.	
	Comprehensive Guarantee for parts and labour from year 6 to 10 will also need to be quoted in the price separately and will be taken into account(added in the price bid) while calculating the Final price.	
Sl No	BOQ	Qty
1	4D (Live 3D) Echo matrix transducer for adult 4D (Live 3D) with frequency ranging from 1-5±1 MHz.	1 No
2	1-5±1 MHz Broadband adult echo transducer for adult cardiology imaging.	1 No
3	3-8 MHz Broadband pediatric echo transducer for pediatric and small adult cardiology imaging.	1 No
4	5-12 MHz broadband pediatric echo transducer for neonatal and large pediatric cardiology imaging.	1 No
5	4D (3D) Echo matrix TEE transducer for Adult 4D (3D) with frequency ranging from 2-7 MHz. Please quote prices of all probes separately also.	1 No
6	Stand alone PC (Windows based) with suitable DICOM viewer,	1 No
7	Suitable Laser Colour Printer	1 No
8	2KVA online UPS	1 No

Item 05:

Echocardiography System with Advanced 2D Facility

1	Description of Function
1.1	Echocardiography System is required to study the anatomical abnormalities and blood flow in the heart and associated vessels.
2	Operational Requirements
2.1	Latest generation Electronic Phased array Colour Doppler system with Minimum 20000 Electronic independent channels. System should be DICOM ready and capable of being interfaced with HIS/RIS/ PACS.
2.3	Frequency compounding or better technology for better resolution and penetration.
3	Technical Specifications
3.1	Latest generation Electronic Phased array Colour Doppler system with Minimum 20,000 Electronic independent channels.
3.2	256 grey shades for sharp contrast resolutions
4	Transducers
a.	Adult phased array transducer with frequency from 1-5 MHz:
b	Pediatric phased array transducer with frequency from 3-8 MHz
c	Convex Transducer for abdominal ultrasound with 1-5 MHz
d.	Vascular Linear probe with frequency form 4-12 MHz
e	TEE probe for adult and pediatric echocardiography
5	Harmonic Imaging- System should have following modes in harmonic with separate setting for:
a.	Tissue Harmonic
c.	Harmonic Angio
6	Harmonic imaging capability in Adult Cardiac and linear Probe.
7	Gain control in two dimensions for additional level of flexibility to image quality control.
8	Real time high frequency 2D for higher resolution and low frequency Doppler for higher sensitivity in all probes
9	Frame rate should be 300 FPS or more
10	Steerable PW/CW in all Phased Array probes.
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.
12	Colour M-Mode
13	Modes —2D, M-Mode, Steerable PW/CW Doppler, Colour Doppler, and High Definition Colour flow Anatomical M Mode.
14	Monitor should be 15" or more, high-resolution colour Monitor.
15	Tilt and Swivel monitor should be able to view in all angles and all light conditions.
16	Tissue Colorization (B-Colour) for improved contrast resolution
17	Application software for Adult and Peripheral Vascular and Trans oesophageal applications. (All application package should be built into the system)
18	Cine loop memory- more than 120MB of memory or equivalent cine loop memory in frames/ sec.

a.	High Frame rate review for better clarity of playback images study in slow motion.	
b.	Quad loop with memory for pre and post image comparison of any procedure.	
c.	Memory- 256 frames or more in quad loop. M Mode & Doppler Scroll Memory-40seconds or more.	
d.	Frame grabber facility for post analysis.	
19	Various maps for pre and post processing.	
20	ECG trigger facility.	
21	User defined system and application presets for multi-user department.	
22	Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and contrast stress protocol usable for stress echocardiography.	
23	Tissue movement colorization with quantification possibly for IHD/CAD/Heart Failure patient	
24	Three or more active transducer ports.	
25	Colour Map resolution up to 128 levels.	
26	Facility for high definition digital acquisition, review and editing of complete patient studies.	
27	PC based Peripheral system comprising of dedicated computer of standard make, at least 1 TB storage space (Hard disc) with 8 GB RAM or more with a Microprocessor speed of more than 3.00 GHz, frame grabber incorporated (All Software Inclusive) interfaced with the echocardiography machine with DVD writer and a high quality Colour Laser printer. CD/DVD produced should be playable on any system.	
28	Online UPS of suitable rating with voltage regulation and spike protection for 30 min back up.	
29	Standards, Safety and Training	
29.1	Should have European CE with 4 digit notifying body number/USFDA Approved certificate to be provided.	
SI No	BOQ	Qty
1	Colour Doppler Echocardiography System with 2D facility , as specified	1 No
2	Digital Storage and Retrieval device	1 No
3	Adult Cardiac probe	1 No
4	Linear probe	1 No
5	Pediatric Cardiac probe	1 No
6	Adult Convex Probe	1 No
7	Multi plane TEE Probe for Adult echocardiography	1 No
8	Colour Print Paper- 500 sheets	1 No
9	ECG Cable	1 No
10	Laser Colour Printer	1 No
11	Suitable UPS for a 30 minute backup for whole system.	1 No
12	Standalone PC (Windows based) with suitable DICOM viewer	1 No
13	CD	100 No
14	DVD	100 No

Item 06:**Portable Echocardiography System**

1	It should be minimum 8 Kg.portable machine with proper bag and storage facility	
2	The portable machine should come with an OEM cart with three universal imaging transducer port, mobile on four wheels (trolley) for easy movement, with facility to detach the machine from the cart easily for transportation.	
3	System should have extremely high resolution 2D imaging, color flow imaging, M-mode,PW Doppler, CW Doppler , and Duplex modes.	
4	Should have advanced image processing algorithms to analyze between targets and artifacts so as to sharpen target anatomy and reduce speckle and artifacts for excellent image quality.	
5	Should have flat panel high resolution display monitor minimum 15 inch LED monitor	
6	Should have a dynamic range of 200 DB minimum	
7	Should have extended field of viewing of structures, by continuously scanning and moving the probe over the area of interest.	
8	Should have maximum color Doppler frame rate of 750fps .Should have an on –board workstation for storage and review of all exams i.e. 2D Doppler, Loops etc.	
9	Should have DICOM support to be able to connect to hospital network, laser cameras etc	
10	Should have a large hard disk capacity at least 1 TB to store patient data into the hard drive	
11	Should be able to transfer images and clips to CD and DVD media.	
12	The quoted echo machine should be compatible with use of Intracardiac catheter for ultrasound (ICE).	
13	Should be offered with the following transducers without need for frequency selection	
14	Adult transducer with frequency from 1-5 MHz: transducer technology for adult probes should be clearly mentioned in technical bid.	
15	Pediatric echo transducer with frequency from 3-8 MHz	
16	Transducer for abdominal ultrasound with 1-5 MHz	
17	Vascular probe with frequency form 4-12 MHz	
18	TEE probe for adult and pediatric echocardiography (should be quoted as standard)	
19	The system should be capable of performing Stress, Strain and Contrast Echo	
20	Battery backup of minimum 30 min.	
SI No	BOQ	Qty
1	Adult transducer with frequency from 1-5 MHz	1 No
2	Pediatric echo transducer with frequency from 3-8 MHz	1 No
3	Transducer for abdominal ultrasound with 1-5 MHz	1 No
4	Vascular probe with frequency form 4-12 MHz	1 No
5	TEE probe for adult and pediatric echocardiography	1 No
6	Mobile cart and suitable carry bag for machine	1 No

Item 07:

TMT Machine (Stress test system)

1	Description of Function
1.1	Exercise stress testing systems offer a wide array of unique diagnostic software options to evaluate myocardial function. Automatic arrhythmia detection, ST-segment analysis, and T-wave alternans are a few examples. In conjunction with a treadmill or ergometer, these systems provide a controlled environment for the observation of the effects of increases in myocardial oxygen demand: exercise-induced systolic hypotension, exercise-induced angina, and/or the appearance of a heart murmur during exercise.
2	Operational Requirements
2.1	complete system with latest PC, Storage, & Software, TMT and necessary cables required with digital wireless ECG transmission module
3	Technical Specifications
3.1	System should acquire and analyze 12 leads.
3.2	System should be based on Windows platform with minimum 19" color monitor having minimum resolution 1280 x 1024. RAM 8 GB, 1 TB HDD, CD/DVD-RW, Mouse.
3.3	Should provide standard Full Interpretation of Supine ECG with reasoning.
3.4	Display of real time 12 lead diagnostic qualities ECG waveform, average complexes beat of all 12 leads with superimposed color comparison along with digital value of ST level and slope. Print the graph on the recording paper.
3.5	System should have ability to manual edit of J & Isoelectric point during exercise. Filters for line frequency and special filters to reduce noise and baseline artifacts without compromising the ECG frequency response.
3.7	System should have full disclosure play back, review and storage of patient ECG raw data for unlimited numbers depending upon size of the hard disk.
3.8	System should provide multiple and customizable printing formats as per user's choice on A-4 size online real time printings.
3.9	Suitable laser printer for printing reports on plain paper to be supplied.
3.10	System must have ECG trigger output to interface with external automatic devices.
3.11	Heavy Duty Treadmill: Noise free Treadmill with speed ranging from 0.5 to 20 kmph and grade of 0 – 22%.
3.12	All consumables required for installation and standardization of system to be given free of cost.
4	Defibrillator
4.1	Defibrillator should be Bi- Phasic, light weight and latest model
4.2	Should monitor vital parameters and display them
4.3	Should print the ECG on thermal recorders.
4.4	Should work on both Manual mode upto 200J or more and Automated external defibrillation (AED) mode up to 150 J or more.
4.5	Should be capable of doing synchronized & asynchronous cardioversion
4.6	Can be operated from mains as well as battery
4.7	Should have defibrillator testing facility
5	Digital NIBP
6	Power Supply
6.1	Power input to be 220-240VAC, 50Hz
6.2	Suitable UPS for Computer System minimum 30 min backup
6.3	Suitable Servo controlled Stabilizer for Treadmill

7	Standards, Safety and Training
7.1	The treadmill and software should be USFDA /European CE (with 4 digit notified body number).
SI No	BOQ
1	Stress test system
2	Treadmill
3	PC (personal Computer)
3	UPS for Computer System
4	Suitable Servo controlled Stabilizer for Treadmill
5	Laser Printer
6	NIBP
7	Defibrillator Bi- Phasic

Item 08:**Holter system with work station**

1	PC based latest software capable of working with microsoft windows
2	The system should have the capability to acquire/analyse 12 lead ECG derived out of 3 Channel using 5 electrode for 48 Hrs. With facility to display/print 12 lead ECG at any point of time.
3	Should be able to re-edit individual form classes.
4	Should be able to consolidate individual form classes.
5	Should have scroll function for the over view (super page of the ECG)
6	System should be capable of analyzing various arrhythmias like ventricular ectopics, supraventricular ectopics, ventricular tachycardia, ventricular fibrillation, supraventricular tachycardia, atrial fibrillation, sinus pause.
7	Should have the facilities of
a	Heart Rate Variability
b	QT Analysis
c	T wave alternans
d	Heart rate turbulence
8	Operator should be able to edit and reclassify beats and arrhythmias.
9	Report format should include covering page, arrhythmia analysis report, ST segment analysis, automatically and manually selected ECG Strips.
10	ST segment analysis should be available for all three channels.
11	QT analysis with validation
12	Any ECG print out should be possible.
13	Should save 48 hours of ECG into flash memory card / inbuilt memory.
14	Saved data should be read using integrated reading device.
15	Software should Include
	a) Holter analysis
	b) Trends
	c) Strips
	d) Page
	e) Final report
	f) Shape

	g) Event review	
	h) Episode review	
	i) Final report	
	j) TWA alternans analysis	
16	Should have Print out facility.	
17	Recorders with following Configuration	
17.1	3 Digital recorder should have 128 samples/sec/channel for recording and storage 1000/sec/channel for VLP.	
18	PC- Configuration	
1	Should be supplied with a Latest generation PC, (8GB RAM ,processor i7 or above,Memory 1TB Hard drive.)	
2	Suitable Colour Laser printer.	
3	UPS minimum 30 minutes backup	
19	Product should have European CE with 4 digit notifying body no/USFDA Approved certificate to be provided.	
SI No	BOQ	Qty
1	Holter Monitor, as specified	1 No
2	Recorders, as specified	3 No
3	PC- Configuration, as specified	1 No
4	Colour laser Printer	1 No
5	UPS of minimum 30 minutes back up	1 No

Item 09:**12 Channel ECG Machine**

1	12 channel digital ECG machine with simultaneous acquisition of all leads and preferably an LCD/TFT display prior to printing with alarm message	
2	Printing should be on inbuilt thermal printer and also possible on A4 sized laser.	
3	The unit should be light weight, it must be less than 5 Kg and portable, preferably be capable of storing at least 20 electrocardiograms and allow for USB/LAN transfer of this data to a computer	
4	Machine should run on AC current & also on rechargeable batteries independently and should be provided with a proper bag/Stand to carry the equipment and its ancillaries.	
5	The ECG machine should conform to current AHA, ACC guidelines for ECG machine for all age group	
6	The unit should have the capability for proper self check & calibration.	
7	One set of adult and pediatric clip type electrodes for limb leads and chest leads along with necessary cables should be provided.	
8	The output should have the name, date & time of ECG printed and have the option to print in multiple formats.	
9	Analysis software may be quoted as optional.	
10	The unit should preferably be capable of providing continuous single/three/six channel output in any combination in case of necessity of long rhythm strips.	
11	All spares should also be quoted separately i.e Battery, ECG clips, bulbs, ECG cables	
SI No	BOQ	Qty
1	ECG Paper	50 Packets

2	Adult Clips	1 set
3	Pediatric Clip	1 set

Item 10:**3D Mapping System**

1	Capable of 3D non-fluoroscopic mapping of arrhythmia facilitates radio frequency ablation.
2	Electro anatomic 3D mapping should be based on location technique using magnetic field or electrical field current.
3	Platform based on PC computer.
4	The equipment should be State of Art with capability to create 3D map of multiple Arrhythmias.
5	System should be based upon open Platform allowing the use of any make of regular EP catheters from multiple manufacturers for both 3D Mapping & Ablation.
6	Intuitive Graphical representation of catheters & upto 256 Shadows to identify previous position
7	System should offer both Contact & Advanced Non-Contact Mapping for multiple arrhythmias.
8	Should have the capability of Single Beat Non-Contact Mapping to treat Non sustained arrhythmias & create Voltage Map from a SINGLE PVC beat.
9	Intuitive Simultaneous Graphical display with Real time navigation. Should offer uninterrupted view of unlimited number EP catheters and minimum 128 Catheter Electrodes in a three Dimensional Map.
10	Must have the capability to record simultaneously upto 3000 Virtual Unipolar Electrograms & display them as selected by user.
11	Should store permanently at least 10 beats of patient data & have the facility to make a Map from stored ECG in the Review mode.
12	Should have Respiration/gating compensation facility by measuring actual change by impedance & modest patient movement should not affect the procedure.
13	Should have the capability of creating Real time geometry from upto 20 electrodes on the catheter
14	Should incorporate clinically useful features like Dynamic Substrate mapping & Digital Landmark Mapping.
15	Should offer Fly Eye mode to check the electrode signals & impedance.
16	Should offer 1 TB Hard drive with separate partition of 400 GB of patient data storage
17	Should offer option of doing paediatric cases as well on the 3D system.
18	Should offer feature of simultaneous Real time and review Options.
19	Should be able to display clearly areas of slow conductions
20	Should quickly identify areas of micro-reentry.
21	While doing complex fractionated electrogram (CFE) mapping system should allow user to define data collection interval from 1-8 seconds.
22	3D system should be able to integrate with all the equipments in the cath lab including wide range of Recording system, Generators (including Cryo) and Intracardiac ultrasound machine (ICE)

23	3D System should have a minimum of 2 KHz sampling rate for best signal quality.	
24	Offered model should have European CE with 4 digit notified body no. /USFDA approved certificate to be provided	
25	Suitable UPS for PC	
SI No	BOQ	Qty
1	3D Mapping System , as specified	1No.
2	PC	1No.
3	UPS	1No.

Item 11:**OCT & FFR Integrated System**

1	The system should utilize FFR & OCT in single console
2	The system should have wireless FFR set up in one or multiple labs
3	The system should switch FFR & OCT modalities in one touch
A	The Optical Coherence Tomography (OCT) System for Integrated system
1	The system should have an imaging engine that is based on the fiber optic technology.
2	It should utilize catheter that emit near infra-red light to produce high resolution real time images.
3	Should have two monitors (17" and 19") plus remote video output for multiple sightlines.
4	The system should have an integrated drive-motor and Optical Controller (DOC).
5	Should have an isolation transformer.
6	Should have a computer, a keyboard, and a mouse.
7	CD/DVD RW dual player DVD RAM drive for faster image management.
B	The system should allow the user to:
1	Acquire, save and subsequently retrieve images for review.
2	Allow to acquire and review images in L-Mode (lateral view).
3	Overlay color maps to optimize contrast resolution.
4	Enlarge a defined area of interest (zoom).
5	Make measurements and calculations of % Area stenosis
6	Make measurement and calculations of % Diameter stenosis
7	Add text annotations.
8	Play back and edit images with a full range of playback and editing capabilities.
9	Export still images and movies in raw OCT format or in standard AVI, TIFF, JPEG, BMP, or DICOM formats.
10	Import OCT format images and review and edit them with full OCT review and edit capability.
11	Perform basic file management functions.
C	The imaging Parameters of the system should be:
1	Maximum frame rate: 100 fps

2	Nominal pullback speed of 20mm/sec
3	No. of lines per frame: 500
4	Scan diameter:10 mm
5	Axial Resolution: 15 microns
D	FFR (Fractional Flow Reserve) Measurement System specifications for Integrated System
1	Console to determine FFR with sensor based wire able to assess Arterial Pressure through Cath Lab transducer system.
2	Should communicate with PC.
3	Should be compatible with printer.
4	Should be able to asses distal Pressure through device.
5	Display both real time pressure and mean pressure values.
6	Should give Graphical presentation of pressure waves.
7	Screen window should display real time FFR in both numerical and graphical form.
8	Should be capable of reading temperature readings in the range of 15-42.
9	Should be able to measure pressure in a range of - 30 to 300 mm Hg
10	Should be operator friendly, guide steps to follow for procedure.
11	Should have a frequency response of 0-25Hz
12	Allows different beat settings in accordance with the cath lab system.
13	Should have memory to save and record the data
14	Allows analysis of recorded data through software.
E	Device (Wire with Sensor element to determine Pressure/Temperature) Consumable
1	Should be .014" guide wire
2	Should preferably have hydrophilic coating.
3	Should have continuous tapered core design.
4	Should have a radio opaque tip.
5	Should have European CE with 4 digit notifying body no./ USFDA Approved; certificate to be provided.

Item 12:**Rotablator machine**

1	Percutaneous rotational coronary angioplasty with adjunctive balloon angioplasty.
2	To perform Highly Calcific Lesions and diffused disease.
3	220-240 V A.C Voltage with the frequency of 50-60 Hz
4	Multiple Rotalink Catheters of varying sizes and with a single Rotalink Advancer for easier more effective debulking
5	Rotational speed of 0-2,50,000 rpm
6	Console compatibility with Dyna Glide system.
7	Diamond coated elliptical burr with sizes 1.25mm,1.5 mm,1.75mm,2.00mm and 2.25 mm,2.38mm and 2.5 mm and with Catheter Length of 135 cm in length.
8	Compatibility with) .014(tip)/.009" Rota wire with 325 cm in length and Floppy, Standard and Extra Support System.
9	Approval International standards agency US FDA/European CE

Item 13:**Tilt Table (Motorised)**

1	Table should have electric height adjustment control via remote from 46 to 84 cm
2	It should have electric tilting control via remote.
3	Both control can be adjust by two function hand remote.
4	Table should tilt full 90 degree
5	tilt tables motor should have 12- 14 mm/sec speed at unloaded and 6 -7 mm/sec speed at full load.
6	It should have Battery Back-Up to bring the patient down in case of power failure
7	It should have facility of lowers to wheelchair height
8	It should have good quality large braking castors
9	It should indicate tilt angle.
10	Table should have minimum 200 kg weight bearing capacity of patient.
11	Table top should have minimum 61cm wide x 198cm long x 80cm high
12	Table should have minimum Three fixation belts:- Thoracic, Pelvic, Knee
13	Table should have work table attachment.
14	Should be USFDA or European CE certified.

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.

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:

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

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

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

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

6. Warranty clause

7. Payment terms

8. Paying authority

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

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

Date: _____

Place: _____

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

Annual CM Contract No. _____

dated _____

Between

(Address of Head of Hospital)

And

(Name & Address of the Supplier)

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

In continuation to the above referred contract

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 [3 x (4a+4b+4c+4d+4e)]
			1 st	2 nd	3 rd	4 th	5 th	
			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 _____

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

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

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

27	The Principal Prof. Samir Chandra Ghosh Roy North Bengal Medical College, Darjeeling Thiknikata, India, Siliguri, Darjeeling West Bengal 734012 Phone: 098320 17967 Email: sgroy53@gmail.com	NBMC- Darjeeling	West Bengal	KOLKATA	KOLKATA
28	The Dean Govt. Medical College, Jhansi Public Relation Officer Maharani Laxmi Bai Medical College, Hospital Jhansi Phone:- 0510-2321446 Email: principalmcjhs@gmail.com,clmlmcj@gmail.com	GMC-Jhansi	Uttar Pradesh	DELHI AIR CARGO	ICD, TUGHLAKABAD

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