

# **NATIONAL TENDER ENQUIRY DOCUMENT**

**FOR PURCHASE OF MEDICAL EQUIPMENT**

**FOR & ON BEHALF OF**

**Safdarjung Hospital, New Delhi**

**On E-Tender Basis**

**HSCC/SJH/Medical Equipment/2015/25 Dated 23/12/2016**

**BY**



**HSCC (INDIA) LTD**

**(A GOVERNMENT OF INDIA ENTERPRISE)**

**Plot No. 6-A, Block-E, Sector-1, NOIDA (U.P.) - 201 301**

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**SECTION- I**

**NOTICE INVITING TENDERS (NIT)**  
**For NATIONAL TENDER ENQUIRY DOCUMENT**  
**HSCC (INDIA) LTD**  
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**SAFDARJUNGHOSPITAL & VMMC, NEW DELHI**  
**GOVT OF INDIA**  
**MINISTRY OF HEALTH & FAMILY WELFARE**

**Tender Enquiry No.: HSCC/SJH/Medical Equipment/2015/25**

**Dated 23.12.2016**

**NOTICE INVITING TENDERS (NIT) - On E-TENDER BASIS**

Medical Superintendent, Safdarjung Hospital & VMMC, New Delhi under Ministry of Health & Family Welfare, Govt. of India through their Consultants HSCC (India) Ltd. invites **On-line bids** from eligible bidders, in single stage two bid system for supply, installation, testing, commissioning & handing-over of various **Medical Equipment for New Emergency Block & Super-Specialty Block at Safdarjung Hospital & VMMC, New Delhi:**

<b>S. No.</b>	<b>Item</b>	<b>Qty./Requirements</b>	<b>EMD (INR)</b>
1	Dual Head Gamma Camera	1 no. for Radio-Nuclear Lab. in Super-Specialty Block	10,00,000.00
2	Positron Emission Tomography (PET/CT)	1 no. for Radio-Nuclear Lab. in Super-Specialty Block	21,00,000.00
3	Intra-operative Colour Doppler	1 no. for Urology in Super-Specialty Block	90,000.00
4	Holter Monitoring System	2 no. for Cardiology in Super-Specialty Block	40,000.00
5	Spine Operation Table	1 no. for Orthopedics in Emergency Block	2,50,000.00
6	Cutting Instruments Sets	6 sets for OTs in Emergency Block	36,000.00
7	General Surgery Instruments Sets	6 sets for OTs in Emergency Block	36,000.00
8	Laparoscopic Surgical Instruments	6 sets for OTs in Emergency Block	36,000.00
9	CTVS Surgical Instruments	6 sets for OTs in Super-Specialty Block	7,20,000.00
10	Blood Gas Analyzer	3 nos. for CTVS in Super-Specialty Block	46,000.00
11	High End Colour Doppler USG with Biopsy	2 no. for Radiology in Emergency Block	3,20,000.00

The bidders are required to be registered at HSCC e-tender portal [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC). Please log on to [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC) only for downloading bid document and for participation through **E-tendering basis**. For submission and other details please refer HSCC e-tender portal [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC). For submission of the bids, the bidders are required to have Digital Signature Certificate (DSC) from the authorized Certifying Authorities.

Complete set of Bid Documents has been made available at E-Tender portal [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC), [www.hscccltd.com](http://www.hscccltd.com) for downloading from **24.12.2016 to 16.01.2017**. Prospective bidders are advised to regularly scan through HSCC E-tender portal [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC), as corrigendum/modification/amendments, if any, will be notified on this portal only and no separate advertisement will be made for this.

(2) **Tender No.: HSCC/SJH/Medical Equipment/2015/25**

**Dated 23.12.2016**

Sl. No.	Description	Schedule
i.	Dates of sale of tender enquiry documents	<b>24.12.2016 to 16.01.2017 10.00 hrs to 1400 hrs IST</b>
ii.	Place of sale of Tender Enquiry Documents	HSCC (India) Ltd, Plot No. 6-A, Block-E, Sector-1, Noida (U.P.)- 201301
iii.	Cost of the Tender Enquiry Document	INR 3, 000/-
iv.	Pre Tender Meeting Date & Time	<b>03.1.2017, 14.30 hrs. IST</b>
v.	Pre Tender Meeting Venue	<b>Medical Superintendent Office, Conference Room, Safdarjung Hospital, New Delhi</b>
vi.	Closing date & time for receipt of Tender	<b>16.01.2017, 1430 hrs IST</b>
vii.	Time and date of opening of Techno – Commercial tenders	<b>16.01.2017, 1500 hrs IST</b>
viii.	Venue of Opening of Techno Commercial Tender	Same as 2 (ii)

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

3. The prospective bidders who have not registered can register with E-procurement system of NIC by paying necessary registration charges. The bidders may prepare a banker cheque/Draft in favour of HSCC (India) Ltd. Office at Noida, payable at Noida/Delhi and deposit it. In order to submit the bids electronically bidders are required to have type-II Digital Signature Certificate. Digital Signature can be obtained from any of the certifying agency.

**The tender shall be submitted all the necessary documents and in physical form (with respect to few documents as mentioned in the SIT) in parts/covers as mentioned below:**

Part-I In Original Offline (In separate Envelope) & Copy Online

- (i) Tender Fee and EMD
- (ii) Affidavit as per Section XIX

- (iii) Performance statement along with required PO copies and its corresponding end user"s satisfactory performance certificate as per section IX.
- (iv) Technical compliance for the quoted goods vis-à-vis the Technical specifications and with all related brochures/catalogues in the tender enquiry, technical bid

Part-II Online

- (i) Tender Fee and EMD
- (ii) Power of Attorney
- (iii) Tender Form as per section X.
- (iv) Manufacturers Authorization Form
- (v) Affidavit as per Section XIX
- (vi) Proforma A
- (vii) Performance statement along with required PO copies and its corresponding end user"s satisfactory performance certificate as per section IX.
- (viii) Technical compliance for the quoted goods vis-à-vis the Technical specifications
- (ix) Name, address and details of account with respect to bidder and/or beneficiary of L/C. Copy of PAN. Certificate of Incorporation/Declaration being a proprietary firm.
- (x) Audited Annual report of last 3 completed financial years (Balance sheet and Profit & Loss Account). Certificate of Regn. Issued by Directorate of Industries/NSIC, if SSI unit.
- (xi) Quality Control Requirements as per Section VIII

Price Bid (Only online).

- Price Schedule
- CMC Price Schedule
- Turnkey Price Schedule

4. All prospective tenderers may attend the Pre Tender meeting. For all the above tender IDs, Pre-bid meeting shall be held as mentioned above.

5. To participate in the submission against the tender, it is mandatory for the Applicants to get digital signature and get themselves registered with e-tendering system.

6. Complete set of Bid Documents has been made available at E-Tender portal [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC), [www.hsccltd.com](http://www.hsccltd.com) for downloading. The cost the Tender Enquiry Document is **INR 3,000/ which is payable in the form of Cash/Demand Draft** drawn on a scheduled bank in India in favour of **HSCC (India) Ltd.** payable at Delhi/Noida.. Tenderer may download the tender enquiry documents from the website and submit its tender online after logging in to their user ID. The bidders are required to be registered at HSCC e-tender portal [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC). Please log on to [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC) only for uploading its tender on-line for participation through **E-Tendering basis**. For submission and other details, please refer HSCC e-tender portal [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC).

7. Tenderers shall ensure that their tenders, complete in all respects, are submitted online and desired hard copies in original dropped in the Tender Box located at HSCC (India) Ltd., E-6A, Sector-1, Noida, U.P.-201301 on or before the closing date and time indicated above, failing which the tenders will be treated as late and rejected.

8. In the event of any of the above mentioned dates being declared as a holiday /closed day for the purchase organisation, the physical form of tenders will be received/opened on the next

working day at the appointed time. Bidders are requested to regularly visit website [www.tenderwizard.com/HSCC](http://www.tenderwizard.com/HSCC) & [www.hsccltd.com](http://www.hsccltd.com) for corrigendum/amendments etc., if any, as these there no separate advertisement for them.

9. Purchaser/HSCC reserves the right to annul the tendering process at any stage without assigning any reason thereof.

**Medical Superintendent  
SafdarjungHospital,  
New Delhi.**

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

### A. PREAMBLE

#### 1. Definitions and Abbreviations

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

#### 1.2. Definitions:

- (i) "Purchaser" means the organization purchasing goods and services as incorporated in the Tender Enquiry document, i.e. Medical Superintendent, SafdarjungHospital & VMMC, New Delhi.
- (ii) "Tender" means Bids / Quotation / Tender received from a Firm / Tenderer / Bidder.
- (iii) "Tenderer" means Bidder/ the Individual or Firm submitting Bids / Quotation / Tender
- (iii) "Supplier" means the individual or the firm supplying the goods and services as incorporated in the contract.
- (iv) "Goods" means the instruments, machinery, equipment, medical equipment, etc. which the supplier is required to supply to the purchaser under the contract.
- (v) "Services" means services allied and incidental to the supply of goods, such as transportation, installation, commissioning, provision of technical assistance, training, after sales service, maintenance service and other such obligations of the supplier covered under the contract.
- (vi) "Earnest Money Deposit" (EMD) means Bid Security/ monetary or financial guarantee to be furnished by a tenderer along with its tender.
- (vii) "Contract" means the written agreement entered into between the purchaser and/or consignee and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.
- (viii) "Performance Security" means monetary or financial guarantee to be furnished by the successful tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
- (ix) "Consignee" means SafdarjungHospital, New Delhi/person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of despatch to another person as provided in the Contract then that "another" person is the consignee, also known as ultimate consignee.
- (x) "Specification" means the document/standard that prescribes the requirement with which goods or service has to conform.
- (xi) "Inspection" means activities such as measuring, examining, testing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement to determine conformity.
- (xii) "Day" means calendar day.

#### 1.3 Abbreviations:

- (i) "TE Document" means Tender Enquiry Document
- (ii) "NIT" means Notice Inviting Tenders.
- (iii) "GIT" means General Instructions to Tenderers
- (iv) "SIT" means Special Instructions to Tenderers

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

## 2. Introduction

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

instructions etc. incorporated in these TE documents may result in rejection of its tender.

### **3. Availability of Funds**

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

### **4. Language of Tender**

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

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

### **5. Eligible Tenderers**

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

### **6. Eligible Goods and Services**

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

### **7. Tendering Expense**

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

## **B. TENDER ENQUIRY DOCUMENTS**

### **8. Content of Tender Enquiry Documents**

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

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

- Section XI – Price Schedules
- Section XII – Questionnaire
- Section XIII – Bank Guarantee Form for EMD
- Section XIV – Manufacturer's Authorisation Form
- Section XV – Bank Guarantee Form for Performance Security/CMC Security
- Section XVI – Contract Forms A & B
- Section XVII – Proforma of Consignee Receipt Certificate
- Section XVIII – Proforma of Final Acceptance Certificate by the consignee
- Section XIX – Affidavit
- Section XX – Check List
- Section XXI – Consignee

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

### **9. Amendments to TE documents**

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

9.2 Such an amendment will be notified in the referred website only.

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

### **10. Clarification of TE documents**

10.1 A tenderer requiring any clarification or elucidation on any issue of the TE documents may take up the same with the purchaser **in writing on or before the due date of pre-bid meeting**. No queries will be entertained later on. The purchaser will respond in writing to such request as per the schedule.

## **C. PREPARATION OF TENDERS**

### **11. Documents Comprising the Tender**

11.1 The bids shall be submitted online and in physical form in three parts/covers as mentioned below:

(i) Tender Fee, EMD, Pre-qualification as per Tender Terms and referred in checklist at section XIX and as mentioned in para A below.

(ii) Technical Bid

(iii) Price Bid (Only online).

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

**A) Techno – Commercial Tender (Un priced Tender)**

- i) Earnest money furnished in accordance with GIT clause 19.1 alternatively, documentary evidence as per GIT clause 19.2 for claiming exemption from payment of earnest money.
- ii) Tender Form as per Section X (without indicating any prices).
- iii) Documentary evidence, as necessary in terms of clauses 5 and 17 establishing that the tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.
- iv) Tenderer/Agent who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorisation Form.
- v) Power of Attorney in favour of signatory of TE documents.
- vi) Documents and relevant details to establish in accordance with GIT clause 18 that the goods and the allied services to be supplied by the tenderer conform to the requirement of the TE documents.
- vii) Performance Statement as per section IX along with relevant copies of orders and end users' satisfaction certificate/Installation Reports.
- viii) Certificate of Incorporation in the country of origin.

**B) Price Tender:**

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

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

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

**Note:**

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

- 11.2 A person signing (manually or digitally) the tender form or any documents forming part of the contract on 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 fulfil any of the above requirements and/or gives evasive information/reply against any such requirement, shall be liable to be ignored and rejected.
- 11.4 Tender sent by fax/telex/cable/electronically shall be ignored.

**12. Tender currencies**

- 12.1 The tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees.
- 12.2 For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only if such services are to be performed /undertaken in India. Commission for Indian Agent,

if any and if payable shall be indicated in the space provided for in the price schedule and will be payable in Indian Rupees only.

- 12.3 Tenders, where prices are quoted in any other way shall be treated as non-responsive and rejected.

### **13 Tender Prices**

- 13.1 The Tenderer shall indicate on the Price Schedule provided under Section XI all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a tenderer, same should be clarified as "NA" by the tenderer.

- 13.2 If there is more than one schedule in the List of Requirements, the tenderer has the option to submit its quotation for any one or more schedules and, also, to offer special discount for combined schedules. However, while quoting for a schedule, the tenderer shall quote for the complete requirement of goods and services as specified in that particular schedule.

- 13.3 The quoted prices for goods offered from within India and that for goods offered from abroad are to be indicated separately in the applicable Price Schedules attached under Section XI. Bidders must quote the prevailing taxes and duties as applicable.

- 13.4 While filling up the columns of the Price Schedule, the following aspects should be noted for compliance:

- 13.4.1 For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:

- a) the price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, CST VAT, CENVAT, Custom Duty, Excise Duty etc. already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;
- b) any sales or other taxes and any duties including excise duty, which will be payable on the goods in India if the contract is awarded;
- c) charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage) would be borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;
- d) the price of Incidental Services, as mentioned in List of Requirements and Price Schedule;
- e) the prices of Turnkey ( if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
- f) the price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

- 13.4.2 For goods offered from abroad, the prices in the corresponding price schedule shall be entered separately in the following manner:

- a) The price of goods quoted FOB/FCA port of shipment, as indicated in the List of Requirements and Price Schedule;
- b) the price of goods quoted CIP (name port of destination) in India as indicated in the List of Requirements, Price Schedule and Consignee List;
- c) the charges for Insurance (local transportation and storage) would be extended and borne by the Supplier from ware house to the consignee site for a period including 3

- months beyond date of delivery. Other local costs and Incidental costs, as specified in the List of Requirements and Price Schedule;
- d) the charges for Incidental Services, as in the List of Requirements and Price Schedule;
  - e) the prices of Turnkey ( if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
  - f) the Total tender price of goods quoted CIP basis at consignee site in India as indicated in the List of Requirements, Price Schedule and Consignee List
  - g) the price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.5 Additional information and instruction on Duties and Taxes:

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

13.5.2 Excise Duty:

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

13.5.3 Sales Tax:

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

13.5.4 Octroi Duty and Local Duties & Taxes:

Normally, goods to be supplied to government departments against government contracts are exempted from levy of town duty, Octroi duty, terminal tax and other levies of local bodies. However, on some occasions, the local bodies (like town body, municipal body etc.) as per their regulations allow such exemptions only on production of certificate to this effect from the concerned government department. Keeping this in view, the supplier shall ensure that the stores to be supplied by the supplier against the

contract placed by the purchaser are exempted from levy of any such duty or tax and, wherever necessary, obtain the exemption certificate from the purchaser.

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 reimburse the Customs duty wherever applicable. Supplier shall be responsible for customs clearances of the consignments.

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

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

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

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

### 14. Indian Agent

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

- a) The complete name and address of the Indian Agent and its permanent income tax account number as allotted by the Indian Income Tax authority.
- b) The details of the services to be rendered by the agent for the subject requirement.
- c) Details of Service outlets in India, nearest to the consignee(s), to render services during Warranty and CMC period.
- d) Copy of the agreement between Indian Agent & their principal detailing the scope of work/services during warranty & after sales periods.

### 15. Firm Price

15.1 Unless otherwise specified in the SIT, prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account.

15.2 However, as regards taxes and duties, if any, chargeable on the goods and payable, the conditions stipulated in GIT clause 13 will apply.

### 16. Alternative Tenders

16.1 Alternative Tenders are not permitted.

16.2 However the Tenderers can quote alternate models meeting the tender specifications of same manufacturer with single EMD.



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

- 17.1 Pursuant to GIT clause 11, the tenderer shall furnish, as part of its tender, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its tender is accepted.
- 17.2 The documentary evidence needed to establish the tenderer's qualifications shall fulfil the following requirements:
- a) in case the tenderer offers to supply goods, which are manufactured by some other firm, the tenderer has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The tenderer shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XIV in this document.
  - b) the tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.
  - c) in case the tenderer is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.

**18. Documents establishing Good's Conformity to TE document.**

- 18.1 The tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified by the purchaser in the TE documents. For this purpose the tenderer shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the TE documents to establish technical responsiveness of the goods and services offered in its tender.
- 18.2 In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the tenderer, the tenderer shall list out the same in a chart form without ambiguity and provide the same along with its tender.
- 18.3 If a tenderer furnishes wrong and/or 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 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 as per GIT clause 12.2. The earnest money shall be furnished in one of the following forms:
- i) Account Payee Demand Draft
  - ii) Banker's cheque and
  - iii) Bank Guarantee
  - iv) FDR
- 19.4 The demand draft or banker's cheque shall be drawn on any commercial bank in India or country of the tenderer, in favour of the "**HSCC (India) Ltd**" payable at New Delhi/Noida. In case of bank guarantee, the same is to be provided from any commercial bank in India or country of the tenderer as per the format specified under Section XIII in these documents.
- 19.5 The earnest money shall be valid for a period of forty-five (45) days beyond the validity period of the tender. As validity period of Tender as per Clause 20 of GIT is 120 days, the EMD shall be valid for 165 days from the **original last date** for submission of the tender/bid.
- 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.

## **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, however, may not agree to extend its tender validity without forfeiting its EMD.
- 20.3 In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for the purchaser, the tender validity shall automatically be extended up to the next working day.

## **21. Signing and Sealing of Tender**

- 21.1 The tenderers shall submit their tenders as per the instructions contained in GIT Clause 11.
- 21.2 The original and other copies of the tender shall either be typed or written in indelible ink and the same shall be signed by the tenderer or by a person(s) who has been duly authorized to bind the tenderer to the contract. The letter of authorization shall be by a written power of attorney, which shall also be furnished along with the tender.
- 21.3 The tender shall be duly signed at the appropriate places as indicated in the TE documents and all other pages of the tender including printed literature, if any shall be initialled by the same person(s) signing the tender. The tender shall not contain any erasure or overwriting, except as necessary to correct any error made by the tenderer and, if there is any such correction; the same shall be initialled by the person(s) signing the tender.

## **D. SUBMISSION OF TENDERS**

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

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

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

Bidders are requested not to submit the hard copy of Price Bid along with the physical form of tender. Uploading of the price bid in prequalification bid or technical bid will result in rejection of the tender.

Unless otherwise specified, the tenderers are to submit its tender online and deposit the physical form of tenders in the tender box kept for this purpose at HSCC (India) Ltd., E-6A, Sector-1, Noida-201301, ((UP).

- 22.2 The tenderers must ensure that they deposit their tenders not later than the closing time and date specified for submission of tenders. It is the responsibility of the tenderer to ensure that their Tenders whether sent by post or by courier or by person, are dropped in the Tender Box by the specified clearing date and time. In the event of the specified date for physical submission of tender falls on /is subsequently declared a holiday or closed day for the purchaser, the tenders will be received up to the appointed time on the next working day.

### **23. Late Tender**

- 23.1 A tender, which is received after the specified date and time for receipt of tenders will be treated as "late" tender and will be ignored.

### **24. Alteration and Withdrawal of Tender**

- 24.1 The tenderer, after submitting its tender, is permitted to alter / modify its tender so long as such alterations / modifications are received duly signed, sealed and marked like the original tender, within the deadline for submission of tenders. Alterations / modifications to tenders received after the prescribed deadline will not be considered.
- 24.2 No tender should be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a tenderer withdraws the tender during this period, it will result in forfeiture of the earnest money furnished by the tenderer in its tender.

## **E. TENDER OPENING**

### **25. Opening of Tenders**

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

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

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

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

- 25.3 The **Techno - Commercial Tenders** are to be opened in the first instance, at the prescribed time and date as indicated in NIT. These Tenders shall be scrutinized and evaluated by the competent committee/ authority with reference to parameters prescribed in the TE document. During the Techno - Commercial Tender opening, the tender opening official(s) will read the salient features of the tenders like brief description of the goods offered, delivery period, Earnest Money Deposit and any other special features of the tenders, as deemed fit by the tender opening official(s).

Thereafter, in the second stage, the Price Tenders of only the Techno - Commercially acceptable offers (as decided in the first stage) shall be opened for further scrutiny and evaluation on a date notified after the evaluation of the Techno – Commercial tender. The prices, special discount if any of the goods offered etc., as deemed fit by tender opening official(s) will be read out.

## **F. SCRUTINY AND EVALUATION OF TENDERS**

### **26. Basic Principle**

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

### **27. Scrutiny of Tenders**

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

27.2 Purchaser will determine the responsiveness of each Tender to the TE Document without recourse to extrinsic evidence.

27.3 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.

27.4 The following are some of the important aspects, for which a tender shall be declared non – responsive and will be summarily ignored;

- (i) Tender form as per Section IX (signed and stamped) not enclosed
- (ii) Tender is unsigned.
- (iii) Tender validity is shorter than the required period.
- (iv) Required EMD (Amount, validity etc.)/ exemption documents have not been provided.
- (v) Tenderer has quoted for goods manufactured by other manufacturer(s) without the required Manufacturer's Authorisation Form as per Section XIV.
- (vi) Tenderer has not agreed to give the required performance security.
- (vii) Goods offered are not meeting the tender enquiry specification.
- (viii) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.
- (ix) Poor/ unsatisfactory past performance.
- (x) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
- (xi) Tenderer is not eligible as per GIT Clauses 5.1 & 17.1.
- (xii) Tenderer has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.

27.5 The following are some of the important aspects, for which a tender shall be declared nonresponsive during the evaluation and will be ignored;

- (i) The bidder has submitted hard copy of financial bid (only online submission price bids are allowed).
- (ii) Tender validity is shorter than the required period.

- (iii) Required EMD (Amount, validity etc.)/ exemption documents have not been provided.
- (iv) Tenderer has quoted for goods manufactured by other manufacturer(s) without the required Manufacturer's Authorisation Form as per Section XIV.
- (v) 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.
- (vi) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.
- (vii) Poor/ unsatisfactory past performance.
- (viii) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
- (ix) Tenderer is not eligible as per GIT Clauses 5& 17.1.
- (x) Tenderer has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.
- (xi) Tenderer has not agreed for the delivery terms and delivery schedule.

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

- 28.1 If during the preliminary examination, the purchaser find any minor informality and/or irregularity and/or non-conformity in a tender, the purchaser will convey its observation on such 'minor' issues to the tenderer by registered/speed post etc. asking the tenderer to respond by a specified date. If the tenderer does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that tender will be liable to be ignored.

## **29 Discrepancies in Prices**

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

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

- 30.1 In case any discrepancy is observed between the text etc. of the original copy and that in the other copies of the same tender set, the text etc. of the original copy shall prevail. Here also, the purchaser will convey its observation suitably to the tenderer by register / speed post and, if the tenderer does not accept the purchaser's observation, that tender will be liable to be ignored.

**31. Qualification Criteria**

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

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

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

**33. Equipment-wise Evaluation**

33.1 The tenders will be evaluated and compared separately for each equipment. 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 – List of Requirements, the comparison of the responsive tenders shall be carried out on Delivery on DDP basis at Consignee site basis, inclusive of applicable taxes, duties, incidental services. The quoted turnkey prices and CMC prices will also be added for comparison/ranking purpose for evaluation.

**35. Additional Factors and Parameters for Evaluation & 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, Customs Duties, Service Tax, Works Contract Tax etc which will be contractually payable (to the tenderer), on the goods if a contract is awarded on the tenderer; and
- ii) in the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the tenderer) on the goods if the contract is awarded on the tenderer.

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

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

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

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

List of Requirements, then, such determination will be made separately for each schedule.

- 36.2 The above-mentioned determination will, 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 fifty (50) per cent, the quantity of goods and services mentioned in the schedule (s) in the "List of Requirements" (rounded of to next whole number) without any change in the unit price and other terms & conditions quoted by the tenderer.

- 40.2 If the quantity has not been increased at the time of the awarding the contract, the purchaser reserves the right to increase by up to fifty (50) per cent, the quantity of goods and services mentioned in the contract (rounded of to next whole number) without any change in the unit price and other terms & conditions mentioned in the contract, during the currency of the contract after one year from the Date of Notification of Award.

Further, Purchaser reserves the rights to delete any of the tendered items without assigning any reason whatsoever. Purchaser as deemed fit, out of the total tendered quantity for the tendered items may place Notification of Award for the quantity as per the requirements and may defer the balance quantity of the item(s) to be supplied later.



**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/by fax/ telex/cable (to be confirmed by registered / speed post) that its tender for goods & services, which have been selected by the purchaser, has been accepted, also briefly indicating therein the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful tenderer must furnish to the purchaser the required performance security within thirty days from the date of dispatch of this notification, failing which the EMD will 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 XV) duly completed and signed, in duplicate, to the successful tenderer by registered / speed post.

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

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

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

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

**44. Return of E M D**

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

**45. Publication of Tender Result**

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

**46. Corrupt or Fraudulent Practices**

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

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

(i) “corrupt practice” means the offering, giving, receiving or soliciting of 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	27
B	8 to 10	TE documents	No Change	27
C	11 to 21	Preparation of Tenders	No Change	27
D	22 to 24	Submission of Tenders	No Change	27
E	25	Tender Opening	No Change	27
F	26 to 27	Scrutiny and Evaluation of Tenders	No Change	27
G	36 to 46	Award of Contract	No Change	27

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/substitute/supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below: In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

**Submission of Tenders**

(i) All the necessary documents as prescribed in the NIT shall be prepared and scanned in different files (in PDF or JPEG format as prescribed) and uploaded for on-line submission of Proposal. However, physical documents as per NIT to be submitted in “**ORIGINAL**” to HSCC (India) Ltd. before the prescribed date & time for submission of physical tender restricted to the following documents only.

- a) Demand Draft towards Tender Fee in favour of HSCC (India) Ltd.
- b) EMD in the prescribed format in favour of HSCC (India) Ltd.
- c) Technical Data Sheet and original technical literature/ Brochure (if any)
- d) Affidavit as per Section XIX

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

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

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

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

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

**SECTION - IV**  
**GENERAL CONDITIONS OF CONTRACT (GCC)**  
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## **GENERAL CONDITIONS OF CONTRACT (GCC)**

### **1. Application**

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

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

### **2. Use of contract documents and information**

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

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

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

### **3. Patent Rights**

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

### **4. Country of Origin**

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

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

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

### **5. Performance Security**

5.1 Within fifteen (15) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum 66 months (as applicable warranty period of 5 years) 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:
- a) 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 with out 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 twenty-one (21) 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.

For Radiology, the equipment viz. CT Scan, MRI, Digital Radiography, Digital Radio Fluoroscopy, Ultrasound, X-Ray Machines etc. Should be DICOM 3.0 enabled & complied with HL7 (Health Level 7) Standards. DICOM 3.0 provides reliable protocols for integration of image data between imaging, non-imaging modalities, devices & systems.

For Laboratory Equipment, equipment should be ASTM (American Society for Testing & Materials) compliant for integration of System Software with Lab. Records & Database.

Above standards are required for interfacing of equipment with PACS (Picture Archiving & Communication System) & HMIS (Hospital Management & Information System) during the computerization of the Hospital.

## 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-g 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 pre-dispatch inspections, inspections and, also the identity of the officials to be deputed for this purpose. The cost towards the transportation, boarding & lodging will be borne by the purchaser and/or its nominated representative(s).

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

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

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

8.5 If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and

complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the purchaser under the terms & conditions of the contract.

- 8.6 The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.
- 8.7 Goods accepted by the purchaser/consignee and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause 15.
- 8.8 Principal/ Foreign supplier shall also have the equipment inspected by recognised/reputed agency like SGS, Lloyd, Bureau Veritas, TUV prior to despatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.
- 8.9 Third Party Inspection to include only Physical & Relevant records Inspection of the Ordered Goods. However, Dispatch Clearance Certificate is issued without prejudice to the Purchaser's right to accept/reject the Ordered Goods after it's arrival at site/destination, if not found in accordance with the Purchase Order during the installation and testing at site and during the performance guarantee period. This dispatch clearance certificate will not absolve manufacturer from his responsibility to ensure that the Ordered Goods supplied are totally in accordance with the Purchase Order/Notification of Award.
- 8.10. The stores (both Indian & Import origin goods) should be dispatched only after the equipment inspected by recognized/reputed agency like SGS, Lloyd, TUV & Bureau Veritas prior to dispatch at the supplier's cost and furnish necessary Certificate from the said agency in support of their claim.

To enable HSCC to issue Dispatch Clearance Certificate, supplier/manufacture is to furnish following documents:

1. Copy of supplier's invoice showing contract number, goods description, quantity, unit price & total amount.
2. Country of Origin Certificate
3. Quality & Quantity Certificate
4. Packing List with Complete contents.
5. Internal Factory Inspection Report
6. Warranty Certificate
7. Inspection certificate for the dispatched equipments issued by recognized/reputed agency like SGS, Lloyd, TUV & Bureau Veritas, prior to dispatch.

All such Certificates/Reports as mentioned above shall be addressed as:

**Medical Superintendent Safdarjung Hospital & VMMC, New Delhi.  
through HSCC (I) Ltd., Noida**

After scrutiny, if the documents found in order, **Dispatch Clearance Certificate** shall be issued to the supplier.

**No goods (both Indians & Import origin goods) shall be dispatched before issue of Dispatch Clearance Certificate by HSCC.**



**9. Terms of Delivery**

9.1 Goods shall be delivered by the supplier in accordance with the terms of delivery specified in 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 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 be got extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.

## **12. Spare parts**

- 12.1 If specified in the List of Requirements and in the resultant contract, the supplier shall supply/provide any or all of the following materials, information etc. pertaining to spare parts manufactured and/or supplied by the supplier:
- a) The spare parts as selected by the Purchaser/Consignee to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and
  - b) In case the production of the spare parts is discontinued:
    - i) Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and
    - ii) Immediately following such discontinuation, providing the Purchaser/Consignee, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/Consignee.
- 12.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the goods so that the same are supplied to the Purchaser/Consignee promptly on receipt of order from the Purchaser/Consignee.

## **13. Incidental services**

- 13.1 Subject to the stipulation, if any, in the SCC (Section – V), List of Requirements (Section – VI) and the Technical Specification (Section – VII), the supplier shall be required to perform the following services.
- i) Installation & commissioning, Supervision and Demonstration of the goods
  - ii) Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
  - iii) Training of Consignee's Doctors, Staff, operators etc. for operating and maintaining the goods
  - iv) Supplying required number of operation & maintenance manual for the goods

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

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

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

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

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

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Consignee Receipt Certificate as per Section XVI in original issued by the authorized representative of the consignee;
- (iii) Two copies of packing list identifying contents of each package;
- (iv) Inspection certificate issued by the nominated Inspection agency, if any.
- (v) Certificate of origin;
- (vi) Insurance Certificate as per GCC Clause 11.
- (vii) Manufacturers/Supplier's warranty certificate & In-house inspection certificate.

B) For goods imported from abroad

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

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Original and four copies of the negotiable clean, on-board Bill of Lading/Airway bill, marked freight pre paid and four copies of non-negotiable Bill of Lading/Airway bill;
- (iii) Four Copies of packing list identifying contents of each package;
- (iv) Insurance Certificate as per GCC Clause 11.
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Inspection Certificate for the despatched equipments issued by recognized/reputed agency like SGS, Lloyd, Bureau Veritas, TUV prior to despatch
- (vii) Manufacturer's own factory inspection report;
- (viii) Certificate of origin
- (ix) Port of Loading;
- (x) Port of Discharge and
- (xi) Expected date of arrival.

## 15. Warranty

15.1 The supplier warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials (*except when the design adopted and / or the material used are as per the Purchaser's/Consignee's specifications*) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.

15.2 The **warranty** shall remain valid for **60 months** from the date of installation & commissioning 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.

- a. No conditional warranty will be acceptable.
- b. Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories and Turnkey work and it will also cover the following:-
  - X-ray and CT tubes and high-tension cables.
  - Helium replacement
  - Any kind of motor.
  - Plastic & Glass Parts against any manufacturing defects.
  - All kind of sensors including oxygen sensors.
  - All kind of coils, probes and transducers
  - All kind of flat panel sensors and cassettes for DR & CR systems and patients handling trolleys etc
  - Printers and imagers including laser and thermal printers with all parts.
  - UPS including the replacement of batteries.
  - Air-conditioners
- c. Replacement and repair will be under taken for the defective goods.
- d. Proper marking has to be made for all spares for identification like printing of installation and repair dates.

- 15.3 In case of any claim arising out of this warranty, the Purchaser/Consignee shall promptly notify the same in writing to the supplier. The period of the warranty will be as per G.C.C clause number 15.2 above irrespective of any other period mentioned elsewhere in the bidding documents.
- 15.4 Upon receipt of such notice, the supplier shall, within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/goods thereafter. The penalty clause for non rectification will be applicable as per tender conditions
- 15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended to a further period of sixty (60) months from the date such rectified / replaced goods starts functioning to the satisfaction of the purchaser.
- 15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.
- 15.7 During Warranty period, the supplier is required to visit at each consignee's site at least once in 3 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 final acceptance of the contracted goods to the purchaser. However, for goods directly imported shall be guided by the INCOTERM.

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

## **21. Terms and Mode of Payment**

### **21.1 Payment Terms**

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

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

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

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

80% payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents:

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

##### **b) On Acceptance:**

Balance 20% payment would be made against 'Final Acceptance Certificate' as per Section XVIII of goods to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise. Final acceptance certificate will be released by the consignee on completion of installation, commissioning, training, successful running of equipment (at least 2-3 weeks) and handing over the equipment to the consignee.

#### **B) Payment for Imported Goods:**

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

##### **a) On Shipment:**

80% of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of documents specified hereunder:

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Original and four copies of the negotiable clean, on-board Bill of Lading/ Airway bill, marked freight pre paid and four copies of non-negotiable Bill of Lading/Airway bill;
- (iii) Four Copies of packing list identifying contents of each package;

- (iv) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent to all concerned as per the contract within 24 hours;
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Inspection certificate issued by the nominated inspection agency, if applicable as per contract;
- (vii) Manufacturer's own factory inspection report and
- (viii) Certificate of origin by the chamber of commerce of the concerned country;
- (ix) Inspection Certificate for the despatched equipments issued by recognized/reputed agency like SGS, Lloyd, TUV & Beauru Varitus, prior to despatch.
- (x) Dispatch Clearance Certificate issued by HSCC.

**b) On Acceptance:**

Balance payment of 20% of net CIP price of goods would be made against 'Final Acceptance Certificate' as per Section XVII to be issued by the consignees through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any. Final acceptance certificate will be released by the consignee on completion of installation, commissioning, training, successful running of equipment (at least 2-3 weeks) and handing over the equipment to the consignee.

- c) **Payment of Incidental Costs** till consignee site & Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) will be paid in Indian Rupees to the Indian Agent on proof of final installation, commission and acceptance of equipment by the consignee.
- d) **Payment of Indian Agency Commission:** Indian Agency commission will be paid to the manufacturer's agent in the local currency for an amount in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation.

**C) Payment of Turnkey, if any:**

Turnkey payment will be made to the manufacturer's agent 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.

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

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

- 21.2 The supplier shall not claim any interest on payments under the contract.
- 21.3 Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time.
- 21.4 Irrevocable & non - transferable LC shall be opened by the respective consignees. However, if the supplier requests specifically to open confirmed LC, the extra charges would be borne by the supplier. If LC is required to be extended and/or amended for reasons not attributable to the purchaser/consignee, the charges thereof shall be borne by the supplier.

- 21.5 The payment shall be made in the currency / currencies authorised in the contract.
- 21.6 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to respective consignees.
- 21.7 While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.
- 21.8 While claiming reimbursement of duties, taxes etc. (like sales tax, excise duty, custom duty) from the Purchaser/Consignee, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Purchaser/Consignee forthwith.
- 21.9 In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:
- (a) The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
  - (b) Delay in supplies, if any, has been regularized.
  - (c) The contract price where it is subject to variation has been finalized.
  - (d) The supplier furnishes the following undertakings:

"I/We, \_\_\_\_\_ certify that I/We have not received back the Inspection Note duly 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/Delay in the supplier's performance**

- 22.1 The supplier shall deliver of 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 on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.

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

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

22.6 Passing of Property:

22.6.1 The property in the goods shall not pass to the purchaser unless and until the goods have been delivered to the consignee in accordance with the conditions of the contract.

22.6.2 Where there is a contract for sale of specific goods and the supplier is bound to do something to the goods for the purpose of putting them into a deliverable state the property does not pass until such thing is done.

22.6.3 Unless otherwise agreed, the goods remain at the supplier's risk until the property therein is transferred to the purchaser.

### **23. Liquidated damages**

23.1 Subject to GCC clause 26, if the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract as per GCC 24.

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

23.2 In the event of delay in submission of Proforma Invoice beyond 7 working days from the date of notification of award, the delay shall be to the account of supplier & Purchaser shall

deduct Liquidated damages, as per clause 23.1. Proforma Invoice should be strictly as per the terms & conditions mentioned in Notification of Award / Tender Conditions.

- 23.3 Proforma Invoice submitted by supplier is found to be deficient, because of which purchaser is unable to open the letter of credit, delay shall be to the account of supplier & purchaser shall deduct liquidated damages as per clause 23.1.

#### **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, acts of the Purchaser/Consignee either in its sovereign or contractual capacity, 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. 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 **Medical Superintendent, Safdarjung Hospital, New Delhi**. The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakhs (Rs. 1,00,000/-)

- 30.3 Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi, India.
- 30.4 Jurisdiction of the court will be from the place where the tender enquiry document has been issued, i.e., New Delhi, India

### 31. **Applicable Law**

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

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

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

### 33. **General/ Miscellaneous Clauses**

- 33.1 Nothing contained in this Contract shall be constructed as establishing or creating between the parties, i.e. the Supplier/its Indian Agent/CMC Provider on the one side and the Purchaser on the other side, a relationship of master and servant or principal and agent.
- 33.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.
- 33.3 The Supplier shall notify the Purchaser/Consignee /the Government of India of any material change would impact on performance of its obligations under this Contract.
- 33.4 Each member/constituent of the Supplier/its Indian Agent/CMC Provider, in case of consortium shall be **jointly and severally liable** to and responsible for all obligations towards the Purchaser/Consignee/Government for performance of contract/services including that of its Associates/Sub Contractors under the Contract.
- 33.5 The Supplier/its Indian Agent/CMC Provider shall at all times, indemnify and keep indemnified the Purchaser/Government of India against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under CMC or the Contract.
- 33.6 The Supplier/its Agent/CMC Provider shall, at all times, indemnify and keep indemnified the Purchaser/Consignee/Government of India against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the supplier/its associate/affiliate etc.
- 33.7 All claims regarding indemnity shall survive the termination or expiry of the contract.

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

- 34.1 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, Customs Duties, Service Tax, Works Contract Tax etc which will be contractually payable (to the tenderer), on the goods if a contract is awarded on the tenderer; and
  - ii) in the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the tenderer) on the goods if the contract is awarded on the tenderer.
- 34.2 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.
- 34.3 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.
- i. In accordance with the above said notification, the participating Micro and Small Enterprises (MSEs) in a tender, quoting price within the band of L1+15% would also be allowed to supply a portion of the requirement by bringing down their price to the L1 price, in a situation where L1 price is from someone other than on 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 L1 price, the 4% quantity earmarked for MSEs owned by SC/ST entrepreneurs will be met from other participating MSEs.
  - ii. 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 on MSE, failing which their tender will be liable to be ignored.

**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.

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

**Part I**

S. No.	Item	Qty./Requirements	EMD (INR)
1	Dual Head Gamma Camera	1 no. for Radio-Nuclear Lab. in Super-Specialty Block	10,00,000.00
2	Positron Emission Tomography (PET/CT)	1 no. for Radio-Nuclear Lab. in Super-Specialty Block	21,00,000.00
3	Intra-operative Colour Doppler	1 no. for Urology in Super-Specialty Block	90,000.00
4	Holter Monitoring System	2 no. for Cardiology in Super-Specialty Block	40,000.00
5	Spine Operation Table	1 no. for Orthopedics in Emergency Block	2,50,000.00
6	Cutting Instruments Sets	6 sets for OTs in Emergency Block	36,000.00
7	General Surgery Instruments Sets	6 sets for OTs in Emergency Block	36,000.00
8	Laparoscopic Surgical Instruments	6 sets for OTs in Emergency Block	36,000.00
9	CTVS Surgical Instruments	6 sets for OTs in Super-Specialty Block	7,20,000.00
10	Blood Gas Analyzer	3 nos. for CTVS in Super-Specialty Block	46,000.00
11	High End Colour Doppler USG with Biopsy	2 no. for Radiology in Emergency Block	3,20,000.00

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

60 days from date of Notification of Award except, for MRI, CT Scan, DR System, DRF System, DSA, Gamma Knife, Gamma Camera, PET CT, Cath Lab. for which the delivery period will be 90 days from date of Notification of Award. The date of delivery will be the date of delivery at consignee site (Tenderers may quote earliest delivery period).

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

60 days from date of opening of L/C except, for MRI, CT Scan, DR System, DRF System, DSA, Gamma Knife, Gamma Camera, PET CT, Cath Lab. for which the delivery period will be 90 days from date of opening of L/C. The date of delivery will be the date of Bill of Lading/Airway Bill. (Tenderers may quote earliest delivery period).

**c)** Installation & commissioning within 15 days of receipt of goods at site except for MRI, CT Scan, DR System, DRF System, DSA, Gamma Knife, Gamma Camera, PET CT, Cath Lab. for which installation & commissioning to be done within 90 days of receipt of goods at site.

Note: 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.

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

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

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

**Part IV:**

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

**Part V:**

Warranty & Comprehensive Maintenance Contract (CMC) as per bid document.

**Part VI:**

**Required Terms of Delivery and Destination.**

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

At Consignee Site – Specified in the List of Requirements

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

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

The foreign tenderers are required to quote their rates on CIP Named Port of Destination Basis giving break up of the price as per the Proforma prescribed in the Price Schedule. Purchaser will place the order on Consignee site basis. The shipping arrangements shall be made by the supplier accordingly.

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.

**NOTE: For goods to be imported from abroad the Tender shall submit Proforma Invoice within 07 working days from the date of Award for establishing Letter of Credit process.**

Consignee/destination details as mentioned in Section-XXI.

**Following details have been provided by our Safderjung Hospital Site Office of Various Makes for Executing Turnkey Activities for Installation, Testing & Commissioning Medical Equipment viz. CT Scan, MRI, DSA, Digital Radiography, Digital Radiofluoroscopy, Cath Lab., PET/CT, Gamma Camera, Heamodialysis Machines, RO Plant, any Lab. Equipment or any other Medical Equipment requiring such activities at Safderjung Hospital Project:**

**LIST OF APPROVED MAKES : CIVIL WORKS**

S.No	Material	MANUFACTURERS
1	Doors & Windows fixtures/ Fittings	<i>Dorma, Godrej, Ozone, Austavision</i>
2	Door Closer / Floor spring	<i>Ozone, hettich, Dorma, Godrej,</i>
3	Aluminium Sections.	<i>Hindalco, Jindal, BALCO, Alom</i>
4	Clear Glass/ Clear Float Glass/ Toughened Glass	<i>Saint Gobain(SG), Modi, Asahi, Glaverbel</i>



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5	Laminates	Formica, Decolam, Century, Marino, Greenlam
6	Synthetic Enamel Paints	Berger, Asian, ICI , Nerolac, Shalimar
7	Oil Bound Distemper	Berger, Asian, ICI , Nerolac, Shalimar
8	Cement Paint	Snowcem plus, Berger, Nerolac, Asian, ICI
9	Plastic Emulsion Paint	Berger, Asian, ICI , Nerolac, Shalimar
10	Other Paints/Primers	Berger, Asian, ICI , Nerolac, Shalimar
11	MS Pipe/ Sections	Jindal Hisar, Prakash-Surya, BST, Kalinga, Tata
12	Polycarbonate Sheets	GE, Macrolux, Plastic, Vergola, Skyarch, Polytechno
14	Wooden Fire Check Doors	Navair, Pacific Fire Control, Kutty Promat, Sukri
15	Metal Fire Check Doors	Navair, Shakti- Met, Godrej, Sukri, Pacific Fire Control
16	Ceramic Tiles	Johnson, Somany, Kajaria, Nitco, Bell, Hindustan,
17	Pre-Laminated Particle Board	Novopan, Greenlam, Kitlam, Marino, Century, Archid ply
18	Flush Door Shutters	Century, Kitply, Green Ply, Duro
19	Glazed Tiles	Bell, Somany, Johnson, Kajaria, Nitco
20	PVC Water Stops	Prince/Supreme/Finolex//BASF
21	White Cement	Birla White, J.K., Grasim
22	Dash Fasteners./Anchor bolts	Hilti, Fischer, Bosch,
23	Stainless Steel Bolts, Washers and nuts	Kundan , Puja , Atul
24	6mm thick Reflective Glass	Glaverbel, Glavermas, Saint Gobain, Asahi
25	Door Locks	ACME, Godrej, Dorma
26	Door Seal – Woolpile Weather Strip/ Acoustic seal	Anand -Reddiplex, Enviroseal, Viper
27	Aluminium Grill	Hindalco, Jindal
28	Vitrified Tiles	Naveen, Bell, Kajaria, Somani, Nitco, Johnson, Euro
29	Aluminium Cladding sheets	Alstrong , Alpolic, Alucobond, Alstone International, Aludecor Lamination
30	Stainless steel D-handles	D-line, Giesse, Dorma, Dorset, ozone
31	Stainless Steel Pipes/Flats	304 Grade (as approved by Engineer)
32	Structural Steel	TATA, SAIL, RINL, JINDAL
33	Epoxy Flooring/ wall coating	Fosrock, Beck, Famaflor, Araldite, STP, Sika, BASF
34	Ply board	Greenply, Kitply, Century, Archid, Marino, Duro
35	PVC Flooring	LG, Tarkett, Responsive , Armstrong, Gerflor
36	SS Railing	Ozone, D-Line, Jindal,
37	Fire rated door closer/Mortice Lock/ Door Co-ordinator	Dorma, Becker F.S. Australian or approved equivalent

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38	Gypsum Board System	Gyproc (Saint Gobain), Lafarge, Boral, <i>Hilux</i> , <i>Aerolite</i>
39	Adhesive for Door Work	<i>Fevicol/ Vamicol/ Dunlop/ Piditite/ Sika/ Thermoshield</i>
40	Epoxy Paint	<i>Nerolac/ Shalimar/ cico/ Fairmate/ sika/ BASF/ Berger/ Asian/ Pidilite</i>
41	Polysulphide sealant	Pidilite/ Fosroc/ Choksey/chematal rai/ cico/ sika, MC Bouchemie, BASF, STP
42	Glass Doors (Motorised)	<i>DORMA/ Hafle/ Ozone</i>
43	Calcium silicate boards	<i>Hilux/ Aerolite, Armstrong</i>
44	Calcium Silicate Tiles	<i>Hilux/ Aerolite, Armstrong</i>
45	Texture Paints	<i>Spectrum/Heritages/ICI Dulux/Asian</i>
46	Wall care putti	<i>J.K. White/Birla/Gyproc wall putty</i>
47	Frameless glass partition fixtures	<i>Dorma/Hafle/Ozone</i>
48	U-PVC Windows	<i>Fenesta, Window Magic, Aluplast</i>
49	Toilet Cubicles	<i>Greenlam, Marino or approved equivalent</i>
Note:	<p>If the makes given in the list are not available, other equivalent makes can be considered subject to approval by the Purchaser/HSCC based on credentials of the company and test certificates of the product, subject to price adjustment.</p> <p>Wherever makes have not been specified for certain items, the same shall be as per BIS and as per approval of Purchaser/HSCC.</p>	

**LIST OF APPROVED MAKES: PLUMBING WORKS**

Sl.No	Material	Relevant IS Code	MANUFACTURERS
1	Vitreous China Sanitary ware	2556	Kohler, Roca, American Standard, Toto
2	White Glazed Fire Clay Sink	771	Sanfire, Cera, Neycer, Hindware.
3	Stainless Steel Sink		Jayna, <i>Neelkanth</i> , Commander, Nirali
4	Plastic seat cover of W.C	2548	Kohler, Roca, American Standard, Toto
5	Geyser		Racold, Venus, Voltas, Usha Lexus, Jaguar, Havells
6	C.P. Fittings Mixer/Pillar taps Washers, C.P. brass accessories ,CP Angle Valve,Bibcocks,CP waste	1795/4291/4827	Kohler, Roca, American Standard, Toto
7	Centrifugally /Sand cast iron pipes & fittings	3989/1729	Neco, Hepco, <i>SKF</i>
8	G.I. Pipes	1239 Part I	Jindal-Hissar, Tata, Prakash-Surya
9	G.I. Fittings	1239 Part I	Unik, K.S., Zoloto, R
10	Stoneware pipes & Gully Traps	651	IS Marked pipes
11	Mirror		Atul, Modi guard, <i>Asahi</i> , <i>Saint Gobain</i>

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12	Hand drier		Kopal, Automat, Euronic, <i>Utech</i>
14	Insulation of Hot water pipes		Vidoflex insulation, Superlon, <i>Thermafex, Kaiflexkaimenn</i>
15	D.I pipes		Jindal, Tata, Electrosteel., <i>Kesoram</i>
16	PVC/UPVC pipes & fittings		Finolex , Prince,
17	Infrared Sensor operated Faucets/Urinals		Kohler, Roca, American Standard, Toto
18	Gratings, Strainers, Cleanouts etc		Neer Brand (Sage Metals), <i>ACO</i>
19	Decorative bath room fittings		Jaquar (Florentine range), Aquabaths, Kohler
20	HDPE pipes and fittings		Oriplast, So-Soon, Finolex, Gebreti, Nosil,
21	CPVC pipe,fittings and Solvent		Flowguard, Astral, Prince,
22	Copper Pipe		Raj Co., Maxflow, <i>Mehta Tubes</i>
23	Copper Fittings		Viega, IBP, <i>Yorkshire, Mehta Tubes,</i> <i>Rajco</i>
24	Lab drainage		Viega, Duraline, Rex
25	Lab Fittings		Vijay, Viega
26	SS pipe(EN-10312) & press type fitting		Viega, Jindal
27	Oxilyte (Mixed oxident)		Oxybee Solutions, I2M Technologies, Faith Innovations

Note:Wherever makes have not been specified for certain items, the same shall be as per BIS and as per approval of Purchaser/HSCC.

**LIST OF APPROVED MAKES : FIRE FIGHTING WORKS**

Sl.No	Material	Relevant ISI Code	MANUFACTURERS
1	G.I./M.S. Heavy class pipe	1239/3589	Jindal-Hissar, Tata, Prakash -Surya,
2	Portable Fire Extinguisher	2171	Minimax, <i>Safex</i> , Ceasefire, Newage,
3	Sprinkler Heads		
4	Pendent type		Tyco, <i>Viking,HD,Grinnel</i>
5	Side wall type		Tyco, <i>Viking,HD,Grinnel</i>
6	Sprinkler Side wall extended through		Tyco, <i>Viking,HD,Grinnel</i>
7	Standby battery lead acid		Exide, Standard, Amco
8	Cables		As per Electrical Works
9	G.I. Fittings	1239 Part I	Unik, K.S., Zoloto, <i>R</i>
10	DI pipes		Jindal,TATA,Electrosteel,Kesoram
11	Pipe coat material (Pipe protection)		<i>Pypkote Integrated water proofing co. Madras/ coaltek Rustech products (P) Ltd. Syndcate Enclave, Dabri/Makphall</i>
12	Fire Man's Axe		<i>Safeguard/safex/Newage/Gunnebo</i>

Note:Wherever makes have not been specified for certain items, the same shall be as per BIS and as per approval of Purchaser/HSCC.

LIST OF APPROVED MAKES FOR ELCTRICAL SYSTEM

Contractor shall use the materials of approved make as indicated below unless specified in BOQ or as approved by the HSCC electrical incharge. The contractor shall ensure the correct selection of the approved make meeting the specifications and application duties. Before placing order for procurement, the sample of approved make shall be got verified for its suitability to the specification and application duty. However, HSCC electrical engineer (approving authority) reserves the right to opt for the best preferred listed make. The contractor shall quote the rate for the material and equipment as per the list of approved makes and equipment as per the list of approved makes. In the event of the contractor wants to use alternate makes other than those stipulated for any reason , the contractor can send a proposal after ensuring that what he proposes at the least meets both the quality and safety standard of the stipulated makes, and the financial benefit that will accur to the client. He shall also stand full guarantee to his alternate proposal. The alternate makes can be used only after an approval accorded by the client/HSCC., whose decision will be final in this matter. Any financial implication incurred related with inspection will be borne by contractor.

S.No.	Item Description	Make list
1	Timers in Distribution board	Legrand/ Hager/ Siemens/ ABB/ GE
2	MCB distribution Boards	L &T /Hager/ MDS/Legrand/ Siemens, ABB/GE/ Schenieder (MG)
3	MCB	L &T /Hager/ MDS/Legrand/ Siemens, ABB/GE/ Schenieder (MG)
4	Rewirable porcelain wire	CPL, KEW
5	Data and Voice wire	Finolex,Delton,Skyton,Anchor,L&T,AT&T, Avaya
6	RCCB	L & T Hager/ Legrand/ Siemens , GE/Schenider (Merlin –Gerin)
7	ELCB/ELMCB	Merlin Gerin-multi 9, Legrand, Hager, Siemens
8	11 KV LT XLPE cables	RPG/ Polycab/ NICCO/ UNIVERSAL/Rallison/KEI/Skytone/ Havells
9	Copper Control cable	Finolex/ Polycab/ NICCO/ Universal/ National/ Rallison/RR Cable
10	Cable Joints (Heat Shrinkable)	Raychem/3M/Cabseal
11	Cable Trays	Steelways/ Bharti/ Unitech /Maheshwari/or approved by HSCC
12	Galvanized/PVC Raceways and raceways accessories	Steelways/ Bharti/ Schneider(MG)/Legrand
13	Light fitting	Philips/ GE/ Crompton Greaves

14	fancy LIGHT FITTING	Anchor(Panasonic )/ Twinkle/Decon/Ankur
15	Lamps	Philips/ Osram/ GE/Anchor (Panasonic)/Perlite
16	GI / MS conduit ISI marked	BEC/ AKG/ Steel Kraft
17	PVC conduit	BEC/ AKG
18	Steel conduit accessories (ISI as approved sample)	Sharma sales corporation, super sales corporation or equivalent.
19	Modular Metal box for switch /socket	Havells/ MK/MDS/Anchor Roma/Northwest
20	Copper conductor FRLS PVC insulated wires ISI marked	National/ Finolex / R R cable/Rallison/Skytone/lap/Bonton
21	Modular Switches & sockets Outlets	Havell's ( Crabtree)/ MK- Wraparound/Hagger/Wipro Legrand (Myrius/ Anchor- Roma(Tersa,woods,viola)/ Northwest
22	Metal clad Socket outlets With boxes	L & T Hager/ Siemens/ Merlin Gerin/ ABB MDS / BCH /Havells
23	UPS system	PCI LTD/ Siemens/ Etone powerware/Emerson/APC (Schneider)
24	Electronic Ballast	Philips/ Wipro/Osram / Bajaj
25	Ceiling fans	Crompton Greaves/ Bajaj/ Orient/ Alastom/ Usha
26	Main PC with CPU monitor	HP/ Compaq/Del
27	PVC Tape	Steel Grip
28	Batton Holder,Angle holder, Ceiling Rose	Anchor
29	Exhaust Fan with Gravity Louvers	Usha Lexus/Orient/ Crompton/Industriel- Almonard/ GEC
30	TV Cable- Co axial	Finolex, airtech, bhansali
31	Chemical Earthing	Ashlok, Erico, Pioneer, Nimbus,JK Earthing
32	LCD/LED Monitor	Sony, Panasonic, Samsung

LIST OF APPROVED MAKES AND MANUFACTURERS

The subcontractors/makes/brands of equipment listed below are approved for installation.

All items to be used in the works samples, catalogues and specifications are to be submitted by the contractor for approval of the Purchaser/HSCC. Only approved makes shall be used in the works. The approved samples shall be kept in the custody of the Purchaser/HSCC for comparison.

S.No	Material/Item	Approved Makes
1	Precision AC units	Emerson/Blue box/Stulz/Hiross
2	Window/split AC	Carrier /Hitachi/Voltas/Bluestar/Daikin/Ogeneral
3	VRV/VRF	Carrier /Hitachi/Daikin/Ogeneral
	Ducting & Grilles	
4	Factory fabricated duct	Zeco/ Ductofab/Rolastar/Technofab
5	G.I. Sheet Metal Duct	Jindal /National/ Tata/Sail
6	Spiral duct	Atco/Seven Star
7	Grilles/Diffusers/Volume Controller	Ravistar/Caryaire/ Mapro/Dynacraft/Airmaster
8	Fire Dampers UL listed	Caryaire/Dynacraft / Ravistar/Ruskin
9	Sound Attenuator	Caryaire/Dynacraft/Ravistar/Trox
10	G.I. Sheets	TATA/SAIL/Jindal/Bhushan Steel
11	Aluminium Sheets	Balco/Nalco/Hindalco
12	Stick Pins	Prima Seal/Air flow
	Pipes	
13	G.I.	ITC/ Jindal Hissar/Tata/SAIL/HSL
14	M.S. upto 150 mm	ITC/ Jindal Hissar/Tata/SAIL/HSL
15	M.S. 200 mm and above dia factory rolled	ITC/ Jindal Hissar/Tata/SAIL/HSL
	Valves	
16	Butterfly Valves	Advance/Audco
17	Motorised butterfly valve(actuator)	Belimo/Honeywell/Invensys/siemens
18	Non Return Valve	Advance/Kirloskar/Audco
19	Balancing Valves	Advance/Audco/Danfoss/Honeywell
20	Gate/Globe Valves	Leader/Divine/Sant/Bankim Sarkar /Zoloto
21	GM valve upto 40mm	Leader/Divine/Sant/Bankim Sarkar /Zoloto
22	Ball Valve with Y strainer	Rapid Control/Sant/Leader/Zoloto
23	Pressure independent Balancing valve	Danfoss/Flowcon/TA
	Accessories	
24	Y-strainer	Emerald/Sant/Rapid cool
25	Pressure Gauge	Fiebig/Emerald/H Guru/Japsin
26	Thermometer	Fiebig/Emerald/H Guru/Japsin
27	Flow Switch	Rapid Control/Anergy

28	Automatic Air Vent	Rapid Control/Anergy
29	Suction Guide	Anergy/ Rapid Control/Flowcon
30	Filters(pre,fine Hepa)	Thermadyne/Spectrum/Kirloskar /Anfilco/Johnflower/Dynafilter
	Insulation	
31	Expanded Polystyrene	Beardsell Ltd./ BASF/Styrene Packing/ Indian Packaging Industries/ Lloyd
32	Glass Wool	FGP Ltd./UP Twiga/Kimmco / Owens Corning
33	Polyurethane Foam	Malanpur /Superurethane
34	Crossed linked Polyethylene Foam	Trocellene / Aeroflex/Armacell/
35	Closed Cell Elastomeric Insulation	K-flex /Vedoflex/Armacell
36	Non woven fibre material	Mikron/ Du pont
37	Mineral wool	Rockwool India Pvt Ltd,
38	Pre-moulded PUF section for pipe & pipe supports	Malanpur/ Lloyd
39	Fibreglass rigid Board/Pipe section	FGP Ltd./UP Twiga/Kimmco / Owens Corning
40	Aluminium Tape	Johnson/Birla 3M/Garware
41	Thermostats	Honeywell/Johnson controls/Belimo/Danfoss/Siemens/Oventrop
42	Humidistat	Honeywell/Johnson control/ Belimo/Danfoss
	Miscellaneous	
43	V Belt	Dunlop/Fenner
44	Anchor fastners	Fischer/Hilti
45	Dash fastner	Fischer/Hilti
46	Welding rods	Advani/L&T
47	Wire Rope duct supporting arrangement	Gripple
48	Flexible pipe connection	Dunlop/Kanwal/resistoflex
49	Hessian Cloth (fire rated)	Navair/Pyrogaurd
50	Vibration isolator	Resistoflex, Dunlup, Kanwal
51	Copper Refrigerant Piping	Diamond/Star/Rajco

**It is the vendors/suppliers responsibility to do the needful for installation, testing and commissioning of Medical Equipment as per terms and conditions of the Bid Document including Turnkey Works mentioned in Section-VII of the Bid Document.**

**Section – VII**  
**Technical Specifications**

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**Technical Specifications for DUAL HEAD GAMMA CAMERA INTEGRATED WITH SPECT AND MULTI - DETECTOR, MULTI - SLICE CT SCANNER TO BE INSTALLED ON TURNKEY BASIS in Department of Nuclear Medicine, Super Specialty Block, V.M.M.C. & Safdarjung Hospital, New Delhi.**

Sealed tenders (sealed separately as the Technical Bid' & the 'Price Bid'- in duplicate) are invited on CIF/CIP basis, directly from the Manufacturers/Principals for the supply of a "state-of-the-art" and latest technology DUAL HEAD GAMMA CAMERA SYSTEM INTEGRATED WITH SPECT AND MULTI-SLICE CT SCANNER (16 OR MORE SLICE) AND HAVING 4-0 GATED RESPIRATORY, GATED CARDIAC AND DYNAMIC CT IMAGING ACQUISITION CAPABILITY.

The tenders along with all the commitments, claims, specifications, clarifications, guarantee, warranty etc pertaining to these equipments shall be submitted directly by the Manufacturer! Principals (also referred to as vendors or suppliers) through their local subsidiary office, who shall be wholly and solely responsible for all such statements/commitments in this connection.

Offers submitted by local agents, other than the direct subsidiaries of the Principals, shall NOT be entertained. Such offers shall be summarily rejected with forfeiture of their EMD.

The equipments offered by the vendor must be extremely durable and with the highest quality performance. These should be sturdy, stable and reputed machines having high performance status all over the world and particularly in India.

The equipments offered should be based on the latest technology of detectors, hardware and software. These should be, solid state and fully digital. Designs of the equipments should be compact, with all the parts and components neatly enclosed inside covers. These should be new models — not more than three years old in the international market, with proven performance record in various clinical centres. Years of launch of the models along with their years of installations with satisfactory performance report at various centres, especially in India, must be attached for the equipments offered. Any equipment not having any installation base in India shall be considered only after technical specification committee's special approval, if other terms and conditions are fulfilled.

The vendor should have a strong and reliable technical and service support network in India. The installation and maintenance of the systems shall be carried out through an established service department of the supplier, employing factory-trained, BARC certified field service engineers. Vendors unable to provide on-site service by such engineers need not respond to this tender.

**DETAILED TECHNICAL SPECIFICATIONS FOR THE SYSTEM**

**PART A: GENERAL**

**1. GENERAL:**

- (i) A latest technology Dual Headed variable angle SPECT Gamma Camera system capable of performing all planar, SPECT, WB SPECT and Whole Body imaging applications with sixteen or more slice diagnostic capability CT.
- (ii) CT based attenuation correction for Gamma Camera.
- (iii) Diagnostic CT image acquisition and fusion with nuclear medicine images.
- (iv) Image fusion software & hardware.
- (v) System should be independently capable of acquiring multi-slice CT Scan of full diagnostic quality.
- (vi) Vendors shall provide a comprehensive list of users of dual head SPECT-CT gamma camera installation base in India and their performance profile.

**PART B: GAMMA CAMERA**

**1. GANTRY:**

- (i) Gantry design should be wide open and image acquisition capability with clockwise and anticlockwise movement.
- (ii) Height, width and depth should be adequate to conveniently locate the gantry in existing space available in the department. In order to access this, tenders are required to mention the dimensions.
- (iii) Auto contouring: The detectors should be equipped with automatic body counteracting (ABC).
- (iv) Gantry should have emergency stop buttons.
  - (v) Persistence scope mounted on the gantry or wall for continuous display of patient position and gantry parameters (with LCD Colour Display)

**2. DETECTORS:**

**a. Dimensions:**

- (i) Large field of view with UFOV of 45 X 35 cm or more to enable adequate patient breadth coverage and diagonal field of view of 50 cm or more
- (ii) Should have facility for automatic correction for energy, linearity and uniformity

**b. Crystal:**

**c. Photomultiplier Tubes:**

**d. Intrinsic Spatial Resolution:**

**e. Intrinsic Energy Resolution:**

**f. Intrinsic Flood Field Uniformity:**

**g. System Spatial Resolution (LEHR at 10 cm):**

**h. Intrinsic Spatial Linearity:**

**(b. to h. above as per -NEMA NU1-2007 Standards)**

**i. Collimator Specification:**

- (i) Low Energy High Resolution (LEHR) — One pair
- (ii) High Energy General Purpose (HEGP) for  $^{131}\text{I}$  — One pair

**j. Patient Bed specifications:**

- (i) Length 190 cm or more
- (ii) Width: 40 cm or more
- (iii) Range of vertical motion 50- 120 cm
- (iv) Pallet Material: Carbon fiber/high modulus carbon fibre
- (v) Pallet thickness: 35 mm or less
- (vi) Attenuation at 140 keV: less than 10%
- (vii) Weight bearing capacity: 170 kg or more
- (viii) Maximum deflection of patient pallet: less than 0.5 mm
- (ix) Scan length in Whole body mode: 190 cm or more
- (x) Adjustable head holder for brain scan.

**Part C: CT WITH CT-SIM**

- 1. The system should be the fastest available slip ring technology/contemporary technology allowing full rotation multi-slice scanning of **16 slices** or more per rotation with true isotropic volume acquisition and high spatial resolution of at least 0.5 mm or less. Give details of Z axis resolution and the pitch at which this resolution is achieved.

**2.X-RAY GENERATOR:**

Should be high frequency inverter type with power output of 50 KW or more to support sustained and continuous X-ray generation.

**3.X-RAY TUBE:**

- a) High performance CT X-ray tube is essential for uninterrupted long spirals. Give details of anode temperature monitoring system. Give details of tube current range and mA rating at peak generator power. Is there a mA modulation mechanism for dose regulation? Give details.
- b) Tube voltages: 80-140 KV or more if available
- c) Filter and beam limiting devices and other specific features to reduce radiation dose to the patient.
- d) Give details of Anode heat Storage capacity, heat dissipation and tube assembly heat storage and cooling details of the tube offered.
- e) Specify the focal spot size and number according to IEC recommendations.
- f) Automatic selection of focal spots should be possible.

**4.GANTRY:**

- a) Aperture should be 70 cms or more to facilitate guided interventions.
- b) Specify the entire range of rotation times for full 360 degrees.
- c) Lesser rotation times will be preferred.
- d) Remote controlled tilt should be possible from the operator console.
- e) Minimum scan field of view (FOV) should be 50 cms. or more.
- f) Laser alignment light should control the isocentric position of the patient in all planes and isocentre should be maintained even when the gantry tilts.
- g) Controls should be located on both sides within easy reach of the operator.

**5.SPIRAL CT:**

- a) Scan time for complete 360 degree scan should be 0.5 sec or less.
- b) Minimum slice thickness should be less than one mm. Slice thickness should be freely selectable for prospective and retrospective reconstruction.
- c) Gapless spiral length 150cms or more.
- d) Specify range and selectable slice thickness available.
- e) Pitch factor (volume pitch) should be variable between 0.5 to 2.0 or more and should be user selectable. Give details of all pitch selections.
- f) Rotation times: specify the minimum and maximum with the range of pitch. Combinations of pitch, slice thickness and spiral length should be easily selectable by the user. The system should optimize the radiation dose and resolution for each selection.
- g) Bolus triggered spiral acquisition should be possible.
- h) Single continuous spiral acquisition time "spiral on time" should be minimum 100secs or more.
- i) 4-D Gated Respiratory, Gated Cardiac and Dynamic CT Imaging Acquisition Capability Shall Be Provided.

**6.TOPOGRAM:**

- a) Specify the range of length.
- b) Scan time: Give details.
- c) Views: should be possible in frontal and lateral views.
- d) Should be possible to interrupt acquisition manually once the desired anatomy is obtained.

**7. DATA ACQUISITION SYSTEM:**

- a) Detector: Please specify the detector design and type of detector used.
- b) Give details of the detector electronics, number of rows with their thickness, number of elements, channels per slice, number of projections, maximum number of discrete slices/rotation.
- c) Give details of real time tube current, geometric and absorption efficiency of the detectors in percentage.
- d) Display of radiation dose per examination is essential.
- e) Acquisition protocols should have in built mechanism for adapting the tube current according to body shape during the examination for dose regulation.
- f) Specify the mechanism used in the system quoted.
- g) There should be in-built protocols for all pediatric applications in order to reduce the effective dose. Give details.
- h) Respiratory gated scan acquisition complete with hardware and software for 4D CT.

**8. IMAGE RECONSTRUCTION:**

- a) Real time reconstruction speed of more than 20 images/sec for any slice thickness with full cone beam reconstruction at 512 x 512 matrix.
- b) Specify the reconstructed slice width, scan field and reconstruction field. Slice thickness should be freely selectable.
- c) Specify the scan time and length.

**9. IMAGE DISPLAY MONITORS (common with the Gamma Camera):**

- a) Monitors should be flat screen to last full life of the scanner with continuous and uninterrupted use without significant deterioration of display quality.
- b) Minimum numbers of monitors to be provided are 3. One for the examination room, one for the control room and one for post processing console/work station.
- c) Size of monitors should be more than 18": Full flat screen LCD display with resolution of 1024 x 1024 or more.
- d) Pixel size should be minimum 0.3 mm or less.
- e) Afterglow persistence is undesirable. Please give details.

**10. CONSOLES (common with the Gamma Camera):**

- a) Operator console should perform all functions such as registration, scheduling, protocol selection, all standard evaluation applications, volume measurements, volume rendering MPR etc.
  - i\_ Should have raw data storage with at least 100 GB hard disk having a minimum of 100,000 image storing capacity in 512 x 512 matrix.
  - ii. Real time 3-D reconstruction and display should be possible during acquisition.
  - iii. Please specify all post processing software which will run on the workstation and not on the operating console.
- b) Independent Advanced Workstation/Console X 2 Nos.
  - i. Capable of simultaneous acquisition and post processing, preferably swappable with the main console should be provided. These should have hard disk storage of 100 GB or more with options for provided enhancement of storage capacity and future upgrades. Give details of the hardware of workstations/consoles to be provided.
  - ii. The following software is to be provided:  
Complete Software for brain and body perfusion studies.
  - iii. Real time reconstruction and immediate display of images in 1024X1024 matrix parallel to acquisition in spiral mode to be provided.

- iv. Facility for direct 3D image formatting in any plane during acquisition as planned on scout images.
- v. Lung nodule evaluation and lung perfusion defect detection.
- vi. Characterization of liver & kidney lesions.
- vii. Fully automated Tumor Tracking Software with automated tumor volume calculation.

## **12. IMAGE EVALUATION TOOLS:**

- a. Parallel evaluation of multiple regions of interest in circle, irregular and polygonal form.
- b. Complete statistical evaluation software for axial & 3D images. Bloodflow quantification packages for perfusion studies. Give details.
- c. Profile cuts, horizontal, vertical, oblique.
- d. Annotation, labeling, online measurements, ROI etc.
- e. Dynamic evaluation of contrast enhancement in organs and tissue, calculation of time density curves, peak enhancement images, time to peak images, image subtraction etc.
- f. 2D image zoom, pan, manipulate, averaging reversal of grey scale values, mirroring, image filter functions, advanced imaging algorithms and advanced bone correction.
- g. Real time MPR of all secondary views.
- h. CTA, MIP, 3D, SSD advanced 3D applications and colour coding.
- i. Spatial alignment and visualization of 2 different data sets of one patient generated on different modalities or with different acquisition times.
- j. Fusion of morphological data obtained on CT, MR and DSA.
- k. All above functions should be instantaneous and interactive.
- l. On line patient registration facility, transfer of information from HIS/RIS via DICOM and emergency registration.

## **13. IMAGE QUALITY:**

- a. Parameters for the following must be specified clearly as these are considered crucial for system comparison.
- b. Low contrast Resolution/ detectability should be at least 5mm at 3.0 HV with 20 cm CATPHAN. Specify surface dose, mAs, slice thickness and HU used to determine the low contrast resolution.
- c. High Contrast Resolution:
  - i. Specify at 0% and 10% MTF with full FOV.
  - ii. Specify the phantom used, scan time, mA, KV, slice thickness and time.
- d. Please give details of the radiation dose per scan and per standard spiral volume.
- e. Specify the cross field homogeneity and system noise

## **PART D: GENERAL CONDITIONS & REQUIREMENTS**

- 1. In the above specifications wherever the word 'shall' is mentioned, it is taken in the meaning that the required feature/facility/procedure/specification/standard is mandatory.
- 2. The vendor, on behalf of the consignee institution, shall keep the entire equipment **comprehensively insured** along with the building, fittings/fixtures/accessories etc. against any kind of loss, mishaps, delays, demurrages, penalties etc. due to any reason whatsoever (either during shipment, local transportation, during/after installation or during maintenance), from the time of receiving the confirmed order till as long as the equipments are under guarantee &/or AMC.
- 3. All claims regarding compliance with the specifications shall be duly supported by appropriate, latest and ORIGINAL technical catalogues/brochures from the manufacturer. Simply stating that the equipment meets the specifications is not sufficient and any such quotations will be

summarily rejected. **Photocopies, computer printed documents or laser printouts will not be accepted as technical catalogues/brochures.**

4. During the warranty period, software up gradation shall be provided free of cost, wherever applicable
5. The vendors shall submit point-wise compliance statement in regard to the specifications asked for in the tender and should mention corresponding page numbers matching with the technical details in the compliance statement and the technical brochure - reciprocally.
6. ALL THE EQUIPMENTS/ACCESSORIES/SOFTWARE OFFERED AGAINST THIS TENDERS SHALL HAVE APPROVAL OF THE FDA AS WELL AS THAT OF THE REGULATORY BOARD OF THE COUNTRY OF ORIGIN OF THE EQUIPMENTS AND THE AERB, INDIA.
7. THE RADIATION EQUIPMENTS OFFERED AGAINST THIS TENDER SHALL DULY CONFORM TO THE PRESCRIBED INTERNATIONAL/NATIONAL STANDARDS AND NORMS OF RADIATION SAFETY. VENDOR SHALL BE RESPONSIBLE FOR ALL APPROVALS FROM AERB AS PER THE REQUIREMENTS FOR SITE PLAN, TURNKEY WORKS, IMPORT OF EQUIPMENTS, INSTALLATION CALIBRATION & COMMISSIONING OF EQUIPMENTS AFTER MEETING ALL STATUTORY NORMS.
8. A list of installations existing in the county with 'satisfactory service certificate', if available from the user, may be submitted to support the claim of a good performance of the equipment. The supplier shall mention the number of installations in India and worldwide, for the quoted model only. **Such installations should have been supplied directly by the quoting firm itself.** Current performance and status report from the user departments for the model quoted shall be provided.
- 9 A blank '*Acceptance Test Protocol*' for the offered model should be enclosed with the technical bid. In addition to the procedures mentioned in this manufacturer's protocol, it shall be binding on the manufacturer to agree for satisfactorily meeting the other acceptance requirements as defined by the Competent Authority.
10. Additional items not included in the essential items of the tender, if available, may also be quoted by the firms as optional features, separately with individual prices. These may include advanced features/special features/advanced clinical applications. The vendors should quote their optional items in a separate sealed cover (technical and price separately) which will not be used for comparison of the basic system. However if the Institute wants to purchase any one of the optional items in future, the quoted price can be taken as the maximum applicable or the prevailing price at that time, whichever is less, until the expiry of 10 years period from commissioning.

#### **11. INTERFACING:**

- i) The Supplier shall maintain a direct international communication channel with the Principals/other centres for on-line maintenance of the system as well as for joint multi-centric treatment & research protocols.

#### **12. INSTALLATION:**

Installation of all these equipments/accessories shall be free of cost and should be completed in the specified time-frame manner. The vendor shall demonstrate all the acceptance and calibration tests, to the satisfaction of the user as well as of the Regulatory Authorities, as required for the safe use of the equipments.

**13. ADDITIONAL SOFTWARE:** The software, apart from other state of the art applications, should also provide following applications:

- (i) Clinical processing software and comprehensive protocols for wide spectrum of SPECT.
- (ii) SPECT reconstruction, motion correction, whole body and whole body SPECT. The software should also encompass organ specific protocols for kidneys, lungs, thyroid, parathyroid, brain gall bladder, liver, osteology, oncology etc.
- (iii) Apart from inbuilt SPECT software separate software for fusion of imported CT/MRI data with SPECT is also to be provided
- (iv) NeuroQ or a similar software for brain quantification studies.

**14. QUALITY ASSURANCE ACCESSORIES:**

- (i) Quality assurance phantom for radiation safety image uniformity and pixel noise etc.
- (ii) QC software for verifying alignment of the table position.
- (iii) SPECT phantom, point sources, to permit comprehensive quality assurance program both for SPECT
- (iv) Intrinsic and System resolution phantom
- (iv) System count rate performance phantom
- (v) QC software package (NEMA NU1-2007 or latest protocol) with documentation
- (vi) Quadrant bar phantom and <sup>57</sup>Cobalt flood source of 15mCi at the time of supply

#### **PART E: WARRANTY & AFTER SALES SERVICE**

The vendor shall give a comprehensive, on-site warranty from the Principals for the first five years from the date of commissioning of the entire system (inclusive of vacuum and non-vacuum parts and all the locally supplied items including consumables like batteries of the UPS, printer cartridges etc). **However, the Digital detectors, crystals, PM Tubes and the X-ray tube (for the Gamma Camera and for the CT), shall carry comprehensive warranty for 10 years from commissioning.**

Free labour warranty shall be provided for the next five years. Rates for comprehensive annual maintenance for the second five years' period SHALL be quoted separately on annual basis (covering for the components not already covered under 10 years warranty). Pro-rata warranty is not acceptable. Maintenance Contract offered by the local agents is also not acceptable.

A written agreement valid for five years for complete unit, signed by the manufacturer, shall be provided to guarantee that failures in materials and workmanship that occur within the warranty period will be corrected. Such failures will include those attributable to abnormal aging. Such warranties will not reduce or otherwise limit any other rights to correction which the purchaser may have.

Warranty, guarantee and service are considered as part of the bid specification. The contractor shall provide complete and specific details of maintenance operations performed under service contracts. The contractor shall provide estimated costs for yearly renewal and extended length (multiple years) contracts beyond the warranty period.

The service engineer, representing the vendor shall be thoroughly familiar and experienced with all aspects of cyclotron operation, target operation, chemistry systems, automation systems, control systems, heat exchanger operation and workstation environment. The engineer should be able to diagnose problems and effect repairs with any radionuclide production system defined earlier. The service engineer shall be posted at the facility and available on Telephone

The manufacturer shall give an unqualified commitment that the maintenance and guarantee of the equipments shall in no way be affected by any change in its administrative or trade set up like the change in the authorized agent or any merger, amalgamation or separation of the company or any of its constituents etc. for that matter.

During the period of maintenance warranty, the supplier shall give a commitment for 96% uptime of the equipments as well as the accessories, calculated on annual basis. If the specified uptime mentioned above is not achieved, the warranty period will be extended by double the number of days for which guaranteed up-time period criteria was not met. However, if the machine lies non-functional for a period of more than one week continuously at any stage, the same penalty will be imposed even if 96% uptime clause is being met with for the given calendar year. **ANY BID WITHOUT AGREEING TO THIS WARRANTY AND PENALTY CLAUSES WILL BE SUMMARILY REJECTED.**

The supplier shall provide an unconditional Bank guarantee valid for five years equivalent to 10% amount of the final price negotiated for the order (*including the turnkey price*). The bank guarantee shall be released after obtaining satisfactory completion report from the user after the 5 years guarantee period. Penalty, if any, arising out of the higher downtime of more than 15 days per year, shall be deducted from this amount before releasing the balance. After 5 years, the supplier shall give a fresh bank guarantee valid for the next five years equivalent to half of the amount of the initial bank guarantee(s).

Errors in the technology in the equipment (both in hardware as well as in software), if any detected anywhere in the world at any time, shall have to be rectified/replaced at this institution by the vendor immediately, free of costs, whatsoever.

Detailed Technical Catalogues (Service Manuals & User's Manuals-original sets) shall be provided for all the equipments including accessories.

All vendors shall quote their bids **showing the break up prices instead of a composite price, both for the equipments as well as for the turnkey work.** The break up prices of the equipments, and their major components/accessories/ spares shall be clearly and unambiguously stated to facilitate comparison of prices on a common platform.

#### **PART F: AFTER SALES SERVICE**

Besides, the supplier shall also provide complete on-site training to all the staff of the department.

#### **PART G: GENERAL TERMS & CONDITIONS**

1. The supplier shall also give a commitment that the price quoted for the equipments in the tender is the minimum price quoted to any institution in the country for similar terms & conditions; whether Government, semi-Government, autonomous or non-/ Government; in the recent times (preceding six months) and shall remain so for at least the next six months subject to variations in the foreign exchange rates, if applicable. The Government of NCT of Delhi shall be free to initiate any action, as deemed fit against the supplier, in case a violation to this commitment is detected at any stage subsequently.

The Vendor should give a break up price and also quote an all inclusive price including clearance, transport, custom duties, levies, taxes, any other expense etc. for comparison of total cost liability upon the Government.



2. Set of manuals explicitly related to preventative maintenance procedures, potential problems and repair of systems. These are to be in addition to the manuals described previously. At least one of those manual sets to be provided in computer readable format, preferably as Word for Windows format document.
3. **CERTIFICATION: Vendor shall get No Objection Certificate** from AERB Mumbai on the format given by AERB complying to all requisite radiation safety regulations.
4. **QUALIFICATIONS:** Manufacturer must have a demonstrated history of manufacturing cyclotron systems of similar size and scope. Equipment materials, devices and components shall be those that are routinely manufactured, produced and delivered. Devices, equipment or Component for which only a design or concept is available will not be acceptable. Vendor shall provide installation by a company with demonstrated background of at least five installations of cyclotron systems of similar size and scope.
5. **DELIVERY, STORAGE AND HANDLING:** Vendor shall pack and otherwise protect each unit to avoid damage during shipping and handling. During delivery, contractor shall keep materials dry at all times, and protect them from exposure to weather and contact with damp or wet surfaces.
6. **CONDITIONS OF DELIVERY:** Vendor shall co-ordinate activities with the general contractor (employed by purchaser) to ensure, that installation of the system will not be compromised. other construction activities or adversely affect the work of the general contractor.
7. **OTHER CONDITIONS:** Vendor shall notify Purchaser of any manufacturing changes, modifications. or product substitutions that occur in the equipment (hardware or software) prior to shipment. The purchaser shall have the right to Cancel the order and to receive a full rebate, of any payment made if the changes or modifications are unacceptable.
8. **SCHEDULING:** A tentative schedule will be established and will be discussed in detail at the pre-proposal conference. Nonetheless it is absolutely required that the system be delivered, installed, and accepted within 4 months of acceptance of the successful proposal
9. **ARCHIVING:**
  - a. DVD DICOM recorder with at least 4 GB storage per side per disc with facility for quick retrieval of images should be provided 50 DVDs per year for the entire warranty period should be quoted.
  - b. The archiving system should have a patient data base to track archived images. Include PC i3 or later, at least 1TB hard disk, minimum 19" TFT screen.
10. **IMAGE TRANSFER/NETWORK:**
  - a). System should be fully DICOM 3 compatible for DICOM send/receive/query/retrieve, basic print connectivity to any network, and minimum 5 PC's. It should be possible to integrate the system to any PACs, HIS & RIS for transfer of CT images to the Departments/sections (like OPD chambers, Board Room, doctors rooms etc) at Hospital and should be carried out by the vendor at their cost.
  - b) Vendor should enable live image display in the conference area of the depth, directly from the system using slave monitors.
  - c) Global modem to allow on-site connectivity and maintenance.

- d). All necessary interconnecting interfaces, cables, modules and other hardware and software to fully integrate the system and seamlessly merge the new facility with the current and future workflow of the Institute\_

### 13. ESSENTIAL ACCESSORIES TO BE SUPPLIED

- a) Two Suitable Dual Head pressure injector with set of 200 syringes and tubings. It should be possible to trigger the scan from the Injector Head.
- b) Patient positioning accessories and restraining devices to be provided (2 complete sets)
- c) A complete set of operator manuals incorporating the newer applications should be supplied along with service manuals for prompt corrections by the onsite engineer,
- d) Lead Glass Window: 100 x 150 cm separating the scanner and console.
- e) Facility for reconstruction of images and immediate display of SPECT and CT fusion images in 1024 x 1024 or more matrix parallel to acquisition in spiral mode in 512 x 512 or higher matrix.

f) **WORK STATIONS:**

- (i) One main console work station, one viewing station, one mainly oncology workstation, one mainly cardiac workstation to be provided in the department.
- (ii) Operator control functions: registration scheduling; protocol selection; reconstruction, standard evaluation applications; 3D display, Virtual Scopy including advanced colonoscopy, MPR CMR reconstruction during acquisition. Image fusion facility should also be incorporated on all workstations.
- (iii) Minimum size: Minimum 19 inch or more diagonal LCD display for all work stations.
- (iv) Superior quality furniture to be provided for all work stations – minimum of two chairs and one table with shelves for each work station.
- (v) Steel Almirahs for storage

g) **IMAGE TRANSFER / NETWORKING:**

- i. DICOM send/receive with hospital PACS.
- ii. Query/retrieve
- iii. Basic print
- iv. HIS/RIS work list

h) **IMAGE STORAGE SERVER AND PROCESSOR:**

- i. Hardware to include 2 Dual Quad x 3 GHz processor, 3 terabytes or more storage. 4 GB RAM, with automatic archival systems & High speed volume rendering graphics card with 2 GB RAM.
- ii. The server should have either proprietary or reputed software (e.g Tera Recon), capable of advanced 3D processing and high end applications.
- iii. Archiving: Automatic Digital archiving of Data/ studies on CD-R, CD-RW, DVD-R, DVD-RW along with compatible drives and 1000 CD-RW and 1000 DVD-RW to be provided.
- i) Comprehensive central area radiation monitoring system

- j) One set of sources for calibration to last for at least 10 years - to be replaced as required.

- k) Dose Calibrator (Atomlab 400 Dose Calibrator / Capintec CRC 25 R) including radioactive reference/ quality control sources and Dose calibrator shielding rings (2.25" thick lead) (FDA approved)
- l) One digital  $\mu\text{Sv/hr}$  range GM based survey-cum-contamination monitors (FDA approved)
- m) One Survey meter for monitoring beta and gamma. Range 0-2R/hr with cable. (FDA approved)
- n) Four pocket digital pocket dosimeters.- Gamma & Beta. (FDA approved)
- o) Lead syringe shield for 2ml and 5ml syringes- 2 each.
- p) Shielded syringe carrier (lead shielding 3mm or more) - Two
- q) Table top L-bench for safe dispensing of radioactive material (standard size & lead shielding).
- r) Fume hood (standard size with 6mm lead on all sides) with sliding lead shield with lead window for radio pharmacy room. Interlocking lead bricks( with at least 2" lead thickness) 12"h x 48"w
- s) Interlocking painted lead bricks (for making 3 walled cave of 15"w x 17"d x 15"h or more with at least 2" lead thickness).
- t) Three Stainless steel foot operated lead lined waste bins with minimum 4mm lead on all sides.
- u) One Lead lined decay drums with minimum 6mm lead on all sides.
- v) One decontamination kit including Niptong & forceps.
- w) High resolution color laser printer for color hardcopy on paper with 5 sets of all cartridges- two no.
  - x) A complete computerized treadmill system (FDA approved) with non-invasive BP monitoring. 100 rolls of ECG paper with boxes.
  - y) Resuscitation trolley with defibrillator & vital signs monitor.
  - z) Three phase Modular Uninterrupted power supply (UPS) of reputed firm for the whole system (SPECT and CT including accessories), with maintenance free batteries of reputed make, having at least one hour back-up time. One extra set of batteries of reputed make (for the UPS) to be supplied after 2-3 years.

#### **PART H: UPGRADING REQUIREMENTS**

Upgrades: A free comprehensive software upgrade guarantee for five years from commissioning of the scanner must be provided free of cost.

#### **PART I: TURNKEY**

**Turnkey** (The supplier shall be required to undertake all the interior work in the SPECT/CT rooms as per the regulatory requirements) (**Copy of AERB approved Map in annexure-A**)

**i. Civil work: In the civil work following works are to be undertaken.**

- a. The walls should be finished with acrylic / plastic emulsion as per AERB requirement. The walls in the patient's waiting area should be finished with vitrified tiles up to 6 feet level.
- b. The flooring in the SPECT/CT room and SPECT radio chemistry should be as per AERB regulations. Flooring of other rooms shall be of vitrified tiles of 60 x 60 cm size of reputed make like Johnson / Kajaria / Naveen.
- c. Demarcated SPECT/CT area shall be finished with fire resistant metallic false ceiling (Armstrong/Lindner/Dexume) (ISI/BIS)
- d. All the doors (with lead sheet wherever required as per AERB approved map) should be provided with necessary fittings. Other doors with hydraulic type door closures (DORMA / equivalent Make) and with Mortised locks of Godrej / equivalent reputed make.
- e. Proper signage both external and internal

**ii. Plumbing work has to be carried out as per requirement.**

The waste pipes and accessories should be of centrifugally cast iron of ISI make and the connection of existing main hole in the public health shafts shall be done. All water pipes shall be Galvanized iron of TATA / equivalent make and filling shall be SUW / UF/ UNIK make. The grating shall be chrome plated. All CP fittings shall be of EBONY / Jaguar / ESSCO.

**iii. Electrical work:**

- a. The firm is required to specify load requirement i.e., required for the SPECT/CT, air conditioning, room lighting and for the accessories, if any.
- b. Suitable air conditioner(s) (carrier/ Hitachi/ voltas/Daikin/Ogeneral/ Emerson/ Bluebox/ Stulz/ Hiross) to be provided in SPECT/CT equipment room and console room to maintain ambient temperature and humidity as per equipment(s) requirements. Extra air conditioner(s) of same strength as above to be provided as back up for SPECT/CT equipment room and console room.
- c. Only ducting of central air conditioning to be done in rest of the rooms of SPECT/CT facility.
- d. Earthing with copper plates/ strip is to be provided for the main equipment as per requirements.
- e. A distribution panel of standard make and appropriate capacity shall be provided for main equipment with complete cabling, terminal, earthing etc. and any other items to complete the work.
- d. The switch gears (MCBs / ACBs / MCCBs) should be of Siemens / Hager (L&T) / ABB make. L.T. distribution board for MCBs etc. should be of Siemens / Hager (L&T)/ ABB make
- f. Electrical wires (ISI/BIS approved) should be of copper of different capacity as per the international load requirement and should be of Finolex / polycab / L&T make.
- g. Modular range Switches / Sockets of MK / North West / Ancor (wood) should be provided and fixed as per requirement (ISI/BIS).
- h. General lights (in adequate number for providing LUX as per NBC) should be of LED mirror optic reflector type of Philips / wipro / Crompton make. Light dimmers (down lighters) should also be fixed in the SPECT/CT equipment room. (ISI/BIS)
- i. CCTV system (Honeywell/Seimens/Scheider electric/Bosch) for patient waiting areas with control in console room. Music and Public Address system (Sony /Philips/ Harmon/ Bosch) for calling / informing the patients in the patients in the waiting areas.

**iv. Miscellaneous** (The vendor should also include the following in the scope of work)

- a. Ultrasonic Pest repellents to be provided and installed.
- b. Furniture and fixtures for all the area should be provided as per requirement. Furniture and other items, mentioned should be of Godrej / equivalent reputed make.

**v. Room Layout**

A typical layout plan (with dimensions) showing the placement of all specified hardware, including SPECT /CT, consoles, data acquisition / processing workstations, any imaging table(s) and rails along with details of computer furniture, conduiting and earthing etc. would have to be provided to the hospital /appropriate authority. Renovation of room(s) would have to be done as mentioned above after the obtaining the approval of the plan by the hospital / appropriate authorities

**vi. Defect liability of turnkey works**

- a. The turnkey work including installation / commissioning of all the turnkey items should be completed within 3 months.
- b. Certification to the effect that the work has been executed as per the specifications incorporated in the above document will be by the HSCC Ltd. / and Safdarjang Hospital.
- c. The warranty and AMC of air Conditioners will form part of main equipment.
- d. Comprehensive maintenance contract for whole system for a period of FIVE years after the expiry of warranty period at **Part E** shall include CMC of air conditioners also.

**PART J: DISPUTES, IF ANY**

Disputes of any nature from either side, arising out of any situation in this matter, shall be restricted to the legal jurisdiction of Delhi. The Principals shall commit to proceed with/defend their case within the legal jurisdiction of Delhi, if the situation arises.

**Technical Specifications for PET/CT TO BE INSTALLED ON TURNKEY BASIS in Department of Nuclear Medicine, Super Specialty Block, V.M.M.C. & Safdarjung Hospital, New Delhi.**

<b>1 Description of Function</b>
<p><b>1.1 It combines two scanners -- the PET (Positron Emission Tomography), which shows metabolism and the function of cells, and the CT (Computed Tomography), which shows detailed anatomy -- into one.</b></p> <p><b>For example, the PET scanner can provide critical information about the metabolic function of cancer cells, and can detect very small tumors, but not the exact location.</b></p> <p><b>The CT scanner, however, provides that anatomic information. So the combination PET/CT scanner gives doctors a powerful new system for detecting and diagnosing conditions like cancer earlier and more accurately, increasing the patient's chances of a good outcome</b></p>
<b>2 Operational Requirements</b>
<p><b>2.1 1. Integrated PET and multi-slice spiral CT scanner designed to provide accurate registration and fusion of high-resolution PET and CT images.</b></p> <p><b>2. Should be capable of functioning as a CT scanner or PET scanner alone as required.</b></p> <p><b>3. The CT component should comprise a whole body Multi slice CT scanner, capable of obtaining 64 slices or more per rotation.</b></p> <p><b>4. The PET component should be capable of imaging all applicable PET radio-pharmaceutical agents.</b></p>
<b>3 Technical Specifications</b>
<p style="text-align: center;"><b>3.1 PET SPECIFICATIONS:</b></p> <p style="text-align: center;"><b>Tunnel length: specify length (short to avoid claustrophobia)</b></p> <p style="text-align: center;"><b>DETECTOR ASSEMBLY at least 64 rows of detectors or more</b></p> <p style="text-align: center;"><b>Type: specify: LSO/LYSO</b></p> <p style="text-align: center;"><b>Size of crystal: thickness &gt; 20mm</b></p> <p style="text-align: center;"><b>No. of detector rings: please specify</b></p> <p style="text-align: center;"><b>No. of crystals per ring : please specify</b></p> <p style="text-align: center;"><b>Total No. of crystals : please specify</b></p> <p style="text-align: center;"><b>Gantry aperture: at least 70 cm</b></p> <p style="text-align: center;"><b>SYSTEM PERFORMANCE Should follow NEMA NU2-2007 or later recommendations</b></p> <p style="text-align: center;"><b>Axial FOV (cm): at least 150mm</b></p> <p style="text-align: center;"><b>Transaxial FOV (cm): &gt; 65cm</b></p> <p style="text-align: center;"><b>No. of Image Planes: please specify</b></p> <p style="text-align: center;"><b>Plane Spacing (mm): please specify</b></p> <p style="text-align: center;"><b>Transverse resolution (mm): &lt;5 mm</b></p> <p style="text-align: center;"><b>Axial resolution (mm): &lt; 5 mm</b></p> <p style="text-align: center;"><b>Uniformity: &lt; 5% (optional)</b></p> <p style="text-align: center;"><b>Scatter fraction &lt; 40%</b></p> <p style="text-align: center;"><b>Sensitivity (cps/KBq): at least 5 cps/kBq &amp; above</b></p> <p style="text-align: center;"><b>Count rate NECR Peak (kcps): please specify</b></p> <p style="text-align: center;"><b>Coincidence window (nsec): less than 6 ns</b></p> <p style="text-align: center;"><b>Reconstruction time : please specify</b></p> <p><b>Acquisition must include static, dynamic, whole body and respiratory gated acquisition</b></p>

- a. Volume acquisition
- b. Combined PET/CT operation
- c. Automated multi-bed acquisitions
- d. Automatic PET initialization following CT

**Combined PET/CT whole body protocols**

- a. Store function for multiple user-defined combinations of CT and PET protocols
- b. Capability for arbitrary combination of Multiple CT and PET Protocols

**PET Exam planning**

- a. PET bed planning based on Spiral CT acquisitions
- b. Selection and positioning of PET examination ranges on CT topogram should be possible

**Data Corrections and Reconstruction- to start simultaneously with acquisition**

- a. CT based attenuation correction
- b. Scatter correction
- c. Decay correction
- d. Dead time correction
- e. Detector efficiency normalization
- f. FORE/OSEM/LORS reconstruction

**Image Display**

- a. Whole body viewer with standing MIP views
- b. Number of orthogonal views should be possible
- c. PET-CT image fusion of co—registered data
- d. Color management with gamma correction, color maps
- e. SUV analysis

**Maintenance and Quality control**

- a. Automated calibration of PET and CT detectors and electronics.
- b. Automated daily quality assurance of PET acquisition system
- c. Acquisition of normalization and well counter calibration data

**3.2 CT SPECIFICATIONS**

**1.GANTRY**

**Aperture: 70cms or more**

**Rotation Mechanism**

**Scan Field: 40 mm or more**

**Rotation Time: less than or equal to 0.4 sec**

**Bi-way Patient Communication System : in multiple languages**

**Integrated cooling system with heat dissipation outside the Gantry Room Must have light field localizer**

**2.GENERATOR**

**Type: please specify**

**Maximum Power:  $\geq$  70KW**

**3.TUBE (DUAL FOCUS)**

**Type: please specify (stationary/rotating)**

**Focal Spots size: please specify**

**mA range: 40-600 mA**

**Tube Voltage kV range: 80- 140 kV**  
**Anode heat storage capacity: at least 6MHU**  
**Computer Control anode temperature monitoring**

#### **4.DETECTOR SYSTEM**

**At least 64 rows of detector with 128 slice acquisition per rotation.**  
**Type of detector: please specify (scintillator/photodiode or scintillator/PM tube)**  
**Type of scintillator: please specify**  
**Number of elements: at least 42000**  
**Number of Projections: at least 128**  
**Number of Detector Channels: at least 64**

#### **5.PATIENT TABLE**

**Flat table top**  
**Minimum table top height: please specify**  
**Scanable length (Metal free): at least 180cm**  
**Maximum Patient Weight: 190 kg or more**  
**Indexing Accuracy : please specify**  
**Random feed: please specify**  
**Remote control table feed in steps of 1 mm: please specify**  
**Scout film, topogram or scanogram length : please specify**  
**Longitudinal table movement: please specify**  
**Longitudinal table speed: please specify**

#### **6.IMAGE ACQUISITION AND RECONSTRUCTION**

**Option for acquisition in List mode must be there**  
**Volume acquisition: please specify**  
**Real time reconstruction : please specify (it should be faster)**  
**Slice thickness (mm): please specify**  
**Scan field (cm): please specify**  
**Reconstruction field (cm): please specify**  
**Reconstruction matrix: please specify**  
**Reconstruction: Iterative type**  
**Option for reconstruction using T.O.F must be there**  
**Must have automatic patient dose reduction facility**

#### **7. IMAGE DISPLAY**

**Monitor (at least 19" Flat Screen)**  
**Monitor resolution: 1024x1024 or better**  
**Image display matrix: multiple options including 512 x 512 and 1024X1024**  
**Pixel size (mm) : please specify**  
**CINE display**  
**Cine image rate : please specify**  
**Filming (Interactive and automatic)**  
**Window width: please specify**

#### **8.PERFORMANCE OF SYSTEM (IMAGE QUALITY)**

**Spatial resolution (High resolution) : please specify**  
**Low contrast resolution for full FOV: please specify**  
**Noise: please specify**



**9.COMPUTER AND ARCHIVING CAPCACITY**

**Capacity of system disc (GB) 2Terabyte, at least 10 TB image storage server Raw data (GB) 2 Terabyte**

**Image data ( No. images at 512 x 512 matrix): please specify  
Long Term storage (Preferably on CD-R)**

**10.SPIRAL SCANNING FACILITY**

**Longest continuous spiral scan time (at least 100 sec)**

**Fastest rotational speed: please specify**

**Minimum slice width: please specify**

**Length of continuous spiral scan (cm): please specify**

**Maximum spiral scan time (sec): please specify**

**Image quality (should be constant for the complete length of the spiral scan)**

**Pitch factor (volume Pitch): please specify**

**Max. number of ranges in Auto range: please specify**

**Number of scans per range: please specify**

**Max. number of images per range: please specify**

**Scan cycle time (sec): please specify**

**11.CLINICAL APPLICATION — FOLLOWING SOFTWARES REQUIRED**

**In addition system should have facility for**

**(These functions should be possible from Main console  
1024x1024matrix/workstation 3D Reconstruction and Display)**

**a. Shaded surface display**

**b. Maximum intensity projection**

**c. Minimum intensity projection**

**d. Volume rendering technique**

**Cine Display**

**Bone Mineral Density**

**CARE Bolus / Smart prep./ Any other equivalent facility**

**Real time Multiplanar Reconstruction and display**

**Volume measurements of tissues and organs**

**Quantitative lung evaluation**

**Pre and post processing filter functions**

**CT angiography with rotation facility**

**CT perfusion**

**Advanced vessel analysis for vessel and lesion quantification**

**Fly-through image software for airways, bowel (colonography) and vessels**

**Multi-modality image fusion (CT/MR, CT/PET)**

**Pediatric protocols**

**3.4 DICOM CONNECTIVITY**

**Connectivity to RIS/ PACS system, DICOM query, send, retrieve, modality work-list, store, print, DICOM-RT (connectivity to SYSTEMS LIKE Varis&Lantis networking systems: Cadplan/Eclipse [Varian], Brainscan [BrainLab], PLATO-Sunrise [Nucletron], Coherence [Siemens] etc. )**

**3.5 WORK STATIONS- 3 workstations/5 server based workstations with permanent multiple licenses**

**Should have display matrix of 1024x1024, with colour monitor**

**Software for Multiplanar and 3D image reconstruction in Gray scale and colour,**

<p><b>CT angiography</b>  <b>Having maximum and minimum intensity projection, volume rendering, multi-modality image fusion, and fly-through image software</b>  <b>Facility for multimodality image fusion including PET, SPECT, CT, IVIRI and ?USG Reporting monitor resolution: please specify</b></p>
<p><b>3.6 OTHER CAPABILITIES:</b>  <b>3D PET Imaging capability</b>  <b>Different type of acquisition mode for PET/CT: Static, Dynamic and Whole Body scan-dynamic imaging also must be possible for assessing tracer kinetics</b>  <b>Gated — ECG and Respiratory gated Static and Dynamic acquisition mode on PET/CT</b></p>
<p><b>4 System Configuration Accessories, spares and consumables</b></p>
<p><b>4.1 System as specified</b></p>
<p><b>4.2 PERIPHERALS</b></p>
<p>a. Automatic dual/triple headed Syringeless pressure injector for intravenous contrast injection- 2 in number</p> <p>b. Clinical Application software for Cardiac PET/CT, Brain PET/CT with normal databases1.</p> <p>c. Dry laser camera on LAN with facility of taking printout on film sizes at least 14"x17". One thousand films (14"x17" size) per year to be provided for five years.</p> <p>d. High resolution color laser printer on LAN for color hardcopy on paper with 5 sets of all cartridges- Two no.</p> <p>e. Advanced robotic positioning for PET / CT guided interventions (tissue biopsy/FNAC) ROBIO EXOR equivalent.</p> <p>f. Hardware and tools for PET/CT biopsy.</p>
<p><b>4.3 ESSENTIAL SPARE PARTS (Provide detailed list of spare parts supplied must include at least one X-ray tube)</b></p> <p>a. Various positioning aids including Head Rests, Head straps, set of two body straps, arm support and leg support, steps for patient to climb on the bed</p> <p>b. Infant immobilizers/positioning aid</p> <p>c. Quality Assurance phantoms &amp; Tools for CT &amp; PET including CATPHAN and anthropometric phantoms</p> <p>d. Head phantom, Body phantom and associated accessories to measure CTDI and DLP.</p> <p>e. Jasczczk phantom for PET/CT performance evaluation must have hollow spheres (each individually removable and tillable)</p> <p>f. NEMA phantom and associated accessories to perform QA as per NU-2007 and associated software to analyze QC parameters</p> <p>g. Multiple number of users definable scanning protocols</p> <p>h. Extended patient scheduling facility</p> <p>i. Manuals &amp; other charts</p>
<p><b>4.4 TheChiller system shall be provided along with the machine by the principals. No local system shall be accepted. This will also have a warranty of 5 years</b></p>
<p><b>5. Radiation Measuring, Safety Accessories</b></p>
<p>i. Two dose calibrators for PET radio pharmaceuticals (Atomlab 500 dose calibrator or equivalent) including radioactive reference \ quality control sources and dose calibrator shielding rings (2.25" thick lead).</p>

- ii. Two L- bench with lead glass for handling PET RPS.
- iii. One PET dose drawing system \ module for drawing F-18 /FDG from a vial in to a syringe (FDA approved )
- iv. One hundred no. painted Lead bricks and 8 lead corners for F- 18 handling
- v. One waste bin with minimum 12 mm lead on all side with sliding door for PET RPS waste
- vi. Two waste bins with minimum 6 mm lead on all side with hatch door for PET RPS waste
- vii. Lead vial shields for 10ml and 30ml vials - Two numbers each
- viii. Tungsten syringe shield (for PET RPS) ( $\geq 9$ mm tungsten ) -2cc & 5cc -2 no. each.
- ix. Shielded syringe holders for PET RPS -Two no. (Two each for 2ml, 5ml & 10ml)
- x. One digital  $\mu$ Sv/hr range GM based survey –cum – contamination monitors.(FDA approved)
- xi. Comprehensive central area radiation monitoring system) (FDA approved)
- xii. Six digital pocket dosimeters: easy to read with loud alarm and if required one dosimeter charger- Gamma & Beta. (FDA approved)
- xiii. PET sharps container with lead shielding – 2 no.
- xiv. One decontamination kit for PET RPS with SS Niptong & SS forceps.
- xv. Digital temperature and humidity control system- two no
- xvi. Light weight radiation protection aprons(FDA approved)- Two no
- xvii. High energy shielded decay drum (shielded with 0.5” lead for high energy isotopes) - two no.
- xviii. PET shipping system for VIAL PIG including vial pig (Lead shielding: sides & bottom:1”, Top: 1.75”) should meet DOT II type A packaging requirements- two no. (FDA approved)
- xix. Portable Shielded Barrier Laminar Flow Isolator: Full view shielded window, stainless steel inside and out, motorized height adjustable, for use with blood work, electric outlets in work area, HEPA air filtration, 0.25” inch Lead shielding. Exhaust transition kit for connection to external exhaust system. (FDA &/ European CE approved)
- xx. One Survey meter monitoring beta and gamma. Range 0-2R/hr. (FDA approved)

#### 6 Environmental factors

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

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

**6.3 The unit shall be capable of operating continuously in ambient temperature of 10 - 40 deg C and relative humidity of 15-90%**

#### 6.4 Complete installations should include:

1. Site study in advance prior to submitting the bid.
2. Electrical Requirements to be specified and substation to be made. Site visit a must before submitting the bid.
3. All AERB Clearances and Environmental clearances to be arranged with local authorities. Institute will provide all the documentations.
4. All other regulatory clearance will be coordinated by the supplier.

#### 7. Turnkey

**Turnkey (The supplier shall be required to undertake all the interior work in the PET/CT rooms and PET laboratory area as per the regulatory requirements)  
(Copy of AERB approved Map in annexure-A)**

**7.1 Civil work: In the civil work following works are to be undertaken.**

- a. The walls should be finished with acrylic / plastic emulsion as per AERB requirement. The walls in the patient's waiting area should be finished with vitrified tiles up to 6 feet level.
- b. The flooring in the PET/CT room and PET radio chemistry should be as per AERB regulations. Flooring of other rooms shall be of vitrified tiles of 60 x 60 cm size of reputed make like Johnson / Kajaria / Naveen.
- c. Demarcated PET/CT area shall be finished with fire resistant metallic false ceiling (Armstrong/Lindner/Dexume) (ISI/BIS)
- d. All the doors (with lead sheet wherever required as per AERB approved map) should be provided with necessary fittings, hydraulic type door closures (DORMA / equivalent Make) and with Mortised locks of Godrej / equivalent reputed make.
- e. Proper signage both external and internal

**7.2 Plumbing work has to be carried out as per requirement.**

The waste pipes and accessories should be of centrifugally cast iron of ISI make and the connection of existing main hole in the public health shafts shall be done. All water pipes shall be Galvanized iron of TATA / equivalent make and filling shall be SUW / UF/ UNIK make. The grating shall be chrome plated. All CP fittings shall be of EBONY / Jaguar / ESSCO.

**7.3 Electrical work:**

- a. The firm is required to specify load requirement i.e., required for the PET/CT, air conditioning, room lighting and for the accessories, if any.
- b. Only ducting of central air conditioning to be done in all rooms of PET/CT facility.
- c. Suitable air conditioner(s) (carrier/ Hitachi/ voltas/ Daikin / Ogeneral/ Emerson/ Bluebox/ Stulz/ Hiross) to be provided in PET/CT equipment room and console room to maintain ambient temperature and humidity as per equipment(s) requirements. Extra air conditioner(s) of same strength as above to be provided as back up for PET/CT equipment room and console room.
- d. Earthing with copper plates/ strip is to be provided for the main equipment as per requirements.
- e. A distribution panel of standard make and appropriate capacity shall be provided for main equipment with complete cabling, terminal, earthing etc. and any other items to complete the work.
- d. The switch gears (MCBs / ACBs / MCCBs) should be of Siemens / Hager (L&T) / ABB make. L.T. distribution board for MCBs etc. should be of Siemens / Hager (L&T)/ ABB make
- e. Electrical wires (ISI/BIS approved) should be of copper of different capacity as per the international load requirement and should be of Finolex / polycab / L&T make.
- f. Modular range Switches / Sockets of MK / North West / Ancor (wood) should be provided and fixed as per requirement (ISI/BIS).
- g. General lights (in adequate number for providing LUX as per NBC) should be of LED mirror optic reflector type of Philips / wipro / Crompton make. Light dimmers (down lighters) should also be fixed in the PET/CT equipment room. (ISI/BIS)
- h. CCTV system (Honeywell/Seimens/Scheider electric/Bosch)for patient waiting areas with control in console room. Music and Public Address system

(Sony/Philips/Harmon/Bosch)for calling / informing the patients in the patients in the waiting areas.

**7.4 Miscellaneous (The vendor should also include the following in the scope of work)**

- a. Ultrasonic Pest repellents to be provided and installed.
- b. Furniture and fixtures for all the area should be provided as per requirement. Furniture and other items, mentioned should be of Godrej / equivalent reputed make.

**7.5 Room Layout**

A typical layout plan (with dimensions) showing the placement of all specified hardware, including PET CT, consoles, data acquisition / processing workstations, any imaging table(s) and rails along with details of computer furniture, conduiting and earthing etc. would have to be provided to the hospital /appropriate authority. Renovation of room(s) would have to be done as mentioned above after the obtaining the approval of the plan by the hospital / appropriate authorities

**7.6 Defect liability of turnkey works**

- a. The turnkey work including installation / commissioning of all the turnkey items should be completed within 3months.
- b. Certification to the effect that the work has been executed as per the specifications incorporated in the above document will be by the HSCC Ltd. / and Safdarjang Hospital.
- c. The warranty and AMC of air Conditioners will form part of main equipment.
- d. Comprehensive maintenance contract for whole system for a period of FIVE years after the expiry of warranty period at T.S.No.:9.3 shall include CMC of air conditioners also.

**8.Power Supply**

**8.1 Power input to be 220-240VAC(Single Phase),/400-440 V (3 Phase)/ 50Hz as appropriate fitted with Indian plug at least160 kvA UPS with batteries, other accessories and manuals, to be installed and commissioned with a 5 year warranty**

**8.2 Rescuable over current breaker shall be fitted for protection**

**9Standards, Safety and Training**

**9.1 Should be FDA, CE,UL or BIS approved product**

**9.2 Performance parameters should as per latest NEMA NU2 2001 (National Electrical Manufacturers Association (NEMA)**

**9.3 Comprehensive warranty for 5 years and 5 years CMC after warranty from 6th to 10th Year inclusive of all parts including X-ray tubes and detectors**

**The vendor shall give a comprehensive, on-site warranty from the Principals for the first five years from the date of commissioning of the entire system (inclusive of vacuum and non-vacuum parts and all the locally supplied items including consumables like batteries of the UPS, printer cartridges etc). However, the Digital detectors, crystals, PM Tubes and the X-ray tube (for the PET and for the CT), shall carry comprehensive warranty for 10 years from commissioning.**

**Free labour warranty shall be provided for the next five years. Rates for comprehensive annual maintenance for the second five years' period SHALL be quoted separately on annual basis (covering for the components not already covered under 10 years warranty). Pro-rata warranty is not acceptable. Maintenance Contract offered by the local agents is also not acceptable.**

**A written agreement valid for five years for complete unit, signed by the manufacturer,**

shall be provided to guarantee that failures in materials and workmanship that occur within the warranty period will be corrected. Such failures will include those attributable to abnormal aging. Such warranties will not reduce or otherwise limit any other rights to correction which the purchaser may have.

Warranty, guarantee and service are considered as part of the bid specification. The contractor shall provide complete and specific details of maintenance operations performed under service contracts. The contractor shall provide estimated costs for yearly renewal and extended length (multiple years) contracts beyond the warranty period.

During the period of maintenance warranty, the supplier shall give a commitment for 95% uptime of the equipments as well as the accessories, calculated on annual basis. If the specified uptime mentioned above is not achieved, the warranty period will be extended by double the number of days for which guaranteed up-time period criteria was not met. However, if the machine lies non-functional for a period of more than one week continuously at any stage, the same penalty will be imposed even if 95% uptime clause is being met with for the given calendar year. **ANY BID WITHOUT AGREEING TO THIS WARRANTY AND PENALTY CLAUSES WILL BE SUMMARILY REJECTED.**

**9.4 Five new sets of sources for PET QC and calibration shall be provided on demand. Responsibility of disposal of the old sources shall lie with the vendor company**

**9.5 Shall comply with AERB and BARC guidelines including NEMA testing, CT QA and other machine related quality control parameters that the regulatory authority may additionally come up with in the next 5 years.**

**9.6 At the time of installation PET/CT QA test as per AERB requirement has to be performed by the provider.**

## **10 Documentation**

**10.1 User/Technical/Maintenance manuals to be supplied in English.**

**10.2 Certificate of calibration and inspection with validity of at least two years and recalibration free of cost till 5 years.**

**FDA and CE approval certificate**

**AERB type approval certificate for CT**

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

**10.4 List of Equipment available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.**

<b>Intra-Operative Color Doppler System</b>	
1	Should have High Resolution Imaging for Clinical needs
2	Should have speckle reduction technology for enhancing tissue margins for better anatomical visualization and to improve better organ anatomy from different angles.
3	Should have facility to connect at least two electronic and one single element transducers
4	Should support 360 degree scanning with compatible probes
5	Should have Automated Mode Adjustment for high resolution B mode image
6	Should have facility to compensate the motion related imaging artifacts
7	Should have DICOM Capabilities
8	Transducers should have programmable start and stop buttons.
9	Control panel should be sealed for easy cleaning and disinfection
10	Control panel should be illuminated for easy access
11	Should have an internal hard drive memory to store still & video images.
12	Should have height adjustable mechanism with control panel.
13	CD /DVD writer and USB Flash memory drive should be the part of the system.
14	Should be of latest generation quad beam digital technology.
15	The equipment must be European CE / USFDA certified.
16	Imaging Modes: System should have following modes:
a	B mode
b	M Mode
c	Color Doppler
d	Power Doppler
e	Pulsed Wave Doppler
f	Tissue Harmonic Imaging
17	The following transducers are to be supplied along with the scanner:
a	2-6MHz convex abdominal transducer with an autoclavable biopsy attachment
b	Transrectal transducer with simultaneous biplane imaging facility to visualize, sagittal as well as transverse planes of prostate gland. The same transducer should have an endfire array for scanning the apical areas of the prostate during nerve sparing lap radical prostatectomies. Transducer should compatible with standard sterilization methods like, immersion, ETO and Sterrad. A biopsy attachment for side fire as well as endfire arrays to be supplied.
c	A laparoscopic four way deflectable transducer which can be used through normal laparoscopic ports (10-12mm) with a biopsy facility to be supplied. Probe should be compatible with standard sterilization methods like immersion, ETO and Sterrad. Compatible biopsy attachment and flexible biopsy needles (at least 5nos) should be supplied.
18	<b>WARRANTY</b>
a	5 years warranty on all supplied items
b	5 years comprehensive maintenance charge (CMC) of all items.

## **HOLTER MONITORING SYSTEM**

Description of Function: Holter System is used to document ECG evidence of arrhythmia

Technical Specifications:

Monitor system specifications:

The system should have simultaneous and continuous acquisition of true 12 channels data for 24 Hrs, with facility to display / print 12 lead ECG at any point of time.

Should have beat to beat review of complete 12 lead presentations and all arrhythmia and ischemic events. It should also be capable of analyzing 3 lead using the same recorder.

Should employ multiple analysis such as retrospective, and bi-directional superimposition mode for at least two leads.

Should have Heart Rate variability, ST analysis and QT analysis including QT dispersion performed on all the 12 leads.

Should have SAECG facility for late potentials

System should have color coded rhythm analysis for various ventricular and supraventricular events including trend graphs for HR, RR intervals, RR variance, 12 leads ST, SVPB, and VPB.

Should provide automatic atrial fibrillation detection. Pacemaker analysis, atrial and Ventricular, capture failure, over sensing, under sensing.

Should have facility to re-label /edit templates also merge multiple templates as per users choice.

System should have an internal storage of full disclosure (Raw Data) of unlimited patients depending on the size of harddisk. It should be possible to copy / transfer the complete full disclosure Holter data to an external media, such as CD/DVD, etc.

The software should have the capability to create final summary report in PDF format for maintaining electronic patient records and integration with Hospital Information System.

System should have a Report pre-view capability to allow preparation / editing of final report, including comments, full disclosures and ECG strips. Final report should display and print beat labels above each beat.

Should have split screen for simultaneous viewing of Profile and ECG, with the provision of printing of ECG strips.

System should have calipers for measurements of amplitude, time and heart rate.

Patient Holter data down load/scan time should be less than 90 seconds.

Should be provided with latest PC with CD Writer, minimum 17" LCD/TFT monitor and should be able to print on ordinary laser printer. It should work on Windows XP / Window 7 operating system.

Original product catalogs with complete technical specifications to be enclosed for main and allied equipments being offered.

Optional:

Software package for risk assessment of sudden cardiac death

Short term holter recording

Online help for analysis and tutorials

Recorder Specifications:

Compact, Lightweight, should weigh less than 150 grams including battery and recordable media.

Should have graphic display to preview ECG waveform of multiple leads during patient hookup, lead quality (Impedance) check. Lead fail and Low battery indication. Online display of Time while recording.

Should be a digital Holter recorder and acquire true 12 lead (beat to beat) as per user choice for 24 hours of patient ECG.

Digital recorder should have a sampling rate of 10,000 samples/sec/channel for pacemaker spike detection.

Should work on a single AA alkaline/ Lithium battery for complete 48 hours recording.



- Quantity: 1. Monitor with analyzing software: 2 Nos  
2. UPS with battery backup for 30 min for whole system-2 Nos,  
3. Recorder including: 8 Nos each  
4. Memory card for acquisition of data for minimum 24 hours: 8 Nos  
5. Compatible card reader: 2 Nos  
6. Hotler pouch with shoulder strap: 8 Nos  
7. Connecting cable and accessories-Eight (8 Nos)  
8. Laser Printer: 2 Nos  
9. Good quality computer table(Durian/Godrej etc) for the system-2 Nos

**D .Environmental factors**

1. Shall meet IEC-60601-1-2:2001(Or Equivalent BIS)General Requirements of Safety for Electromagnetic Compatibility. Or should comply with 89/366/EEC; EMCdirective.
2. The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity
- 3 The unit shall be capable of operating continuously in ambient temperature of 10 -40 deg C and relative humidity of 15-90%

**E. Power Supply**

1. Power input to be 170-270 V AC, 50Hz fitted with Indian plug.

**F. Standards, Safety and Training**

1. Should be US FDA approved product
2. Manufacturer/Supplier should have ISO certification for quality standards.

**G. Documentation**

1. User/Technical/Maintenance manuals to be supplied in English.
2. Certificate of calibration and inspection.
3. Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
4. List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
5. List of important spare parts and accessories with their part number and costing.

**H. Other requirements**

Model should be latest generation.

Should have local service facility.

comprehensive warranty for 5 years and AMC/CMC for next five years.

Availability of spares to be ensured for minimum 10 years period

Demonstration to be given before approval, if required. And also working demonstration after installation is must.

### **Technical Specification for Spine Operation Table**

Fully radiolucent modular table for spinal surgery. Should be versatile for lateral positioning, prone and supine of all types of cervical, dorsal and lumbar spine surgeries. Anterior and posterior approach by 180 / 360 rotating of patient on table top. C- Arm compatible offering free unhindered movement on the C-Arm. Battery Operated, Remote Controlled. The mechanism of operating table should be completely oil free motor driven. Should have interchangeable and replaceable table tops for specific surgery procedures.

#### Dimensions and limits:

1. Patient maximum safe working load : 150 kg or more.
2. Table height : 650 mm to 1000 mm & above
3. Position for Trendelenburg / Anti Trendelenburg
4. Lateral Tilt : 20 - 25 °

The table must come with the following equipment's and accessories :

- 1) Radiolucent Table Top
- 2) Centrally locking castors
- 3) Display units should be provided
- 4) Patient Chest Pad – 2
- 5) Cervical traction Vector – 1
- 6) Universal Side Rail adaptor – 2
- 7) Cervical Management Base Unit – 1
- 8) Anterior Extension Positioner, pad – 1
- 9) Skull Clamp – Aluminium – 1
- 10) Medical pillow for positioning
- 11) Clark socket – 2
- 12) Wilson Frame Cover in Silicon – 1
- 13) Lateral Arm Board set with Pads – 1
- 14) Cross Arm support with Pads – 1
- 15) 3 piece Lateral Positioner along with 2 side Rail Clamps and One Clark Socket – 1
- 16) Rail mounted IV Pole
- 17) Anaesthesia Screen
- 18) Mayfield adaptor with skull clamp with positioner
- 19) Attachment with pad for paediatric patients
- 20) Body positioners for probe position including lap supports
- 21) Safety straps to be provided
- 22) Equipment Cart – 1
- 23) Rates of all consumables if any to be freezed for 5 years, and to be quoted in tender document.
- 24) European CE & USFDA approved
- 25) Physical demonstration (if required)
- 26) Warranty 2 years + CMC 5 years
- 27) L1 will include CMC cost also.
- 28) Preventive maintenance every 3 months with log book entry
- 29) Company should have service centre in Delhi/ India and should provide service 24x7.
- 30) Spares parts should be available for 10 years
- 31) Should have installation at minimum two centres (Govt or Private) and should submit installation and performance certificate.

**SPECIFICATION OF CUTTING INSTRUMENTS****Total Requirements – Six Sets**

S.No	Name of instruments	Quantity
1.	Allis forceps 6"	Twenty
2.	Curved mosquito forceps 4"	Twenty
3.	Medium curved artery forceps 6"	Twenty
4.	Medium straight artery forceps 6"	Twenty
5.	B.P Handle - No. 3, No. 4, No. 11	Ten
6.	Tissue cutting scissors 7"/8"	Ten
7.	Suture cutting scissors 7"/8"	Ten
8.	Potts scissors 220mm 45degree angle	Ten
9.	Needle holder long 12"	Twenty
10.	Rider Needle holders long 12"	Twenty
11.	Rider Needle holders long 8"	Twenty
12.	Mallable fistula probe	Ten
13.	Adsons tissue forceps 8" tooth	Ten
14.	Adsons tissue forceps 8" Non tooth	Ten
15.	Adsons tissue forceps 6" tooth + non tooth	Six
16.	Towel clip long	Twenty
17.	Ovem forceps 10"	Ten
18.	Moniyon long artery forceps	Twenty
19.	Chittle forceps 30cm	Ten
20.	Chittle forceps container metal (jar)	Ten
21.	Robert artery forceps	Ten
22.	Intestinal clamps (straight + curved)	Ten Sets
23.	Bile duct dilator set	Six
24.	Kidney clamp 12"	Five
25.	Kidney stone forceps	Five sets (each of five pieces)
26.	Skin hook gillies + blunt	Ten
27.	Sponge holder	Five
28.	Proctoscope	Ten
29.	Suction tip small	Ten
30.	Humby's / Watson knife handle	Ten
31.	Thyroid retractor	Five
32.	Deves retractor set	Five sets
33.	Laghenberg retractor	Five
34.	Abdominal self retaining retractor	Five
35.	Kilner's retractor	Five
36.	Moris retractor	Five
37.	Zerney's retractor	Six
38.	Lip retractor	Six
39.	Lung retractor	Six
40.	Doyen's retractor	Six
41.	Mastoid retractor	Six
42.	Cats paw retractor	Six
43.	Malliable abdominal retractor	Six
44.	Pelvis retractor	Two sets

45.	<b>Rigid laminectomy retractor</b>	<b>Four</b>
46.	<b>'S' shape retractor</b>	<b>Six</b>
47.	<b>Rib approximator (adult size)</b>	<b>Four</b>
48.	<b>Rib retractor</b>	<b>Four</b>
49.	<b>Rib cutter</b>	<b>Four</b>
50.	<b>Rib respiratories 240mm (left &amp; right)</b>	<b>Four sets</b>
51.	<b>Periostium elevator</b>	<b>Four</b>
52.	<b>Bone chessel diff sizes</b>	<b>Six</b>
53.	<b>Bone cutter</b>	<b>Six</b>
54.	<b>Mallet</b>	<b>Six</b>
55.	<b>Bone curette</b>	<b>Six</b>
56.	<b>Bone filer</b>	<b>Six</b>
57.	<b>Bone nibbler</b>	<b>Six</b>
58.	<b>Bone holding forceps</b>	<b>Six sets</b>
59.	<b>Bladder neck retractor</b>	<b>Four sets</b>
60.	<b>Amputation saw (gigley's)</b>	<b>Four</b>
61.	<b>Cervical dilator set</b>	<b>Four</b>
62.	<b>Vena cava clamp (debakey) 125, 155, 165, 260mm</b>	<b>Ten each</b>
63.	<b>Satinsky vascular clamp (straight, angle &amp; curved)</b>	<b>Ten each</b>
64.	<b>Right angled artery forceps 6", 7"/8"/12" fine tip (martin)</b>	<b>Ten each size</b>
65.	<b>Bull dog clamps 38, 48, 56mm</b>	<b>Twenty each size</b>
66.	<b>Bab cock forceps</b>	<b>Ten</b>
67.	<b>Mouth gag</b>	<b>Ten</b>
68.	<b>Basin stand</b>	<b>Two</b>
69.	<b>Basin stainless steel</b>	<b>Two</b>
70.	<b>Dressing drums (steel)</b>	<b>Four</b>
71.	<b>Dressing Jar</b>	<b>Four</b>
72.	<b>Dressing tray steel</b>	<b>Twenty</b>
73.	<b>Kidney tray</b>	<b>Twenty</b>
74.	<b>Vein stripper set</b>	<b>Twenty sets</b>

### **Quality Criteria for instruments**

1. All instruments should be high quality, US FDA / European CE and ISO 9001 certified to ensure quality standards.
2. All hand / fine instruments – tungsten coated mandatory
3. Demonstration of fine instruments should be given
4. Warranty for five years except wear & tear
5. Manufacturing defect instruments should be replaced.
6. All instruments offered should promise a long life on their functionality and workmanship quality.
7. Item Code and Manufacturer name should be engraved on the instruments.
8. The Manufacturing material type should be stainless steel 18/8, antimagnetic, and acid-resistant.
9. Compatible Sterilisation Containers shall also be provided by the same manufacturer.
10. The instruments should be accordingly to ASTM standard A 967-05 for passivation process.
11. Compatible sterilization container should be of International Standards certificates like:
  - ISO 11607 Part 1 & 2

- EN 868 Part 8
- DIN 58953 Part B
- CE Marking in accordance with EU directive 93/42/EEC (MDD)
- Approved for steam sterilization procedure according to EN 285 and validated according to ISO 17665 Part 1
- The barrier of the container should be autoclavable.

**SPECIFICATION OF GENERAL SURGERIES INSTRUMENTS****Total Requirements – Six Sets**

S.No	Name of instruments	Quantity
<b>A</b>	<b>Retractors</b>	
1.	Abdominal self retaining retractor	Fifteen
2.	Kelly's retractor	Twenty Five
3.	Lengenbeck retractor (all sizes)	Forty Five
4.	Czerney's retractor	Twenty six
5.	Dever's retractor (all sizes)	Thirty five
6.	Doyen's retractor	Twenty six
7.	Vein retractor	Twenty
8.	Malliable retractor	Twenty six
9.	Lip retractor	Six
10.	Lung retractor	Eighteen
11.	Mastoid retractor	Six
12.	Thyroid retractor	Five
13.	Cats paw retractor	Six
14.	Chest retractor blade & fixator	Ten
15.	Rib approximator with screw	Ten
16.	Rib respatony Rt. & Lt.	Ten sets
17.	Rasper	Six
18.	Pelvis retractor	2 Sets
19.	Rigid laminectomy retractor	Four
20.	'S' shape retractor	Four
21.	Bladder neck retractor	Five pices
22.	Eyelid retractor	Twenty four
23.	Skin hook gillies + blunt	Ten
<b>B</b>	<b>Bone related instruments</b>	
24.	Bone cutter	Sixteen
25.	Rib cutter	Four
26.	Bone holder	Sixteen
27.	Bone nibbler	Thirty
28.	Bone filer	Sixteen
29.	Bone curette	Thirty
30.	Mallet	Six
31.	Bone chisel (different sizes)	Six
32.	Periosten elevator	Fourteen
33.	Giglie's saw (amputation)	Four
34.	Humbey's knife	Sixteen
<b>C</b>	<b>Forceps</b>	
35.	Long dissecting forceps Tooth	Twenty
36.	Long dissecting forceps non-toothed	Twenty
37.	Russain forceps (Russian)	Twenty
38.	Addison forceps 8" tooth	Twenty
39.	Addison forceps 8" non-tooth	Twenty
40.	Addison forceps 6" (tooth + non-toothed)	six
41.	Martin forceps	Twenty four
42.	Allis forceps - Long	Seventy two

	- Medium	Ninety two
43.	Peripheral artery forceps	Twenty four
44.	Artery forceps - straight - Medium 6'' (Curved) - Mosquito 4'' (Curved)	One hundred twenty Eighty Sixty
45.	Right angle forceps - Long - Medium	Twelve Twelve
46.	Roberts artery forceps	Fifty eight
47.	Babcock's forceps	Forty eight
48.	Kochers artery forceps	Forty eight
49.	Ovem forceps 10''	Ten
50.	Lung holding forceps	Twenty four
51.	Chittle forceps 30cm	Ten
52.	Chittle forceps container metal (jar)	Ten
53.	Intestinal clamps - straight - curved	Thirty four Thirty four
54.	Sponge holding forceps	Forty eight
55.	Towel clips	One hundred twenty
D	Scissors	
56.	Tissue cutting scissors – Long 8'' - small 7''	Eighteen Eighteen
57.	Mayo scissors - Long - Small	Twelve + Ten Twelve + Ten
58.	Poll's scissors 220mm 45 degree angle	Ten
59.	B.P Handle - No. 3 - No. 4 - No. 11	Thirty four Thirty four Ten
E	Needle holder	
60.	Needle holder - long 12'' - Middle 8'' - Small 6''	Fourty four Twenty four Twenty four
61.	Rider Needle holders - Long 12'' - Long 8''	Twenty Twenty
F	Rectal	
62.	Proctoscope	Sixteen
63.	P.P.E sizer (anal dilator) all sizes	Six
64.	Maleable fistula probe	Ten
G	Renal /Prile instruments	
65.	Bile duct dilator set	Six
66.	Kidney clamps 12''	Six
67.	Kidney stone forceps	Five sets (each of five pieces)
68.	Suction tip small	Ten
69.	Punch biopsy	Six
H	Vascular	

70.	<b>Bull dog (all sizes – 38,48,56mm)</b>	<b>Forty each sizes</b>
71.	<b>Pedical clamp</b>	<b>sixty</b>
72.	<b>Stensky clamp - Straight</b> - Angle - Curved	<b>Twenty</b> <b>Twenty</b> <b>Twenty</b>
73.	<b>Vena cava clamp (debakey) 125, 155, 165, 260mm</b>	<b>Ten each</b>
I	<b>Other</b>	
74.	<b>Cervical dilator sets</b>	<b>Four</b>
75.	<b>Vein striper set</b>	<b>Twenty</b>

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  - Approved for steam sterilization procedure according to EN 285 and validated according to ISO 17665 Part 1
  - The barrier of the container should be autoclavable.



**SPECIFICATION OF INSTRUMENTS REQUIRED FOR LAPAROSCOPIC SURGERIES****Total Requirements – Six Sets**

<b>S.No</b>	<b>Name of instruments</b>	<b>Quantity</b>
1.	Monitor with camera head L.C.C.U	One
2.	Electronic co2 laproflotor	One
3.	Xenon light source	One
4.	Suction irrigation machine	One
5.	Fibrotic cables	Four
6.	CO2 cylinder	Four
7.	Veres pneumoperitonuim needle	Twenty
8.	Trocars – 5mm, 5.5mm, 10mm, 11mm, 11.5mm, 12mm	Ten each
9.	Blunt trocars / 10mm/ 11mm/ 12mm	Ten each
10.	Maryland grasping forceps	Ten
11.	Plane grasping forceps	Ten
12.	Tooth grasping forceps lock	Ten
13.	Allice grasping forceps	Ten
14.	Bebcock grasping forceps	Ten
15.	Bowel grasping forceps	Ten
16.	Gall bladder extractor	Eight
17.	Clip applicator – 400, 300, 200	Ten each
18.	Hook electrodes	Ten
19.	Spatula electrodes	Ten
20.	Metzenbum Scissors	Six
21.	Hook scissors	Six
22.	Mixture forceps	Six
23.	Biopsy forceps	Six

24.	Suction and irrigation nozzle	Four sets
25.	Fan Retractors	Two
26.	Needle holders	Four
27.	Bi-polar forceps	Four
28.	Aspiration needle	Ten
29.	Hassan cone	Ten
30.	Monopolar cables	Eight
31.	Fenestrated grasping forceps	Six
32.	Instrument cleaning brush (laparoscopic)	Twenty
33.	Telescope – 0 degree 5mm/10mm 30 degree 5mm/10mm	Two each Two each
34.	Ovem forceps	Four
35.	Chambers for lap instruments	Four
36.	Lap instrument dish	Two
37.	Reducers of 10mm / 11mm	Twenty each
38.	Right angle forceps 90 degree long tip	Eight
39.	Right angle forceps 90 degree short tip	Eight

<b>S.No</b>	<b>Name of instruments</b>	<b>Quantity</b>
	<b>Disposable Items of Lap.</b>	
1.	Trochar – 3mm, 5mm, 10mm, 12mm	Twenty each
1 (A)	Hadson Trochar	
2.	Ring washer – 5, 5.5, 10, 11, 12	Twenty each
3.	Washers inner outer – 5, 10, 12	Twenty each
4.	Monopolar cable	Eight
5.	Bipolar cable	Eight
6.	Hook	Twenty
7.	Spatula	Twenty
8.	Scissor	Ten
9.	Bipolar forceps	Ten
10.	Camera cover	One thousand only
11.	Anti fogg	Ten
12.	5mm clip applicator pre loaded	Twenty
13.	Endo Bag	Hundred
14.	Endo loop	Fifty
15.	Linear cutler guns – 35, 45, 60a, 60b	Ten each
16.	Reload corteges - 35 blue, white - 45 orange, blue - 60 blue, white, green	
17.	Mash fixation devices – Tacker	Hundred

**SPECIFICATION FOR OPEN HEART SURGERY INSTRUMENTS SET (CTVS) – 6 SETS**

S.No.	Description	Qty
1	B. P. Handle #3 Holds blade 10,11,12,15 – Length – 5” (12.5cm) stainless steel (Matte)	1 no.
2	B. P. Handle #3 Holds blade 10,11,12,15 – Length – 8 <sup>3</sup> / <sub>8</sub> ” (22.3cm) stainless steel (matte)	1 no.
3	B. P. Handle #4 Holds blade 20 to 25– Length – 5 <sup>1</sup> / <sub>4</sub> ” (12.8cm)stainless steel (matte)	1 no.
4	B. P. Handle #7 Holds blade 10,11,12,15 – Length – 6 <sup>1</sup> / <sub>2</sub> ” (16.2cm)stainless steel (matte)	1 no.
5	Potts Smith Tissue Forceps 1x2 teeth serrated tips	2 nos.
6	Cushing forceps, sharp dissecting end, Gutsch handle 7”(17.6cm) – 1x2 teeth	2 nos.
7	Yankauer suction tube length – 11 <sup>1</sup> / <sub>2</sub> ” (28.9cm)	2 nos.
8	Cooley sump suction tube 13”(32.3cm) Should be entire tube removal from handle 7.5mm wide tip	2 nos.
9	Thoracic dissecting forceps length 8 <sup>1</sup> / <sub>4</sub> ” (20.7cm)D curved debakey jaw	2 nos.
10	Mixer forceps petit point, right angled length 7 <sup>1</sup> / <sub>4</sub> ” (18.1cm), full jaw serrations	2 nos.
11	Blunt Hooks – 2mm round tip 7” (17.5cm)long	2 nos.
12	Allis willauer tissue forceps 5x6 teeth, 10”(25.1cm) long	4 nos.
13	Tube occluding forceps with U shaped guard 5 <sup>1</sup> / <sub>2</sub> ” (13.7cm) long	12 nos.
14	Tube occluding forceps with U shaped guard 7 <sup>1</sup> / <sub>4</sub> ” (18.1cm) long	12 nos.
15	Tube occluding forceps with U shaped guard 8” (20.1cm) long	12 nos.
16	Towel Forceps with non perforating jaws – 4” (9.9 cm)	20 nos.
17	Kocher Forceps – 5 <sup>1</sup> / <sub>2</sub> ”(13.7cm)	12 nos.
18	Rochester – Oschsner Forceps – 8”(20.1cm)	12 nos.
19	Petit Point – Mosquito Forceps – 6” (15cm) long straight	20 nos.
20	Heiss Artery Forceps 8” (20.1cm) Straight	2 nos.
21	Woodward Thoracic Artery Forceps – 8 <sup>3</sup> / <sub>4</sub> ”(21.8cm) Slightly curved	1 no.
22	Chest Tube passer length 9 <sup>3</sup> / <sub>4</sub> ”(24.6cm) with ratchet	1 no.
23	Foerster sponge holding forceps 9 <sup>1</sup> / <sub>2</sub> ”(23.9cm) straight serrated	2 nos.
24	Wire cutter (Side cutting) tungsten carbide jaw edge 7”(17.5cm) maximum capacity – 0.59” (1.4cm)	1 no.
25	Allison lung retractor large – 12 <sup>1</sup> / <sub>2</sub> ”(31cm) , 2 <sup>1</sup> / <sub>8</sub> ”(5.3cm) wide	1 no.
26	Allison Lung retractor small – 10 <sup>1</sup> / <sub>2</sub> ”(26.4cm), 1 <sup>1</sup> / <sub>2</sub> ”(3.6cm) wide	1 no.
27	Cooley arterial valve retractor – Right angle width 7/8”(2cm), depth – 1- 7/8”(5cm)	1 no.
28	Cooley arterial valve retractor right angle width – 1 <sup>1</sup> / <sub>2</sub> ”(3.6cm), Depth – 2”(5cm)	1 no.
29	Cooley Arterial valve retractor – left angle width-2”(5cm), Depth – 1”(2.4cm)	2 nos.
30	Morse sternal retractor Child size, spread 6”(15cm), arm length – 4 <sup>7</sup> / <sub>8</sub> ”(12cm), Blade – 7/8”(2cm) x <sup>3</sup> / <sub>4</sub> ”(0.75cm) deep	1 no.

31	Morse sternal retractor Adult size spread – 9”(22.7cm), arm length – 5 ¾”(14.8cm) blade – 1 1/8”(4.8cm) x 1”(2.4cm) deep	1 no.
32	Favaloro Morse sternal retractor Adult Spread – 9”(22.7cm), Arm Length – 6”(15cm), Blade – 1 1/8”(4.8cm) x 1 ½”(3.6cm) deep	1 no.
33	Castaneda Sternal retractor arms & blades – aluminum, ratchet bar Stainless steel Neo born size , spread – 2 ½”(6.35cm), Arm length-2 1/8”(5.4cm), Blade – 1 ¼”(3.17cm) x 1/2”(1.2cm) deep	1 no.
34	Castaneda Sternal retractor arms & blades – aluminum ratchet bar Stainless steel Infant size –spread – 3 ½”(8.9cm), Arm length- 3 1/8”(3.92cm), blade – 1 ¾”(4.44cm) x 5/8”(0.62cm) deep	1 no.
35	Castaneda Sternal retractor arms & blades – aluminum ratchet bar Stainless steel Child size spread size – 4 1/8”(10.5cm), Arm length -5”(12.7cm), blade 2 3/8”(6.01cm) x 7/8”(0.9cm) deep	1 no.
36.	FINOCHIETTO Rib spreader , curved arm, Child size- Spread 5-3/8”(13.4cm). Arm length -5 1/4”(13.3cm), blade 1-3/4”(4.5cm) x 1-5/8”(4cm) deep	1 No.
37	FINOCHIETTO Rib spreader , curved arm, Adult size- medium Spread 7 -7/8”(19.8cm). Arm length -7- 1/4”(18.3cm), blade 2-1/2”(6cm)x 2-1/8”(5.2cm) deep	1 no.
38	FINOCHIETTO Rib spreader , curved arm, Adult size- Large Spread 7 -7/8”(19.8cm). Arm length -7- 1/4”(18.3cm), blade 2-1/2”(6cm)x 2-7/8”(7cm)deep	1 no.
39	Russian Tissue forceps -8”(20.32cm) long	1 no.
40	Russia tissue forceps 10”(25.4cm) long	1 no.
41	SATINSKY Vena cava clamp, length 9-3/4”(23.6cm), jaw length-2 “(5cm), depth 3/8”(0.93cm) Large	1 no.
42	SATINSKY Vena cava clamp, length 9-3/4”(24.6cm), jaw length-1- 3/8”(3.4cm), depth ¼”(0.5cm) Small	1 no.
43	De Bakey Aortic Aneurysm Clamp , 9- ½”(24cm) Debakey serration Jaw length 3-3/8”(8.3cm)	1 no.
44	De Bakey Aortic Aneurysm Clamp , 10-5/8”(26.5cm) Debakey serration Jaw length 3-3/4”(9.3cm)	1 no.

45.	De Bakey Aortic Aneurysm Clamp , 12''(30cm) 2x3 Debakey serration Jaw length 4-3/8''(10.8cm)	1 no.
46	De Bakey Aortic Aneurysm Clamp , 13 1/8''(32.8cm) Debakey serration Jaw 2X3 , length 5-3/8''(13.5cm)	1 no.
47	CUSHING forceps, semi sharp dissecting end, GUTSCH handle, tungsten carbide Tip – 7''(17.5cm) long angled	2 no.
48	DeBakey Forceps – 2mm Tip, length 7- 3/4''(18.5cm) angled	2 nos.
49	DeBakey Forceps – 2mm Tip, length 9- 1/2''(24cm) angled	2 nos.
50	Titanium DeBakey forceps , straight – 2mm tip , 9 1/2''(24cm) long	2 Nos.
51	Titanium DeBakey forceps , straight – 2mm tip , 7 3/4''(19.5cm) long	2 nos.
52	DeBakey – DIETRICH Vascular Tissue Forceps , Straight, Micro fine serration – 1mm Tip, length – 6''(15cm)	2 nos.
53.	DeBakey – DIETRICH Vascular Tissue Forceps , Straight, Micro fine serration – 1mm Tip, length – 7 3/4''(19.7cm)	2 nos.
54	DeBakey – DIETRICH Vascular Tissue Forceps , Straight, Micro fine serration – 1mm Tip, length – 9- 1/2''(24cm)	2 nos.
55.	DeBakey – DIETRICH Coronary Artery Forceps , Straight, Micro fine serration – 1.5 mm Tip, length – 6''(15cm)	2 nos.
56.	DeBakey – DIETRICH Coronary Artery Forceps , Straight, Micro fine serration – 1.5 mm Tip, length – 9-1/2''(24cm)	2 nos.
57.	DeBakey forceps – 2mm Tip , straight , length – 6''(15cm)	2 nos.
58.	DeBakey forceps – 2mm Tip , straight , length – 9 1/2''(24cm)	2 Nos.

59.	DESMARRES type valve retractor – 7- ¼”(17.8cm), 4mm wide, malleable	1 No.
60.	DESMARRES type valve retractor – 7- ¼”(17.8cm), 8 mm wide, malleable	1 No.
61	DESMARRES type valve retractor – 7- ¼”(17.8cm), 12 mm wide, malleable	1 no.
62	DESMARRES type valve retractor – 7- ¼”(17.8), 15 mm wide, malleable	1 no.
63.	ROSS Aortic Valve retractor – 10”(25.3cm) # 3 Blade ¾”(1.8cm) x 1”(2.4cm)	1 no.
64.	WEITLANER Retractor, Hinged blade 5 ½:”(13.7cm), 3x4 Blunt prong, 17 mm deep	1 no.
65	WEITLANER Retractor, Hinged blade 6 ¼:”(15.5cm), 3x4 Blunt prong, 18 mm deep	1 no.
66.	US Army – Navy Retractor 8 ¼”(20.5cm), double ended blade 5/8”(1.4cm) wide Set of 2	1 no.
67	LAHEY Thyroid Retractor 8”(20cm) blade, 1”(2.4cm) x ¼”(0.5cm) wide	1 no.
68	RECHARDSON Retractor , Loop handle – 9- 1/2”(24cm) BLADE ¾”(2cm) WIDE X 1”(2.4cm) Deep	1 no.
69.	RECHARDSON Appendectomy Retractor , Loop handle – 9- 1/4”(23cm) BLADE ¾”(2cm) WIDE X 2”(5cm) Deep	1 no.
70.	DIETRICH Micro Coronary Bulldog clamp, tension – 55gms, Fine serrated Jaws, 5.2 cm length, 10 mm(1cm) angled jaw	2 nos.
71.	DIETRICH Micro Coronary Bulldog clamp, tension – 55gms, Fine serrated Jaws, 5.4 cm length, 12 mm(1.2cm) angled jaw	2 nos

72.	DIETRICH Micro Coronary Bulldog clamp, tension – 55gms, Fine serrated Jaws, 6.0 cm length, 20 mm (2cm) angled jaw	2 nos
73	DIETRICH Micro Coronary Bulldog clamp, strong tension – 180 gms, Fine serrated Jaws, 4.4 cm length, 10 mm (1cm) angled jaw	2 nos.
74	STERNAL Needle holder & wire twister, tungsten carbide jaw , 6mm tip,length-7- ¾”(18.5cm), heavy duty	1 nos.
75	COOLEY BAUMGARTEN STERNAL Needle holder and wire twister, tungsten carbide jaw – 8”(20cm) heavy duty blunt jaw, textured tip	1 no.
76	MAYO-HEGGAR Needle holder-2500 teeth per squire Inch, tungsten carbide jaw, length – 8”(20cm)	4 nos.
77	PETIT- POINT RYDER Needle holder 4000 teeth per squire inch, 12mm, tungsten carbide jaw – 1 mm tip, length – 8”(20cm)	2 nos.
78	PETIT- POINT RYDER Needle holder 4000 teeth per squire inch, 12mm, tungsten carbide jaw – 1 mm tip, length – 9”(22.5cm)	2 nos.
79	Masson Needle holder, tungsten carbide jaw,length- 10 ½”(26.5cm), 2500 teeth per squire inch,	2 nos.
80	SAROT Needle holder, tungsten carbide jaw, length – 7 1/8”(18cm) 2500 teeth per squire inch	2 nos.
81	TUBBS Mitral Valve dilator, maximum blade opening 1- ¾”(4.2cm)	1 no.
82	DeBakey vascular dilator - 7- ½”(18.8cm) , 1.00 mm size	1 no.
83	DeBakey vascular dilator - 7- ½”(18.8cm) , 1.50 mm size	1 no.
84	DeBakey vascular dilator - 7- ½”(18.8cm), 2.00 mm size	1 no.



85	LILLEHEI-POTTS Scissors – 7”(17.5cm) long, curved blade, blunt tip	2 nos.
86	LILLEHEI-POTTS Scissors – 7”(17.5cm) long, curved blade, sharp tip	2 nos.
87	LILLEHEI-POTTS Scissors – 9”(22.5cm) long, curved blade, blunt tip	2 nos.
88	METZENBAUM ( NELSON) Scissors , tungsten carbide jaw, length – 9”(22.5cm) curved , bunt tip	2 nos.
89	METZENBAUM ( NELSON) Scissors , tungsten carbide jaw, length – 9”(22.5cm) curved , delicate tip	2 nos.
90	METZENBAUM ( NELSON) Scissors , tungsten carbide jaw, length – 10”(25cm) curved , bunt tip	2 nos
91	DIETRICH Coronary Artery Scissors, super cut – 7”(17.5cm) length, 13.5 mm(1.4cm) blade, 45 degree angled	1 no.
92	MAYO- HARRINGTON Scissors , length – 9”(22.5cm) , curved	1 no.
93.	MAYO- HARRINGTON Scissors , length – 11”(27.8cm) , curved	1 no.
94.	PSCVD mosquito Artory Curved 9.8cm	3 no.
95.	Nerve Hook Cushing 27cm	2no.

Points to be added :-

1. It should have been made up of pure and good quality German stainless steel.
2. It should have country origin should be mentioned on instruments. It should mention like (“ Made in \_\_\_\_\_”)
3. It should have Lot Number, Article Number, Company Name emboss on each every instruments.
4. It should be imported and it should have European CE and US FDA certified.

5. It should provide with sterilization container and wire basket, and the container should meet all international standards of quality and approved for steam sterilization procedure of EN 285.2008. as well as it should be from same parent company.
6. Company should have service facility in India & warranty period of 5 years.

## **Specification of Blood Gas & Electrolytes Analyzer**

A fully automatic, fast, precise blood gas analyzer with following features:-

1. Measured parameters : pH, PCO<sub>2</sub>, pO<sub>2</sub>, Cl, Na, K, Ca, Hct. Hb, Glucose, Lactate.
2. Calculated parameters: Std. pH, pCO<sub>2</sub>, pO<sub>2</sub>, CH<sub>+</sub>, HCO<sub>3</sub>, Std. HCO<sub>3</sub>, O<sub>2</sub> Sat, BEX, BE<sub>ecf</sub>, BB, O<sub>2</sub> content, TCO<sub>2</sub>, all at patient's temperature
3. Sample size: Not more than 100ul
4. Throughput: 40 samples per hour
5. Readout time: Less than 1 min.
6. Printer: In-built with preferably non-thermal paper
7. Calibration: Automatic in cycle system
8. Display: Digital display on the screen
9. Electrodes: Maintenance free with shelf life not less than 1 year
10. Memory: More than 100 patients memory

**SPECIFICATIONS FOR HIGH END DOPPLER ULTRASOUND UNIT WITH BIOPSY**

1. The system should be latest state of the art **high-end** with full digital technology and should be for the whole body applications which would include abdominal, peripheral vascular, small parts imaging such as Thyroid, Intra-cavity applications, etc. system should be trolley mounted.
2. The system should incorporate facility for high resolution 2D, 3D, 4D, M-mode, PW, HPRF PW, Color Doppler imaging, Power Doppler imaging, Duplex & Triplex imaging modes. The system should be capable of simultaneous dual display of B-mode & color mode.
3. All transducers should have Broad Bandwidth technology for extremely high resolution imaging. Frequency range of Transducers should be 2-17 MHz or more. All transducers should have multifrequency selection (Preferably more than three).
4. The system should have 30000 or more digital processing channels and the system should have 256 Grey Scale or more.
5. The system should have a scanning depth of 28 cms. or more.
6. The system should have a high dynamic range more than 180 dB.
7. The system should be able to support at least 3 transducers with universal ports allowing electronic switching between transducers.
8. The system should support Convex, Linear, Sector & Electronic Volume Probes.
9. The system should have a very high frame rate of at least 1000 frames per second in B mode and more than 200 fps in /Color mode. Please specify.
10. The System must have integrated high – resolution TFT/LCD/Single monitor of 19 Inches or more with tilt and swivel facility.
11. The system should have Tissue Harmonic imaging & should be available in Convex, Linear, Sector & Volume probes.
12. The system should be able to work in combined mode of Harmonic Imaging and Real time Compound Imaging to get excellent Image quality. The system shall offer Tissue Harmonic Imaging in Power Doppler Imaging mode.
13. The system should have contrast Harmonic Imaging and should have optimization settings to detect the Contrast Agents.
14. The system should have real time frequency and Spatial Compound imaging technology with multiple lines of sight to obtain the image at real time frame rates for improved visualization and better image quality.

15. The system should have image processing algorithms to analyse between targets and artifacts to as to sharpen target anatomy and reduce the speckle and artifacts for improved image quality.
16. The system should have a full alphanumeric keyboard/touch screen.
17. The system should have cine loop review facility in individual and mixed modes cine loop greater than 4000 frames and greater than 30 seconds of spectral Doppler and M mode. System should have 500 GB or more HDD.
18. The system should have the facility of digital storage and retrieval of B/W and color image data on built-in CD/DVD Drive.
19. Power Doppler Angio for perfusion studies should be available for visualization of flow in small vessels and system should be able to acquire flow in small blood vessels at very high frame rate.
20. The system should have automatic gain and STC/TGC controls in B-mode and velocity range and base line shift for Doppler through one touch operation.
21. The system should have trapezoidal imaging and steerable imaging for 2D image, Color box & Doppler with linear probe. Please mention the angle of steering for 2D & Color Box.
22. The system should have Panoramic imaging.
23. The System should be DICOM ready.
24. The system should have advanced 3D imaging package with the following :
  - a) Multi planner Views (MPR).
  - b) Surface & Volume rendering.
  - c) 3D grey scale (B-mode).
  - d) 3D power angio mode & 3D Color Doppler Mode.
25. The system should have Advanced 4D imaging package such as Live 4D, Single sweep, Multi-view (CT slice technology), Cavity mode etc. and system should be able to support all type of volume probes such as Convex Volume and TVS Volume Probe.
26. The system should have automatic real time quantification of Doppler Parameters like velocity, frequency, time, heart rate, slope, flow volume, pulsatility index, resistivity index, peak velocity, average volume, point value, area and diameter flow volume etc.
27. The system should have extensive calculation software package for general measurements, OBS,Gynae, Vascular, small parts & cardiac application.
28. Equipment with above mentioned features to be offered with following broad bandwidth probes & accessories:

- A. Broad band convex array transducer with frequency range 2-5 MHz. or better.
  - B. Broad band linear array probe with frequency range 7-17 MHz. or better.
  - C. Broad band transvaginal/transcrotal probe with frequency range 5-9 MHz. or better.
  - D. Convex Volume probe with frequency range 2-6 MHz. or better.
  - E. Color Laser Printer.
  - F. B & W thermal printer with 100 high density paper rolls.
  - G. 2.0 KVA on line UPS for complete unit with 30 min. backup.
29. Please attach the original manufacture's product catalog and datasheets. Photocopied, computer generated catalogue and datasheet will not be accepted.
30. Five years complete warranty for the entire equipment, probes and accessories which should include service as well as parts with 98% uptime. In case of downtime exceeding 2% it will be extended by double the down time
31. Five years CMC after the expiry of the warranty also to be quoted covering the complete system for which order is placed.
32. The quoted model should be USFDA and European CE approved product.
33. Machine should have shear wave/whole body arfi elastography and provided with linear & convex probes.
34. The short listed bidders will have to give demonstration of their quoted model before finalizing the evaluation of their bids.
35. Principal vendor to provide undertaking with regard to providing maintenance /service and availability of spares for 10 years for the equipment in case local vendor changes.

## Turnkey Works:

The Tenderer shall examine the existing site where the equipment is to be installed to assess the site condition for Equipment placement and installation. Whether the scope of Turnkey Works is mentioned in the Technical Specifications or not, the bidder's offer should be on a "Turn Key" basis including all costs associated with the supply, installation and commissioning of the equipment.

For equipment, the major Turnkey work to be carried out are given at the end of Technical Specification. The Tenderer to quote prices indicating break-up of prices of the Machine and Turnkey Job of Hospital/Institution/Medical College. The Turnkey 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 Turnkey Work should completely comply with AERB requirement, if any.

Bidders must take into consideration in its bid, the costs to be incurred for any additional work pertaining to civil, Electrical, Plumbing, sanitary, Radiation protection as per Govt. regulation, furniture, servo stabilizers, U.P.S. etc. required for successful installation testing and commissioning of the Medical Equipment and the "All inclusive lump sum price" should include all such costs, each **schedule/package** is to be considered a package in itself and suppliers to execute the order package on a "turn key basis" including all civil, electrical, air – conditioning & allied requirement for the equipment, at the site.

For X-Ray and related equipment, bidders who have Type Approval/NOC of AERB/BARC shall only be considered with documentary evidence. It shall be bidder's responsibility to get the equipment installed and commissioned as per AERB / BARC guidelines and installed and commission on "Turn Key basis". Bidders must take into consideration in its bid the costs to be incurred for any additional work viz. Electrical cabling, plugs of suitable ratings from the source, Electrical points of suitable ratings, water connection, water drainage, plumbing, air-conditioning, Radiation protection/shielding, mechanical & allied requirement for the equipment etc. required for successful installation, commissioning and running of the Equipment and the quoted "All inclusive lump sum price" should include all such costs.

## **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. b skilled
- c. c unskilled

Signature and seal of the Tenderer



## **Section – IX**

### **Qualification Criteria**

1. The tenderer must be a manufacturer or it's authorized Indian Agent. They may authorise their agent as per proforma of Manufacturer authorization form as given in the tender enquiry document to quote and enter into a contractual obligation.

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

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

#### **Note**

1. The tenderer shall give an affidavit as per Section-XIX of the TE document.
2. In support of 2(a) & 2(b), the Tenderer shall furnish Performance statement in the enclosed Proforma 'A'.

The manufacturer/Indian Agent as Tenderer shall furnish Satisfactory Performance Certificate/Installation Reports in respect of above, duly notarized in the country of origin, along with the tender.

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.

3. 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.
4. Tender shall submit audited balance sheets for the last three years. Annual Turnover statements should be certified by chartered accountant bearing their membership No.
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.
6. The Tenderer shall furnish copy of all Purchase Orders (complete with specifications and prices) in their Technical Bid for the same model supplied to Govt. Hospitals/PSU Hospitals/UN Agencies/Govt. Labs/Corporate Hospitals in the last one year from the date of Technical Bid opening.

**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.**

**Section - X**  
**TENDER FORM**

Date\_\_\_\_\_

To

---

Medical Superintendemnt & VMMC,  
SafdarjungHospital,  
New Delhi.

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

We, the undersigned have examined the above mentioned TE document, including amendment/corrigendum No. \_\_\_\_\_, dated \_\_\_\_\_, 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 schedule(s), attached herewith and made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements. We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V - "Special Conditions of Contract", for due performance of the contract.

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

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

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

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

---

**(Signature with date)**

---

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

**SECTION - XI PRICE SCHEDULE****A) PRICE SCHEDULE FOR DOMESTIC GOODS OR GOODS OF FOREIGN ORIGIN LOCATED WITHIN INDIA**

1 Schedule	2 Brief Description of Goods	3 Country of Origin	4 Quantity (Nos.)	5 Price per unit (Rs.)							6 Total Price (at Consignee Site) basis (Rs.)  4 x 5(g)
				Ex - factory/ Ex - warehouse /Ex-showroom /Off - the shelf (a)	Excise Duty (if any) [%age & value] (b)	Sales Tax/VAT(if any) [%age & value] (c)	Packing and Forwarding charges (d)	Inland Transportation, Insurance for a period including 3 months beyond date of delivery, loading/unloading and Incidental costs till consignee's site (e)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site (f)	Unit Price (at Consignee Site) basis (Rs.)  (g) =a+b+c+d+e+f	

Total Tender price in Rupees: \_\_\_\_\_

In words: \_\_\_\_\_

**Note: -**

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

Name \_\_\_\_\_

Business Address \_\_\_\_\_

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

Signature of Tenderer \_\_\_\_\_

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

Seal of the Tenderer \_\_\_\_\_

**SECTION - XI PRICE SCHEDULE**  
**B) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD**

1 Schedule	2 Brief Description of Goods	3 Country of Origin	4 Quantity (Nos.)	5 Price per unit (Currency)					6 Total price on CIP Port of destination + Extended Insurance+ local transportation and storage at consignee site)  4X 5 (f)
				FOB/FCA price at port/ airport of Lading  (a)	Carriage & Insurance (port of loading to port of destination) and other Incidental costs (b)	CIP Price (name place/port of destination in India (c)	Loading & unloading at name place/port of entry in India + local transportation and storage to the consignee site + Extended Insurance for a period including 3 months beyond date of delivery** (d)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site ** (e)	

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

Total Tender price in foreign currency: \_\_\_\_\_

In words: \_\_\_\_\_

**Note: -**

1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.
2. The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C
3. *The Tenderer will be fully responsible for the safe arrival of the goods at destination (consignee site) in good condition as per terms of DDP at Consignee's site as per INCOTERMS, if applicable*

Custom Duty @ 11.76% & Custom Clearance Charges @ 2% will be added to CIP charges to arrive at DDP Price at consignee site for evaluation purpose.

**Indian Agency Commission - \_\_% of FOB/FCA**

**Signature of Tenderer** \_\_\_\_\_

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

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

**Name** \_\_\_\_\_

**Business Address** \_\_\_\_\_

**Signature of Tenderer** \_\_\_\_\_

**Seal of the Tenderer** \_\_\_\_\_

**SECTION - XI PRICE SCHEDULE****C) PRICE SCHEDULE FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD**

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 <sup>st</sup>	2 <sup>nd</sup>	3 <sup>rd</sup>	4 <sup>th</sup>	5 <sup>th</sup>	
			a	B	c	d	e	

\* After completion of Warranty period

**NOTE:-**

1. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
2. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment and Turnkey (if any).
3. The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
4. Cost of CMC will be added for Ranking/Evaluation purpose.
5. The payment of CMC will be made as per clause GCC clause 21.1 (D).
6. The uptime warranty will be 98 % on 24 (hrs) X 7 (days) X 365 (days) basis or as stated in Technical Specification of the TE document.
7. All software updates should be provided free of cost during CMC period.
8. The stipulations in Technical Specification will supersede above provisions
9. The supplier shall keep sufficient stock of spares required during Annual Comprehensive Maintenance Contract period. In case the spares are required to be imported, it would be the responsibility of the supplier to import and get them custom cleared and pay all necessary duties.

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

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

Name \_\_\_\_\_

Business Address \_\_\_\_\_

Signature of Tenderer \_\_\_\_\_

Seal of the Tenderer \_\_\_\_\_

**vSECTION XI- PRICE SCHEDULE  
D) PRICE SCHEDULE FOR TURNKEY**

Schedule No.	BRIEF TURNKEY DESCRIPTION OF GOODS	CONSIGNEE	Turnkey price

**Note: -**

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

Name \_\_\_\_\_

Business Address \_\_\_\_\_

Signature of Tenderer \_\_\_\_\_

Seal of the Tenderer \_\_\_\_\_

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

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

**SECTION - XII  
QUESTIONNAIRE**

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

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



**SECTION - XIII**  
**BANK GUARANTEE FORM FOR EMD**

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

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

a) fails or refuses to furnish the performance security for the due performance of the contract.

or

b) fails or refuses to accept/execute the contract.

or

c) 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 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**

To

---

Medical Superintendent,  
Safdarjung Hospital & VMMC,  
New Delhi.

Dear Sirs,

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 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.

Yours faithfully,

---

[Signature with date, name and designation]  
for and on behalf of Messrs \_\_\_\_\_

[Name & address of the manufacturers]

- Note: 1. This letter of authorisation should be on the letter head of the manufacturing firm and should be signed by a person competent to legally bind the manufacturer.*
- 2. Original letter may be sent.*

**SECTION - XV**

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

To  
Medical Superintendemnt & VMMC,  
SafdarjungHospital,  
New Delhi.

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 30/66 months from the date of Notification of Award i.e. up to ----- (indicate date)

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

.....  
Name and designation of the officer  
.....  
.....

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

**SECTION - XVI  
CONTRACT FORM - A**

**CONTRACT FORM FOR SUPPLY, INSTALLATION, COMMISSIONING, HANDING OVER, TRIAL RUN, TRAINING OF OPERATORS & WARRANTY OF GOODS**

(Address of the Purchaser's/Consignee's office issuing the contract)

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

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

1. Name & address of the Supplier: \_\_\_\_\_
2. Purchaser's TE document No \_\_\_\_\_ dated \_\_\_\_\_ and subsequent Amendment No \_\_\_\_\_, dated \_\_\_\_\_ (if any), issued by the purchaser
3. Supplier's Tender No \_\_\_\_\_ dated \_\_\_\_\_ and subsequent communication(s) No \_\_\_\_\_ dated \_\_\_\_\_ (if any), exchanged between the supplier and the purchaser in connection with this tender.
4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:

- (i) General Conditions of Contract;
- (ii) Special Conditions of Contract;
- (iii) List of Requirements;
- (iv) Technical Specifications;
- (v) Quality Control Requirements;
- (vi) Tender Form furnished by the supplier;
- (vii) Price Schedule(s) furnished by the supplier in its tender;
- (viii) Manufacturers' Authorisation Form (if applicable for this tender);
- (ix) Purchaser's Notification of Award

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

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:

- (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

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

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

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

2. 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

3. Warranty clause

4. Payment terms

5. 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: \_\_\_\_\_

**SECTION - XVI**  
**CONTRACT FORM - B**  
**CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT**

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

(Address of Head of Hospital/Institute/Medical College)  
 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

6. 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 <sup>st</sup>	2 <sup>n</sup> <sub>d</sub>	3 <sup>r</sup> <sub>d</sub>	4 <sup>th</sup>	5 <sup>th</sup>	
			a	b	c	d	e	

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

- b) The CMC commence from the date of expiry of all obligations under Warranty i.e. from \_\_\_\_\_ (date of expiry of Warranty) and will expire on \_\_\_\_\_ (date of expiry of CMC)
- c) The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years as contained in the above referred contract on yearly basis for complete equipment (including X ray tubes, Helium for MRI, Batteries for UPS, other vacuumatic parts, \_\_\_ & \_\_\_) and Turnkey (if any).
- d) There will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
- e) During CMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/technical/ operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- f) All software updates should be provided free of cost during CMC.

- g) The bank guarantee valid till \_\_\_\_\_ [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs. \_\_\_\_\_ [(fill amount) equivalent to 2.5 % of the cost of the equipment as per contract] shall be furnished in the prescribed format given in Section XV of the TE document, along with the signed copy of Annual CMC within a period of 21 (twenty one) days of issue of Annual CMC failing which the proceeds of Performance Security shall be payable to the Purchaser/Consignee.
- h) If there is any lapse in the performance of the CMC as per contract, the proceeds Annual CMC bank guarantee for an amount of Rs. \_\_\_\_\_ (equivalent to 2.5 % of the cost of the equipment as per contract) shall be payable to the Consignee.
- i) **Payment terms:** The payment of Annual CMC will be made against the bills raised to the consignee by the supplier on six monthly basis after satisfactory completion of said period, duly certified by the HOD concerned. The payment will be made in Indian Rupees.
- j) **Paying authority:** \_\_\_\_\_ (name of the consignee i.e. Hospital/ Institute /Medical College's authorised official)

\_\_\_\_\_  
**(Signature, name and address  
of Hospital/Institute/Medical College'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: \_\_\_\_\_

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

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

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



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

No \_\_\_\_\_

Date \_\_\_\_\_

**To**

M/s \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

Subject: Certificate of commissioning of equipment/plant.

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

(a) Contract No \_\_\_\_\_ dated \_\_\_\_\_

(b) Description of the equipment(s)/plants: \_\_\_\_\_

(c) Equipment(s)/ plant(s) nos.: \_\_\_\_\_

(d) Quantity: \_\_\_\_\_

(e) Bill of Loading/Air Way Bill/Railway  
Receipt/ Goods Consignment Note no \_\_\_\_\_ dated \_\_\_\_\_

(f) Name of the vessel/Transporters: \_\_\_\_\_

(g) Name of the Consignee: \_\_\_\_\_

(h) Date of commissioning and proving test: \_\_\_\_\_

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

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

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:

He has not adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specifications'.

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).

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**  
**AFFIDAVIT/UNDERTAKING**

I/ We have read and understood the instructions and the terms and conditions contained in the document. I/We accordingly accept all terms and conditions of the tender enquiry document including the essential conditions specially incorporated in the tender enquiry like terms of terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law. I/ We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities. I/ We do hereby declare that the information furnished/ uploaded is correct to the best of my/our knowledge and belief. I/We hereby certify that the prices offered by us in this tender is not higher than the prices we had offered to any other Govt. of India Organisation(s)/PSU(s) during the last one year and shall provide the justification for reasonableness of our offered price whenever asked during evaluation of our submitted bid. I/ We also hereby certify that if at any time, information furnished by us is proved to be false or incorrect; I/ We are liable for any action as deemed fit by the purchaser in addition to forfeiture of the earnest money.

Date:

(Signature of the bidder)  
NAME & ADDRESS OF THE BIDDER

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

**SECTION - XX**  
**CHECKLIST**

**Name of Tenderer:**  
**Name of Manufacturer:**

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

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
5. a.	Have you submitted satisfactory performance certificate/ Installation Reports as per the Proforma for performance statement in Sec. IX of TE document in respect of all orders?			
b.	Have you submitted copy of the order(s) and end user certificate/ Installation Reports?			
6.	Have you submitted manufacturer's authorization as per Section XIV?			
7.	Have you submitted prices of goods, turnkey (if any), CMC etc. in the Price Schedule as per Section XI?			
8.	Have you kept validity of 120 days from the Techno Commercial Tender Opening date as per the TE document?			
9. a.	In case of Indian Tenderer, have you furnished Income Tax Account No. as allotted by the Income Tax Department of Government of India?			
b.	In case of Foreign Tenderer, have you furnished Income Tax Account No. of your Indian Agent as allotted by the Income Tax Department of Government of India?			
10.	Have you intimated the name and full address of your Banker (s) along with your Account Number			
11.	Have you fully accepted payment terms as per TE document?			
12.	Have you fully accepted delivery period as per TE document?			

Sl No.	Activity	Yes/ No/ NA	Page No. in the TE document	Remarks
13.	Have you submitted the certificate of incorporation?			
14.	Have you accepted the warranty as per TE document?			
15.	Have you accepted terms and conditions of TE document?			
16.	Have you furnished documents establishing your eligibility & qualification criteria as per TE documents?			
17.	Have you furnished Annual Report (Balance Sheet and Profit & Loss Account) for last three years prior to the date of Tender opening duly certified by chartered accountant bearing their membership no.?			
18.	Have you enclosed the Affidavit as per Section XIX of the TE Document?			

N.B.

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

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**(Signature with date)**

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

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**(Name, address and stamp of the tendering firm)**

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**Section - XXI**  
**Consignee List**

<b>Consignee</b>	<b>Medical Institutions</b>	<b>Contact Address.</b>
	Medical Superintendent, SafdarjungHospital & VMMC, New Delhi	Medical Superintendent, SafdarjungHospital & VMMC, New Delhi

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