GLOBAL TENDER ENQUIRY DOCUMENT

FOR PURCHASE OF MEDICAL EQUIPMENT

FOR & ON BEHALF OF

AIIMS, RAEBARELI

On E-Tender Basis

HSCC/AIIMS-RAEBARELI/HOSPITAL/3/2019

Dated 23.12.2019

HSCC (INDIA) LTD

(A GOVERNMENT OF INDIA ENTERPRISE)
Plot No. 6-A, Block-E, Sector-1, NOIDA (U.P.) – 201 301
PHONE: 0120-2540153
FAX: 0120-2542447
URL: www.hsccltd.com

INDEX

SECTION- I

NOTICE INVITING TENDERS (NIT)
For GLOBAL TENDER ENQUIRY DOCUMENT

HSCC (INDIA) LTD
(A GOVERNMENT OF INDIA ENTERPRISE)

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

PHONE: 0120-2540153
FAX: 0120-2542447
URL: www.hsccltd.co.in

GOVT OF INDIA
MINISTRY OF HEALTH & FAMILY WELFARE

SECTION I

NOTICE INVITING TENDER (NIT)

Tender Enquiry No.: HSCC/AIIMS-RAEBARELI/Hospital/3/2019 Dated: 23.12.2019

Bids are invited on behalf of Ministry of Health & Family Welfare through HSCC (India) Ltd from eligible and qualified tenderers for supply of following Medical Equipments for AIIMS, Raebareli-229405, U.P., India:-

S. No.	Equipment Details	Qty./ Requirements	EMD (Rs.)
A	**Aneasthesia Deptt. At Hospital Block**		
1	Blood & Fluid Warming Device	10 no. for Hospital Block	20,000.00
2	Non invasive Ventilator	5 no. for Hospital Block	50,000.00
3	Recovery trolley	15 no. for Hospital Block	90,000.00
4	ICU monitor with CNS (5 nos)	50 no. for Hospital Block	8,00,000.00
5	Recovery ward monitor	30 no. for Hospital Block	1,80,000.00
6	Transport Monitor	7 no. for Hospital Block	32,200.00

7	Anesthesia Workstation with Monitor & Ventilator	15 no. for Hospital Block	9,00,000.00
8	Blood Gas Analyser	2 no. for Hospital Block	34,000.00
9	Nerve Stimulator	4 no. for Hospital Block	8,000.00
10	Fiberoptic bronchoscope with monitor and recording facility for adult and pediatric	2 no. for Hospital Block	52,000.00
B	**Cardiology Deptt. At Hospital Block**		
1	2 D Echo Cardiography	1 no. for Hospital Block	1,20,000.00
2	TMT Machine with Ergometer or Treadmill	2 no. for Hospital Block	60,000.00
3	Holter Monitor	4 no. for Hospital Block	28,000.00
4	Tilted Table	1 no. for Hospital Block	10,000.00
C	**Dentistry Deptt. At Hospital Block**		
1	ADVANCE ELECTRONIC DENTAL CHAIR	3 no. for Hospital Block	1,08,000.00
2	TABLE TOP AUTOCLAVE	2 no. for Hospital Block	20,000.00
3	DENTAL INTRAORAL X-RAY UNIT	1 no. for Hospital Block	5,000.00
4	DENTAL DIGITAL RADIOGRAPHY SENSOR SYSTEM WITH SOFTWARE	1 no. for Hospital Block	5,000.00
5	ULTRASONIC CLEANER	1 no. for Hospital Block	5,000.00
6	ELECTROSURGICAL UNIT	1 no. for Hospital Block	5,000.00
7	PHYSIODISPENSER WITH REDUCTION GEAR HANDPIECE	1 no. for Hospital Block	5,000.00

8	DENTAL EXTRACTION INSTRUMENTS	1 set for Hospital Block	8,000.00
9	CRANIOMAXILLOFACIAL TRAUMA INSTRUMENTS	1 set for Hospital Block	20,000.00
10	GENERAL INSTRUMENTS FOR DENTISTRY – OUT PATIENTS DEPARTMENTS	1 set for Hospital Block	30,000.00
11	GENERAL MAXILLOFACIAL SURGICAL INSTRUMENTS	1 set for Hospital Block	30,000.00
12	HAND PIECE CLEANING AND OILING SYSTEM	1 no. for Hospital Block	4,000.00
13	FIBER OPTIC LIGHT SOURCE	1 no. for Hospital Block	8,000.00
14	ORTHOPANTOMOGRAM (OPG) UNIT	1 no. for Hospital Block	1,00,000.00
15	INSTRUMENT WASHER, DISINFECTOR	1 no. for Hospital Block	8,000.00
D	**Nephrology Deptt. At Hospital Block**		
1	CRRT Machine	1 no. for Hospital Block	30,000.00
2	Automatic PD Cycler	1 no. for Hospital Block	14,000.00
3	Haemodialysis Machine (SLED Mode)	5 no. for Hospital Block	1,50,000.00
4	RO plant	1 no. for Hospital Block	1,00,000.00
5	Dialyser Reprocessor	2 no. for Hospital Block	24,000.00
E	**Other Equipment in Hospital Block**		
1	Drug Cart/Crash Cart	3no. for Cardiology + 6no. for CTVS + 15no. for Anesthesia = 24 nos.	18,000.00

2	Portable Ventilator	5no. for Anesthesia + 2no. for CTVS + 2no. for Emergency & Trauma = 9 nos.	86,000.00
3	ICU Ventilator	30no. for Anesthesia + 5no. for Emergency & Trauma = 35 nos.	10,00,000.00
4	DVT Pump	20no. for Aneasthesia + 1no. for General Medicine & Immunology = 21 nos.	72,000.00
5	Patient Warming Unit	1no. for Cardiology + 2no. for CTVS + 1no. for Neurosurgery + 1no. for Urology + 10no. for Anesthesia = 15 nos.	1,20,000.00
6	Defibrillator with CPR Capability	8 no. for Anesthesia + 2no. for Surgical Oncology + 2no. for Nephrology = 12 nos.	1,40,000.00
7	Volumetric Infusion Pump	4no. for Cardiology + 10no. for CTVS + 2no. for Neurosurgery + 10no. for Medical Oncology + 10no. for Emergency & Trauma = 36 nos.	38,000.00
8	LED Head Light	2no. for ENT + 6no. for Dentistry = 8nos.	16,000.00
F	**Other Equipment For Medical College Block**		
1	Mortuary cooler with arrangement to keep bodies	4 Nos. for Human Anatomy Deptt.	1,20,000.00
2	Exercise Physiology System	1 No. for Physiology Deptt.	60,000.00
3	Gas analyser automatic for CO2, O2, N2	1 No. for Physiology Deptt.	10,000.00
4	Multi channel Physiograph, 3 channels, complete with accessories	2 No. for Physiology Deptt.	14,000.00
5	Student physiograph, (single channel) with accessories	10No. for Physiology Deptt.	20,000.00

(1)The bidders are required to be registered at HSCC e-tender portal www.tenderwizard.com/HSCC. Please log on to 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. 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, www.hsccltd.com , CPPP Portal for downloading from **23.12.2019 to 22.01.2020**. Prospective bidders are advised to regularly scan through HSCC E-tender portal www.tenderwizard.com/HSCC , www.hsccltd.com & CPPP as corrigendum/modification/amendments, if any, will be notified on these portal only and no separate advertisement will be made for this.

(2)**Tender Enquiry No.:** HSCC/AIIMS RAEBARELI/Hospital/3/2019 Dated 23.12.2019

Sl. No.	Description	Schedule
i.	Dates of sale of tender enquiry documents	**24.12.2019 to 22.01.2020 12.00 hrs to 1700 hrs IST**
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	Nil
iv.	Pre Bid Meeting Date & Time	**06.01.2020**, 11.00 **AM IST**
v.	Pre Tender Meeting Venue	HSCC (India) Ltd, Plot No. 6-A, Block-E, Sector-1, Noida (U.P)-201301
vi.	Closing date & time for receipt of Tender	**22.01.2020**, **1430 hrs IST**
vii.	Time and date of opening of Techno – Commercial tenders	**22.01.2020**, **1500 hrs IST**
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) Technical compliance for the quoted goods vis-à-vis the Technical specifications and with all related brochures/catalogues in the tender enquiry, technical bid.
(NOTE : Submit : *"Compliance report in a tabulated and point wise manner clearly highlighting the parameters in technical literature/data sheets /brochure/ Certificates.)*

Part-II Online

Tender Fee and EMD

(i) Power of Attorney
(iii)Tender Form as per section X.
(iv)Manufacturers Authorization Form
(iv) 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.
Technical compliance for the quoted goods vis-à-vis the Technical specifications.
(NOTE : Submit : *"Compliance report in a tabulated and point wise manner clearly highlighting the parameters in technical literature/data sheets /brochure/ Certificates.)*
(viii) 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, www.hsccltd.com for downloading. The cost the Tender Enquiry Document is **free of cost**. 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. Please log on to 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.

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 & 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.

Sr. CGM-I
HSCC (India)
Ltd,NOIDA

SECTION - II

GENERAL INSTRUCTIONS TO TENDERERS (GIT)
CONTENTS

GENERAL INSTRUCTIONS TO TENDERERS (GIT)

A. PREAMBLE

1. Definitions and Abbreviations

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

1.2. Definitions:

(i) "Purchaser" means the organization purchasing goods and services as incorporated in the Tender Enquiry document i.e. Director, AIIMS, Munshiganj, Raebareli-229405, U.P., India.
(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 Director, AIIMS Raebareli/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) HSCC (India) Ltd is the executing agency for and on behalf of the Purchaser.
(xi) "Specification" means the document/standard that prescribes the requirement with which goods or service has to conform.
(xii) "Inspection" means activities such as measuring, examining, testing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement to determine conformity.
(xiii) "Day" means calendar day.

1.3 Abbreviations:

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

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

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 directionson 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 warrantee that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages

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

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

12. Tender currencies

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

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 + quoted custom duty + quoted IGST
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 and custom clearance charges will be borne by the supplier.

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

19. Earnest Money Deposit (EMD)

19.1 Pursuant to GIT clauses 8.1 and 11.1 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 the 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 Infirmity/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.

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

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

The Notification is available in the below link:

http://www.finmin.nic.in/the_ministry/dept_expenditure/ppcell/RelaxNorms_StarupMedEnterprise25072016.pdf

The FAQs are available in the below link:

http://dipp.nic.in/English/Investor/startupindia/FAQs_StartupIndia_30March2016.pdf

Note:- Definition of Start-up (only for the purpose of Government schemes)

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

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

Provided that such entity is not formed by splitting up, or reconstruction, of a business already inexistence.
Provided also that an entity shall cease to be a Start-up if its turnover for the previous financial years has exceeded INR 25 crore or it has completed 5 years from the date of incorporate on/ registration.

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

32. Conversion of tender currencies to Indian Rupees

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

35.4 **Preference to Make in India**: As per the Order issued by Department of Industrial Policy and Promotion (DIPP) vide no. P-45021/2/2017-BE-II dated 15.6.2017 as attached the Purchaser reserves the right to give preference to the local supplier. A copy of this order is enclosed which will form a part of the Tender Enquiry Document for evaluation and ranking of the bids. A local supplier (definition of local supplier is given in Clause 2 of the aforesaid Order of DIPP) has to submit the following along with their tenders failing which their bid will be evaluated without considering such preference mentioned in the DIPP under Order dt. 15.06.207.

a. The local supplier at the time of tender, bidding or solicitation shall be required to provide self certification that the item offered meets the minimum local content and shall give details of the location(s) at which the local value addition is made.

b. In cases of procurement for a value in excess of Rs.10.00 crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

36. Tenderer's capability to perform the contract

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

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

37. Contacting the Purchaser

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

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

G. AWARD OF CONTRACT

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

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

39. Award Criteria

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

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

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

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

47. <u>Integrity Pact.</u>

The Bidders/bidders may note that it is prescribed to use, practice and observe all the best, clean, ethical, honest and legal means & behaviour maintaining complete transparency and fairness in all activities concerning Bidding and performance thereto for which the "Integrity Pact" shall be executed between Firm and Purchaser as per the format provided as Section XXI to be attached with the bid duly signed.

SECTION - III
SPECIAL INSTRUCTIONS TO TENDERERS
(SIT)

Sl. No.	GIT Clause No.	Topic	SIT Provision	Page No.
A	1 to 7	Preamble	No Change	26
B	8 to 10	TE documents	No Change	26
C	11 to 21	Preparation of Tenders	No Change	26
D	22 to24	Submission of Tenders	No Change	26
E	25	Tender Opening	No Change	26
F	26 to 27	Scrutiny and Evaluation of Tenders	No Change	26
G	36 to 46	Award of Contract	No Change	26

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)
TABLE OF CLAUSES

GENERAL CONDITIONS OF CONTRACT (GCC)

1. Application

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

Please ensure the following compliances are met for the Medical equipment:

1. For Radiology equipment i.e. X-Ray, Ultrasound, MRI & CT-Scan etc.

    a. Equipment should be DICOM (Digital Imaging and Communications in Medicine) enabled DICOM provides reliable protocols for integration of image data between imaging, non-imaging modalities, devices and systems.

    b. Equipment complied with HL7 (Health Level Seven) standards

    c. Capable to link with PACS & HMIS. Any Hardware/lock/software license required for interfacing with PACS & HMIS should be supplied with the equipment/device.

2. For Laboratory Equipment/device:

a. Equipment communicates in one of the following ways:

A. TCP/IP
B RS-232
C. USB

Any type of cable/hardware/lock/software/license required for integration with HMIS system should be provided.

Please provide configuration parameters to connect with HMIS successfully.

b. Data accepted/send by the device/equipment should be readable as standard data Type in ANSI C/C++.

c. Comprehensive list of all data structures imported and exported by the device should be documented with examples.

d. API of equipment should be provided.

e. Technical interface specification should be provided.

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 transhipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.

7.2 The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and Quality Control Requirements under Sections VII and VIII and in SCC under Section V. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.

7.3 Packing instructions:

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

Sr. CGM - I, HSCC (India) Ltd, E-6 (A) Sector -1 , Noida – 201301, UP INDIA

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 transhipment without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under CIP (Named port of destination) terms; the shipment shall be made by Indian flag vessel or by vessels belonging to the conference lines in which India is a member country through India's forwarding agents/coordinators. In case the forwarding agent/coordinators are unable to provide timely adequate space in Indian flag vessel or by vessels belonging to the conference lines, the supplier shall arrange shipment through any available vessel to adhere to the delivery schedule given in the contract.

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

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

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

11. Insurance:

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

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

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

If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will 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 Goods 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 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 receipted by the consignee or any communication from the purchaser or the consignee about non-receipt, shortage or defects in the goods supplied. I/We _____ agree to make good any defect or deficiency that the consignee may report within three months from the date of receipt of this balance payment.

22. Delivery/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, interalia contain the following conditions:

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

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

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

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

22.6 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 interalia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.

27.2 The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by the Purchaser/Consignee following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser/Consignee may decide:

a) To get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or

b) To cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

28. Governing language

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

29. Notices

29.1 Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable or telex or facsimile and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.

29.2 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

30. Resolution of disputes

30.1 If dispute or difference of any kind shall arise between the Purchaser/Consignee and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

30.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India. In the case of a dispute or difference arising between the Purchaser/Consignee and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration of an officer in the Ministry of Law and Justice, appointed to be the arbitrator by **AIIMS Raebareli**. 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. The Purchaser reserves the right to give the price preference to small-scale sectors etc. and purchase preference to central public sector undertakings as per the instruction in vogue while evaluating, comparing and ranking the responsive tenders.

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

ii. In accordance with the above said notification, the participating Micro and Small

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

iii. The MSEs fulfilling the prescribed eligibility criteria and participating in the tender shall enclose with their tender a copy of their valid registration certificate with District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or any other body specified by

Ministry of Micro and Small enterprises in support of their being an MSE, failing which their tender will be liable to be ignored.

iv. Special provision for Micro and Small Enterprise owned by women. Out of the total annual procurement from Micro and Small Enterprises, 3 per cent from within the 25 per cent target shall be earmarked for procurement from Micro and Small Enterprises owned by women.

Note: "If the bidder is a MSME, it shall declare in the bid document the Udyog Aadhar Memorandum Number issued to it under the MSMED Act, 2006. If a MSME bidder do not furnish the UAM Number along with bid documents, such MSME unit will not be eligible for the benefits available under Public Procurement Policy for MSEs Order 2012."

34.4 Preference to Make in India:

As per the order issued by

i) Department of Industrial Policy and Promotion (DIPP) vide No. P-45021/2/2017-BE-II dated 15.06.2017 &

ii) Department of Pharmaceuticals vide No. F- 31026/36/2016-MD dated 18.05.2018 and the subsequent orders thereof; the purchaser reserves the right to give preference to the local supplier. A copy of this order is enclosed at Appendix-A which will form a part of this TED for evaluation and ranking of bids. (copy attached)

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.	Equipment Details	Qty./ Requirements	EMD (Rs.)
A	**Aneasthesia Deptt. At Hospital Block**		
1	Blood & Fluid Warming Device	10 no. for Hospital Block	20,000.00
2	Non invasive Ventilator	5 no. for Hospital Block	50,000.00
3	Recovery trolley	15 no. for Hospital Block	90,000.00
4	ICU monitor with CNS (5 nos)	50 no. for Hospital Block	8,00,000.00
5	Recovery ward monitor	30 no. for Hospital Block	1,80,000.00
6	Transport Monitor	7 no. for Hospital Block	32,200.00
7	Anesthesia Workstation with Monitor & Ventilator	15 no. for Hospital Block	9,00,000.00
8	Blood Gas Analyser	2 no. for Hospital Block	34,000.00
9	Nerve Stimulator	4 no. for Hospital Block	8,000.00
10	Fiberoptic bronchoscope with monitor and recording facility for adult and pediatric	2 no. for Hospital Block	52,000.00
B	**Cardiology Deptt. At Hospital Block**		
1	2 D Echo Cardiography	1 no. for Hospital Block	1,20,000.00
2	TMT Machine with Ergometer or Treadmill	2 no. for Hospital Block	60,000.00
3	Holter Monitor	4 no. for Hospital Block	28,000.00

4	Tilted Table	1 no. for Hospital Block	10,000.00
C	**Dentistry Deptt. At Hospital Block**		
1	ADVANCE ELECTRONIC DENTAL CHAIR	3 no. for Hospital Block	1,08,000.00
2	TABLE TOP AUTOCLAVE	2 no. for Hospital Block	20,000.00
3	DENTAL INTRAORAL X-RAY UNIT	1 no. for Hospital Block	5,000.00
4	DENTAL DIGITAL RADIOGRAPHY SENSOR SYSTEM WITH SOFTWARE	1 no. for Hospital Block	5,000.00
5	ULTRASONIC CLEANER	1 no. for Hospital Block	5,000.00
6	ELECTROSURGICAL UNIT	1 no. for Hospital Block	5,000.00
7	PHYSIODISPENSER WITH REDUCTION GEAR HANDPIECE	1 no. for Hospital Block	5,000.00
8	DENTAL EXTRACTION INSTRUMENTS	1 set for Hospital Block	8,000.00
9	CRANIOMAXILLOFACIAL TRAUMA INSTRUMENTS	1 set for Hospital Block	20,000.00
10	GENERAL INSTRUMENTS FOR DENTISTRY – OUT PATIENTS DEPARTMENTS	1 set for Hospital Block	30,000.00
11	GENERAL MAXILLOFACIAL SURGICAL INSTRUMENTS	1 set for Hospital Block	30,000.00
12	HAND PIECE CLEANING AND OILING SYSTEM	1 no. for Hospital Block	4,000.00
13	FIBER OPTIC LIGHT SOURCE	1 no. for Hospital Block	8,000.00
14	ORTHOPANTOMOGRAM (OPG) UNIT	1 no. for Hospital Block	1,00,000.00

15	INSTRUMENT WASHER, DISINFECTOR	1 no. for Hospital Block	8,000.00
D	**Nephrology Deptt. At Hospital Block**		
1	CRRT Machine	1 no. for Hospital Block	30,000.00
2	Automatic PD Cycler	1 no. for Hospital Block	14,000.00
3	Haemodialysis Machine (SLED Mode)	5 no. for Hospital Block	1,50,000.00
4	RO plant	1 no. for Hospital Block	1,00,000.00
5	Dialyser Reprocessor	2 no. for Hospital Block	24,000.00
E	**Other Equipment in Hospital Block**		
1	Drug Cart/Crash Cart	3no. for Cardiology + 6no. for CTVS + 15no. for Anesthesia = 24 nos.	18,000.00
2	Portable Ventilator	5no. for Anesthesia + 2no. for CTVS + 2no. for Emergency & Trauma = 9 nos.	86,000.00
3	ICU Ventilator	30no. for Anesthesia + 5no. for Emergency & Trauma = 35 nos.	10,00,000.00
4	DVT Pump	20no. for Aneasthesia + 1no. for General Medicine & Immunology = 21 nos.	72,000.00
5	Patient Warming Unit	1no. for Cardiology + 2no. for CTVS + 1no. for Neurosurgery + 1no. for Urology + 10no. for Anesthesia = 15 nos.	1,20,000.00
6	Defibrillator with CPR Capability	8 no. for Anesthesia + 2no. for Surgical Oncology + 2no. for Nephrology = 12 nos.	1,40,000.00
7	Volumetric Infusion Pump	4no. for Cardiology + 10no. for CTVS + 2no. for Neurosurgery + 10no. for Medical Oncology + 10no.	38,000.00

		for Emergency & Trauma = 36 nos.	
8	LED Head Light	2no. for ENT + 6no. for Dentistry = 8nos.	16,000.00
F	**Other Equipment For Medical College Block**		
1	Mortuary cooler with arrangement to keep bodies	4 Nos. for Human Anatomy Deptt.	1,20,000.00
2	Exercise Physiology System	1 No. for Physiology Deptt.	60,000.00
3	Gas analyser automatic for CO2, O2, N2	1 No. for Physiology Deptt.	10,000.00
4	Multi channel Physiograph, 3 channels, complete with accessories	2 No. for Physiology Deptt.	14,000.00
5	Student physiograph, (single channel) with accessories	10No. for Physiology Deptt.	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 60 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 else Liquidated Damages as per tender conditions will be applied.

Consignee/destination details as mentioned in Section-XXI.

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 – VII

Technical Specifications

Enclosed as Annexure-A

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. In case the manufacturer does not quote directly, they may authorize an agent as per Proforma of Manufacturer authorization form as given in the tender enquiry document to quote and enter into a contractual obligation.

2(a) The Manufacturer should have supplied and installed in last Five years from the date of Tender Opening, at least 25% of the quoted quantity (rounded off to next whole number) of the similar equipment meeting major parameters of technical specification which is functioning satisfactorily.

2(b) The Tenderers quoting as authorized representative of the manufacturer meeting the above criteria should have executed at least one contract in the last five years from the date of tender opening of medical equipment anywhere in India of the same manufacturer.

The bidders/ firms identifying as MSME and or start-up firms are exempted from fulfilling criteria at S. No. 2 (a) and 2(b) stated above. However, this does not exempt any bidder/ firm/ manufacturer from fulfilling the quality requirements.

Note: **"If the bidder is a MSME, it shall declare in the bid document the Udyog Aadhar Memorandum Number issued to it under the MSMED Act, 2006. If a MSME bidder do not furnish the UAM Number along with bid documents, such MSME unit will not be eligible for the benefits available under Public Procurement Policy for MSEs Order 2012." Traders/resellers/distributors/authorized agents will not be considered for availing benefits under PP Policy 2012 for MSEs as per MSE guidelines issued by MoMSME.**

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

Sr. CGM - I,
HSCC (India) Ltd
E-6 (A) Sector -1 ,
Noida - 201301
UP INDIA

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

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	2	3	4	5						6
Schedule	Brief Description of Goods	Country of Origin	Quantity (Nos.)	Price per unit (Currency)						
				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) =a+b	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 in INR (d)	Incidental Services (including installation, commissioning, supervision, demonstration & training) at consignee's site in INR (e)	Unit Price on CIP Port of destination + Extended Insurance+ local transportation and storage at consignee site) (f)=c+d+e	Total price on CIP Port of destination + Extended Insurance+ local transportation and storage at consignee site) 4X 5 (f)

Total CIP Price in words: _____

Bidder must specify Custom Duty : INR.....

Bidder must specify IGST: INR.....

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 CIP at Consignee's site
4. Custom Duty & IGST quoted as applicable as per Item HSN Code will be added to Total CIP Price to arrive at Price at consignee site for evaluation purpose.
5. Specify HSN Codes : ( ).

Indian Agency Commission - __% of FOB/FCA.

Name_____
Business Address_____
Place: _____ **Signature of Tenderer_____**
Date: _____ **Seal of the Tenderer_____**

For price bid evaluation bidder must quote actual custom duty and IGST as applicable on the imported equipment offered.

Note : Reimbursement of Custom Duty & IGST: The Custom Duty & IGST amount as mentioned in the price schedule in INR will be compared with the actual total Custom Duty amount paid to custom department & actual IGST paid and the same will be reimbursed to the supplier as per the following:

a). If the custom duty & IGST amount as mentioned in the price schedule is **equal** to the actual total custom duty amount levied by the custom department & actual IGST paid, the actual total custom duty amount levied by custom department & actual IGST paid shall prevail and reimbursed to the supplier in INR accordingly on submission of original documentary evidence.

b). If the custom duty & IGST amount as mentioned in the price schedule is **more** than the actual total custom duty amount levied by the custom department, the actual total custom duty amount levied by custom department & actual IGST paid shall prevail and reimbursed to the supplier in INR accordingly on submission of original documentary evidence.

c). If the custom duty & IGST amount as mentioned in the price schedule is **less** than the actual total custom duty amount levied by the custom department and the actual IGST paid, the custom duty amount and IGST as mentioned in the price schedule shall prevail only and reimbursed to the supplier in INR accordingly.

d). Any upward/downward change in custom duty & IGST as a result of any statutory variation in custom duty & IGST taking place within the contract terms shall be allowed to the extent of actual quantum of custom duty paid by the supplier. In case of downward revision in the custom duty, the actual quantum of reduction shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concessions etc. Obtained by the supplier.

Section XI - Price Schedule for Items mentioned as – Optional or To be Quoted Separately					
Sr no.	**Name of Part**	**Part No.**	**Qty**	**Unit price inclusive of all taxes, duties, transportation, incidental cost etc. up to Consignee Site (Any currency)**	**Total price inclusive of all taxes, duties, transportation, incidental cost etc. up to Consignee Site (Any currency)**
S. No. & Name of Equipment –					
1					
2					
3					
4					
5					
6					
7					
8					
9					
10					
11					
12					
13					
	Total				

Total Price (In words):

Name of Tenderer _____

Business Address _____

Place: _____

Signature of tenderer _____

Date: _____

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)]**
			1st	**2nd**	**3rd**	**4th**	**5th**	
			a	**B**	**c**	**d**	**E**	

*** After completion of Warranty period**

NOTE:-

1. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
2. The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment and Turnkey (if any).
3. The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. 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.

Name_____
Business Address_____
Signature of Tenderer_____
Seal of the Tenderer_____

Place: _____
Date: _____

SECTION 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_____

Place: _____ **Signature of Tenderer**_____

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

SECTION – XII
QUESTIONNAIRE

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

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

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

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

SECTION – XIII
BANK GUARANTEE FORM FOR EMD

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

(1) If the Tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.

(2) If the Tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-

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

Sr. CGM - I,
HSCC (India) Ltd
E-6 (A) Sector -1 ,
Noida - 201301
UP INDIA

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

Sr. CGM - I,
HSCC (India) Ltd
E-6 (A) Sector -1 ,
Noida - 201301
UP INDIA

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)]**
			1st	**2nd**	**3rd**	**4th**	**5th**	
			a	**b**	**c**	**d**	**e**	

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

b) The CMC commence from the date of expiry of all obligations under Warranty i.e. from_____ (date of expiry of Warranty) and will expire on _____ (date of expiry of CMC)

c) The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years as contained in the above referred contract on yearly basis for complete equipment (including X ray tubes, Helium for MRI, Batteries for UPS, other vacuumatic parts, _____ & _____) and Turnkey (if any).

d) There will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.

e) During CMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/ technical/ operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.

f) All software updates should be provided free of cost during CMC.

g) The bank guarantee valid till _____ [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs. _____ [(fill amount) equivalent to 2.5 % of the cost of the equipment as per contract] shall be furnished in the prescribed format given in Section XV of the TE document, along with the signed copy of Annual CMC within a period of 21 (twenty one) days of issue of Annual CMC failing which the proceeds of Performance Security shall be payable to the Purchaser/Consignee.

h) If there is any lapse in the performance of the CMC as per contract, the proceeds Annual CMC bank guarantee for an amount of Rs. _____ (equivalent to 2.5 % of the cost of the equipment as per contract) shall be payable to the Consignee.

i) **Payment terms:** The payment of Annual CMC will be made against the bills raised to the consignee by the supplier on six monthly basis after satisfactory completion of said period, duly certified by the HOD concerned. The payment will be made in Indian Rupees.

j) **Paying authority:** _____ (name of the consignee i.e. Hospital/ 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/debarred/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 an full address of your Banker (s) along with your Account Number			
11.	Have you fully accepted payment terms as per TE document?			
12.	Have you fully accepted delivery period as per TE document?			

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.

(Signature with date)

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

(Name, address and stamp of the tendering firm)

Section – XXI
Consignee List

Consignee	Medical Institutions	Contact Address.
Director, AIIMS, Raebareli-229405. U.P., India.	Director, AIIMS, Raebareli-229405. U.P., India.	Director, AIIMS, Munshiganj, Raebareli-229405. U.P., India.

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

INTEGRITY PACT
Section – XXII

To,

……
…….
…….

Sub: NIT No. ……. for the work …….....

Dear Sir,

It is here by declared that the Medical Superintendent, AIIMS Raebareli (Purchaser) is committed to follow the principle of transparency, equity and competitiveness in public procurement.

The subject Notice Inviting Tender (NIT) is an invitation to offer made on the condition that the Bidder will sign the integrity Agreement, which is an integral part of tender/bid documents, failing which the tenderer/bidder will stand disqualified from the tendering process and the bid of the bidder would be summarily rejected.

This declaration shall form part and parcel of the Integrity Agreement and signing of the same shall be deemed as acceptance and signing of the Integrity Agreement on behalf of the Purchaser.

Yours faithfully

Medical Superintendent,
AIIMS, Raebareli

To,

Medical Superintendent,
AIIMS Raebareli

Sub: Submission of Tender for the work of ……...……....

Dear Sir,

I/We acknowledge that the AIIMS Raebareli (Purchaser) is committed to follow the principles thereof as enumerated in the Integrity Agreement enclosed with the tender/bid document.

I/We agree that the Notice Inviting Tender (NIT) is an invitation to offer made on the condition that I/We will sign the enclosed integrity Agreement, which is an integral part of tender documents, failing which I/We will stand disqualified from the tendering process. I/We acknowledge that the making of the bid shall be regarded as an unconditional and absolute acceptance of this condition of the NIT.

I/We confirm acceptance and compliance with the Integrity Agreement in letter and spirit and further agree that execution of the said Integrity Agreement shall be separate and distinct from the main contract, which will come into existence when tender/bid is finally accepted by the Purchaser. I/We acknowledge and accept the duration of the Integrity Agreement, which shall be in the line with Article 1 of the enclosed Integrity Agreement.

I/We acknowledge that in the event of my/our failure to sign and accept the Integrity Agreement, while submitting the tender/bid, the Purchaser / HSCC (India) Limited shall have unqualified, absolute and unfettered right to disqualify the tenderer/bidder and reject the tender/bid in accordance with terms and conditions of the tender/bid.

Yours faithfully

(Duly authorized signatory of the Bidder)

To be signed by the bidder and same signatory competent / authorized to sign the relevant contract on behalf of the Purchaser

INTEGRITY AGREEMENT

This Integrity Agreement is made at ..... on this ..... day of ..... 20....

BETWEEN

AIIMS Raebareli (Hereinafter referred as the "Purchaser", which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

AND

.....(Name and Address of the Individual/firm/Company)Through…..... (Details of duly authorized signatory)…… (Hereinafter referred to as the "Bidder/Supplier" and which expression shall unless repugnant to the meaning or context hereof include its successors and permitted assigns)

Preamble

WHEREAS HSCC on behalf of Purchaser has floated the Tender (NIT No. .....) (Hereinafter referred to as "Tender/Bid") and intends to award, under laid down organizational procedure, contract for .....(Name of work)hereinafter referred to as the "Contract".

AND WHEREAS the Purchaser values full compliance with all relevant laws of the land, rules, regulations, economic use of resources and of fairness/transparency in its relation with its Bidder(s) and Supplier(s).

AND WHEREAS to meet the purpose aforesaid both the parties have agreed to enter into this Integrity Agreement (hereinafter referred to as "Integrity Pact" or "Pact"), the terms and conditions of which shall also be read as integral part and parcel of the Tender/Bid documents and Contract between the parties.

NOW, THEREFORE, in consideration of mutual covenants contained in this Pact, the parties hereby agree as follows and this Pact witnesses as under:

Article 1: Commitment of the Purchaser/ HSCC

(1) The Purchaser commits itself to take all measures necessary to prevent corruption and to observe the following principles:

(a) No employee of the Purchaser/ HSCC, personally or through any of his/her family members, will in connection with the Tender, or the execution of the Contract, demand, take a promise for or accept, for self or third person, any material or immaterial benefit which the person is not legally entitled to.

(b) The Purchaser/ HSCC will, during the Tender process, treat all Bidder(s) with equity and reason. The Purchaser will, in particular, before and during the Tender process, provide to all Bidder(s) the same information and will not provide to any Bidder(s) confidential / additional information through which the Bidder(s) could obtain an advantage in relation to the Tender process or the Contract execution.

(c) The Purchaser/ HSCC shall endeavor to exclude from the Tender process any person, whose conduct in the past has been of biased nature.

(2) If the Purchaser obtains information on the conduct of any of its employees which is a criminal offence under the Indian Penal code (IPC)/Prevention of Corruption Act, 1988 (PC Act) or is in violation of the principles herein mentioned or if there be a substantive suspicion in this regard, the Purchaser will inform the Chief Vigilance Officer of the Purchaser/ HSCC and in addition can also initiate disciplinary actions as per its internal laid down policies and procedures.

Article 2: Commitment of the Bidder(s)/Supplier(s)

(1) It is required that each Bidder/Supplier (including their respective officers, employees and agents) adhere to the highest ethical standards, and report to the Government / Department all suspected acts of fraud or corruption or Coercion or Collusion of which it has knowledge or becomes aware, during the tendering process and throughout the negotiation or award of a contract.

(2) The Bidder(s)/ Supplier (s) commits himself to take all measures necessary to prevent corruption. He commits himself to observe the following principles during his participation in the Tender process and during the Contract execution:

(a) The Bidder(s)/ Supplier (s) will not, directly or through any other person or firm, offer, promise or give to any of the Purchaser's/ HSCC's employees involved in the Tender process or execution of the Contract or to any third person any material or other benefit which he/she is not legally entitled to, in order to obtain in exchange any advantage of any kind whatsoever during the Tender process or during the execution of the Contract.

(b) The Bidder(s)/ Supplier (s) will not enter with other Bidder(s) into any undisclosed agreement or understanding, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to cartelize in the bidding process.

(c) The Bidder(s)/ Supplier (s) will not commit any offence under the relevant IPC/PC Act. Further the Bidder(s)/Contractor(s) will not use improperly, (for the purpose of competition or personal gain), or pass on to others, any information or documents provided by the Purchaser as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically.

(d) The Bidder(s)/ Supplier (s) of foreign origin shall disclose the names and addresses of agents/ representatives in India, if any. Similarly Bidder(s)/ Supplier (s) of Indian Nationality shall disclose names and addresses of foreign agents/representatives, if any. Either the Indian agent on behalf of the foreign principal or the foreign principal directly could bid in a tender but not both. Further, in cases where an agent participate in a tender on behalf of one manufacturer, he shall not be allowed to quote on behalf of another manufacturer along with the first manufacturer in a subsequent/parallel tender for the same item.

(e) The Bidder(s)/ Supplier (s) will, when presenting his bid, disclose any and all payments he has made, is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the Contract.

(3) The Bidder(s)/ Supplier (s) will not instigate third persons to commit offences outlined above or be an accessory to such offences.

(4) The Bidder(s)/ Supplier (s) will not, directly or through any other person or firm indulge in fraudulent practice means a willful misrepresentation or omission of facts

or submission of fake/forged documents in order to induce public official to act in reliance thereof, with the purpose of obtaining unjust advantage by or causing damage to justified interest of others and/or to influence the procurement process to the detriment of the Government interests.

(5) The Bidder(s)/ Supplier (s) will not, directly or through any other person or firm use Coercive Practices (means the act of obtaining something, compelling an action or influencing a decision through intimidation, threat or the use of force directly or indirectly, where potential or actual injury may befall upon a person, his/ her reputation or property to influence their participation in the tendering process).

Article 3: Consequences of Breach

Without prejudice to any rights that may be available to the Purchaser/ HSCC under law or the Contract or its established policies and laid down procedures, the Purchaser shall have the following rights in case of breach of this Integrity Pact by the Bidder(s)/ Supplier (s) and the Bidder/ Supplier accepts and undertakes to respect and uphold the Purchaser's absolute right:

(1) If the Bidder(s)/ Supplier (s), either before award or during execution of Contract has committed a transgression through a violation of Article 2 above or in any other form, such as to put his reliability or credibility in question, the Purchaser after giving 14 days' notice to the Supplier shall have powers to disqualify the Bidder(s)/ Supplier (s) from the Tender process or terminate/determine the Contract, if already executed or exclude the Bidder/ Supplier from future contract award processes.
The imposition and duration of the exclusion will be determined by the severity of transgression and determined by the Purchaser. Such exclusion may be forever or for a limited period as decided by the Purchaser.

(2) Forfeiture of EMD/Performance Guarantee/Security Deposit: If the Purchaser has disqualified the Bidder(s) from the Tender process prior to the award of the Contract or terminated/determined the Contract or has accrued the right to terminate/determine the Contract according to Article 3(1), the Purchaser apart from exercising any legal rights that may have accrued to the Purchaser, may in its considered opinion forfeit the entire amount of Earnest Money Deposit, Performance Guarantee and Security Deposit of the Bidder/Supplier.

(3) Criminal Liability: If the Purchaser obtains knowledge of conduct of a Bidder or Supplier, or of an employee or a representative or an associate of a Bidder or Supplier which constitutes corruption within the meaning of IPC Act, or if the Purchaser has substantive suspicion in this regard, the Purchaser will inform the same to law enforcing agencies for further investigation.

Article 4: Previous Transgression

(1) The Bidder declares that no previous transgressions occurred in the last 5 years with any other Company in any country confirming to the anticorruption approach or with Central Government or State Government or any other Central/State Public Sector Enterprises in India that could justify his exclusion from the Tender process.

(2) If the Bidder makes incorrect statement on this subject, he can be disqualified from the Tender process or action can be taken for banning of business dealings/ holiday listing of the Bidder/ Supplier as deemed fit by the Principal/ Owner.

(3) If the Bidder/ Supplier can prove that he has resorted / recouped the damage caused by him and has installed a suitable corruption prevention system, the Purchaser may, at its own discretion, revoke the exclusion prematurely.

Article 5: Equal Treatment of all Bidders/ Supplier /Subsuppliers

(1) The Bidder(s)/ Supplier (s) undertake(s) to demand from all subsuppliers a commitment in conformity with this Integrity Pact. The Bidder/ Supplier shall be responsible for any violation(s) of the principles laid down in this agreement/Pact by any of its Subsuppliers/sub-vendors.
(2) The Purchaser will enter into Pacts on identical terms as this one with all Bidders and Suppliers.
(3) The Purchaser will disqualify Bidders, who do not submit, the duly signed Pact between the Principal/ Owner and the bidder, along with the Tender or violate its provisions at any stage of the Tender process, from the Tender process.

Article 6- Duration of the Pact

The validity of this Integrity Pact shall be from the date of its signing and extend upto 5 years or the complete execution of the Contract to the satisfaction of both the Purchaser and Bidder/ Supplier, including warranty period, whichever is later. In case Bidder is unsuccessful, this Integrity Pact shall expire after six months from the date of signing of the Contract.
If any claim is made/lodged during the time, the same shall be binding and continue to be valid despite the lapse of this Pacts as specified above, unless it is discharged/determined by the Competent Authority.

Article 7- Other Provisions

(1) This Pact is subject to Indian Law, place of performance and jurisdiction is the Headquarters of the Purchaser, who has floated the Tender.
(2) Changes and supplements need to be made in writing. Side agreements have not been made.
(3) If the Supplier is a partnership or a consortium, this Pact must be signed by all the partners or by one or more partner holding power of attorney signed by all partners and consortium members. In case of a Company, the Pact must be signed by a representative duly authorized by board resolution.
(4) Should one or several provisions of this Pact turn out to be invalid; the remainder of this Pact remains valid. In this case, the parties will strive to come to an agreement to their original intentions.
(5) It is agreed term and condition that any dispute or difference arising between the parties with regard to the terms of this Integrity Agreement / Pact, any action taken by the Owner/Principal in accordance with this Integrity Agreement/ Pact or interpretation thereof shall not be subject to arbitration.

Article 8- LEGAL AND PRIOR RIGHTS

All rights and remedies of the parties hereto shall be in addition to all the other legal rights and remedies belonging to such parties under the Contract and/or law and the same shall be deemed to be cumulative and not alternative to such legal rights and remedies

aforesaid. For the sake of brevity, both the Parties agree that this Integrity Pact will have precedence over the Tender/Contract documents with regard any of the provisions covered under this Integrity Pact.

IN WITNESS WHEREOF the parties have signed and executed this Integrity Pact at the place and date first above mentioned in the presence of following witnesses:

..... (For
and on behalf of Purchaser)

..... (For
and on behalf of Bidder/Supplier)

WITNESSES:

1. .....
(signature, name and address)

2. .....
(signature, name and address)

Place: Date:

Annexure-A, Technical Specification

Blood & Fluid Warmer

1	Should be able to warm fluid /blood at a temperature range of 37 40c.	
2	Should be able to maintain or warm the water/blood when at a flow rate of 3L/hr.	
3	Should have digital temperature display of fluid.	
4	Alarms for disconnections, less water (if applicable) & over temp.	
5	Disposable tubing set for Fluid/Blood-100 Nos.	
6	Should have over temp, alarm test system.	
7	Should be useful for both in Adult & Paed. Patient.	
8	Should have US FDA or European CE with four digit notified body number certificate and certificate to be submitted or BIS	
9	It should be compatible with standard IV set commonly available in Indian market.	
	BOQ	
	Blood & Fluid Warmer with standard accessories	1 No
	Disposable tubing set for Fluid/Blood	100

Non-invasive ventilator

1	The unit shall be capable of being stored continuously in ambient temperature of 0-50deg C and relative humidity of 15-90%	
	a. IPAP: 4 to 25 cm	
	b. EPAP: 4 to 25 cm	
	c. Breath rate: upto 30 BPM with spontaneous for time mode	
	d. Timed inspiration: 0.5 to 3.0 sec	
	e. Rise Time: 150 to 600 msec	
2	Mode:- CPAP with PS, Biphasic pressure control, apnea backup	
3	System with leakage compensation.	
4	System should be supplied with all reusable accessories	
5	Power input to be 220-240VAC, 50Hz fitted with Indian plug	
6	Should have US FDA or European CE with four digit notified body number certificate and certificate to be submitted. or BIS	
7	Comprehensive training for lab staff and support services till familiarity with the system	
8	User/Technical/Maintenance manuals to be supplied in English.	
9	List of important spare parts and accessories with their part number and costing.	
10	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist.	
	BOQ	
1	Non-invasive ventilator with standard accessories	1 No
2	Masks with all sizes (Oral & Nasal)	2 sets each

Recovery cum Transport Patient Trolley

1	Should have three sectional mattress base made of X- Ray translucent high pressure laminate .
2	Should have facility to insert X-Ray Cassette from either end sides of the trolley.
3	Should be able to X- Ray the patient from positions along the entire length and width of the trolley.
4	Should have pneumatic stepless adjustment for back section, Trendelenburg, reverse trendelunberg and foot section.
5	Should have hydraulic height adjustment with a foot paddle on either side of the trolley
6	High pressure laminate mattress base should be lift-able for easy cleaning and disinfection of the x-ray platform.
7	Frame should be made up of epoxy powder coated steel.
8	Should have Central braking system with steering facility, heavy duty castors diameter 150mm or more. Should have facility to rotate 360 deg in low radius with control.
9	Should have facility to fix IV rod at all the four corners and middle or mattress base frame.
10	Should have place for fixing „B" Type Oxygen Cylinder.
11	Manufacturer should have ISO 13485 certification for this product.
12	Should be supplied complete with and aid for patient transfer made up of low fiction fabric and suitable for heavy patient transfer to and from OT Table, Bed, Trolley, Stretcher x-ray table etc.
13	Safe working load at least > 180 Kg.
14	Should be supplied with standard accessories such as
	a. Anti static Hygienic Mattress (80mm) with pull straps, 01pc
	b. Collapsible Side Rails, (detachable) 01pair
	c. I.V. Rod (height adjustable with self locking facility) 01pc
	d. Cylinder Holder for "B" Type Oxygen Cylinder 01pc
	e. Aid for patient transfer 01pc
15	Dimensions:
	a. Max. Length : 205 cm or more
	b. Max. Width : 75 cm or more
	c. Height : Min. 54 cm or less
	d. Max. 90 cm or better
	e. Trendelenburg : 14deg or better
	f. Anti Trendelenburg : 6 deg or better
	g. X-ray viewing area : entire length

	BOQ	
1	Recovery cum Transport Patient Trolley	1 No
2	Anti static Hygienic Mattress (80mm) with pull straps	1 No
3	Collapsible Side Rails, (detachable)	1 No
4	I.V. Rod (height adjustable with self locking facility)	1 No
5	Cylinder Holder for "B" Type Oxygen Cylinder	1 No
6	Aid for patient transfer	1 No

Monitor (50Nos) for ICU with CNS(05Nos)

	1. Advanced high end modular/New Modular patient monitor having integrated non-invasive, invasive measurement & features suitable for neonate, pediatrics & adult patients.
	2. Monitor must have bright, highly visible minimum 15" or more color TFT display with full touch screen facility.
	3. Monitor must have the facility to display min 8 waveform or more, along with related numerical parameters on single screen.
	4. Monitors must be able to monitor ECG, SpO2, NIBP, Respiration, dual temp, dual IBP, modular ETCO2.
	5. Monitor must be upgradable to connect for CO (Thermodilution), BIS/Entropy, Inbuilt NMT, four IBP, module. (Price to be quoted separately)
	6. Monitor must have advanced arrhythmia detection and ST Analysis as standard feature.
	7. System must have minimum 24 hours review data including graphical and tabular trends, arrhythmia event recalls, alarms. Full disclosure for user selectable waveform, hemo and lung trends.
	8. Monitor must have the time linked review function. Monitor must show the waveforms for the time when the arrhythmia occurred in case of arrhythmia recall.
	9. Monitor must have facility to display 12 lead ECG.
	10. Monitor should have ST segment calculations
	11. Must have inbuilt rechargeable battery for minimum 1 hour operation.
	12. Must have facility to hook up with network printer, at any point of time and able to take print any review data (Trends, Graphs, waveform full disclosure, arrhythmia recall etc.)
	13. Monitor must be able to connect to central monitoring station and should use single network for all kind of networking with the central station or other hospital information system (HIS).
	14. All Monitors should be able to communicate with each other and can display other patient monitor data without the need of central monitor..
	15. Monitor should have US FDA or European CE with four digit notified body number certificate and certificate to be submitted.or BIS
	16. Each monitor to be supplied with following:
	a. 3 and 5 Lead ECG cable 2 No. & 1 no
	b. Adult, Pediatirc and neonate reusable SpO2 probe – 2 No. each(Ear lobe probes for neonates)
	c. NIBP cuffs for Adult, Pediatrics and neonates – 2 no each (of different sizes)
	d. Temp Probe – 2 Nos. (skin & esophageal one each)
	e. IBP connection cable – 02 Nos.
	f. IBP Disposable Pressure Transducers – 10 Nos
	g. ETCO2 sample line: 10 nos (if applicable)
	17. CNS of 19" LED to be provided with one laser printer and one 21" slave monitor. .The cabling has to be done by bidder in the ICU One CNS with 16 monitors
	18. EtCO2 values should be should shown on main monitor screen.
	19. the monitor should have monitor to monitor over view facility and data transfer over the network
	20. It should be possible to see data of other patient on the monitor in the same ICU and patients of other ICU's or the monitor by LAN cabling. The cabling should be done by the bidder.

	BOQ	
1	High-end Monitor for ICU without modules	1 No
2	Mounting Bracket	1 No
3	Module for ECG, SpO2, NIBP, Dual Temp, Resp (Combined or seperate)	1 No
4	Module for Two IBP	1 No
5	Module for ETCO2	1 No
6	CNS of 19" LED and one 21" slave monitor.with cabling in the ICU. One CNS with 16 monitors	1 No
7	laser printer	5 No
8	3 Lead ECG Cable	2 Nos
9	5 Lead ECG Cable	1 No
10	Adult SpO2 Probe	2 Nos
11	Pediatric SpO2 Probe	2 Nos
12	Neonate SpO2 Probe	2 Nos
13	NIBP Hose	2 Nos
14	NIBP Cuff (Adult)	5 Nos
15	NIBP Cuff (Pediatric)	5 Nos
16	NIBP Cuff (Neonate)	5 Nos
17	Extra Large NIBP Cuff	2 Nos
18	Temp Probe - skin & esophageal	1 each
19	IBP connection cable	2 Nos
20	IBP Disposable Pressure Transducers	10 Nos
21	ETCO2 sample line	10 Nos
22	Module for CO (Thermodilution)	1 No
23	BIS Electrode	10 nos
24	Module for BIS/Entropy	1 No
25	Module for Inbuilt NMT	1 No

Recovery ward modular Monitors

	Monitor should have the following –	
1	Modular/New Modular monitor with Integrated non-invasive measurements & features suitable for Neonate, Pediatrics & Adult patients	
2	Bright, highly visible minimum 12 " or more Colour TFT display with full touch screen facility.	
3	Portable with weight less than 8 kgs including battery.	
4	Facility of displaying minimum 4 or more waveform along with related numerical parameters on single screen.	
5	Facility to monitor ECG, SpO2, NIBP, 2 IBP, Respiration, temperature and EtCO2.	
6	Facility for enlarge numeric display to be visible from 10 feet distance. arrhythmia detection, ST-analysis .	
7	Facility to monitor last min 48 Hours or more graphical and numerical trends having options to select the items to be displayed in NIBP trend table.	
8	Internal rechargeable battery for 1 hours or more operation along with battery charge indicator	
9	Event review facility including NIBP.	
10	Review up to 24 hours files for the numeric data of alarm occurrences from the alarm history table.	
11	Graded audio/visual alarm colour coding & should be visible from a distance.	
12	ESU & Defibrillation protection.	
13	Should have US FDA or European CE with four digit notified body number certificate and certificate to be submitted. or BIS	
14	Should have inbuilt two channel recorder	
15	CNS of 19" LED to be provided with one laser printer .The cabling has to be done by bidder in the HDU One CNS with 10 monitors **(Optional)**	
16	Monitors should be supplied with accessories mentioned in BOQ.	
	BOQ	
1	Monitor without modules	1 No
2	2 channel recorder	1 No
3	Mounting Bracket	1 No
4	Module for ECG, SpO2, NIBP, Dual Temp, Resp (Combined or seperate)	1 No
5	Module for 2IBP	1 No
6	Module for ETCO2	1 No
7	5 Leads ECG cable	5 No
8	Reusable Spo2 probe adult	5 Nos
9	Reusable Spo2 probe pediatric	2 no
10	NIBP Hose	2 Nos
11	NIBP cuff for Adult & Pediatrics	5 No each
12	Core Temperature probe	2 nos
13	CNS of 19" LED to be provided with one laser printer .The cabling has to be done by bidder in the ICU One CNS with 10 monitors **(Optional)**	1 no

Transport Monitor

	The monitor should have:
1	High – resolution colour TFT display of minimum 8" or more
2	It should be rugged and sturdy for transport use.
3	Should be able to monitor ECG, NIBP, SpO2., Two IBP Temperature and Respiration
4	Plethysmograph with perfusion indicator
5	Monitor should be at least three channel
6	24 Hrs. graphical / tabular trends
7	NIBP trends memory should be at least 50 readings (tabular)
8	Suitable for Adult / paediatric/neonate.
9	Selectable Arrhythmia detection
10	Should have inbuilt two channel recorder
11	Must have Graded and Colour coded alarms
12	User selectable screen formats and user – friendly menu driven functions.
13	Battery backup for at least 3 Hrs.
14	Should be supplied with:
	One 3 lead ECG cable, Reusable SpO2(adult, paediatric ,neonate) sensor, NIBP cuffs (each for Adult ,child and neotate)
15	It should have US FDA or European CE with four digit notified body number certificate and certificate to be submitted. or BIS
16	Product should have Airworthiness RTCA DO-160 D, section 7,8,21 and Vibration standard MIL STD 810F, method 514.5 certifications. (Preferable)

	BOQ	
1	Monitor as per tender specification	1 No
2	2 channel recorder	1 No
3	3 Leads ECG cable	1 No
4	Reusable Spo2 probe adult	2 Nos
5	Reusable Spo2 probe pediatric	1 no
6	Reusable Spo2 probe neonatal	1 no
7	NIBP cuff for Adult ,child and neotate	1 No each
8	NIBP Hose	1 no
9	Temperature probe esophageal	1 no

Anaesthesia Machine with Integrated Monitor & Ventilator (High End)

	I. The Anaesthesia Machine should have the following:
1	Should have pipelines attachment for oxygen, nitrous oxide and compressed air.
2	Should have yoke assembly for oxygen and nitrous oxide with pin index system.
3	Durable main switch to put the machine in the on or off position.
4	There should be digital control and display for oxygen & electronic gas mixing.
5	Should have safety features like :
	a. Should provide 25% or more of oxygen when an anaesthetic gaseous mixture is in used.
	b. Should be provided with "pneumatic/ electronic" hypoxic guard.
	c. Should have extra flow meters for oxygen only.
6	Should have oxygen flush with a flow rate of more than 35L/min.
7	It should have alternate O2 supply mode in case electronic gas mixture failure
8	Should be able to hold two seletatec vaporizers (Isoflurane, Sevoflurane & Desflurane) simultaneously. Vapourizers should be maintenance free. **Cost of all vaporizers to be quoted separately.** Any two vaporizers will be supplied as standard. The anesthesia machine should provide desflurane compensation.
9	Co2 absorber system with the following features :-
	a. Single/Double canister
	b. Autoclavable
	c. Canister capacity of 0.8 kg or more.
	d. It should be possible to bypass the canister if removed during clinical cases to change sodalime.
10	APL valve assembly and Bag mount should be conveniently placed.
11	Independent port for open circuit.
12	Should be provided with one or more drawers.
13	Machine should have a good quality handle and castors to move the
	machine with locking system.
14	The ventilator of the machine should have the following features:-
	a. Should be electronically controlled.
	b. Should be suitable for both pediatric , adult and new born.
	c. It should have coloured screen.
	d. Volume and pressure control mode of ventilations.
	e. Electronic peep
	f. Both SIMV and pressure support mode.
	g. Tidal volume range from 20ml to 1200 ml or more
	h. Respiratory rate from 4 to 80 or more
	i. I:E ratio
	j. Display : Respiratory rate, peak airway pressure and PEEP
	k. There should be no collection of water in the breathing system.
15	Should have independent paramagnetic/Galvanic oxygen sensor for FIO2 monitor and flow sensor for spirometry. (Both the sensor should be covered under warranty & CMC)
16	The work station should be capable of delivery of low and minimal flow anaesthesia.
17	Should be able to display
	a. Pressure Vs time
	b. Volume /Flow Vs time
18	Should have battery backup of atleast 60 minutes
20	Bidder must ensure regular supply of medical grade Sodalime with rate quoted separately.
	II. The Monitor should have the following:
1	A modular configurable patient monitor
2	Should have atleast 15" or more TFT colour display with up to 10 waveforms at a time
3	Should be touch screen
4	Should be able to measure the following parameters:
	a. 3 and 5 lead ECG with electrocautery & defibrillator filter with ST Segment & arrhythmia detection with analysis,
	b. Respiration , SpO2 , temperature
	c. NIBP, 2 IBP , ETCO2
	d. Multi –Gas analysis with auto detection of all anesthetic agents
	e. Integrated BIS/entropy Monitoring.
	f. Upgradable to cardiac output (thermodilution) monitoring. **(price to be quoted**
	g. Integrated modular NMT monitor parameter display on the main monitor **(price to be quoted separately)**
5	Should be able to automatically detect and calculate MAC of all anaesthetic gases.

6	Should be able to calculate and display FIO2.
7	Intelligent cooling system to keeps the unit running quiet during use.
8	Separate indicator lights for technical and physiological alarms.
9	Maximum BEEP tone should be loud enough to be audible from atleast a distance of 12 feet
10	Should have graded audio and visual alarms for the following parameters:
	a. Blood pressure - High and Low
	b. SpO2 - High and Low
	c. Heart rate - High and Low
	d. Respiration - High and Low
	e. FIO2 - High and Low
11	Trends – Upto 48 Hours or more, trend analysis, upto 24 hours full disclosure.
12	Inbuilt Battery Back- up – 1 hour or more.
13	Display of Anaesthesia ventilator data like wave forms for flow, pressure, agent and loops, and trends on patient monitors.
14	The quoted model (Both Anaesthesia and Monitor) should be European CE with four digit notified body number or US FDA approved and certificate to be submitted.or BIS
15	System should have Anaesthesia Charting facility. (Optional, price to be quoted separately)
16	The machine should be supplied with the following accessories:
	a. ECG Cable – 2 nos
	b. Reusable SpO2 Sensors: 5 each for Adult, Pediatric & Neonatal.
	c. NIBP Cuff: 5 each for Adult, Pediatric & Neonatal.
	d. IBP Transducers: Disposable 10 nos.
	e. IBP Cable: 5 nos
	f. BIS/Entropy Electrode: 10 nos
	g. ETCO2 Sample Line: 10 nos
	h. Reusable autoclavable Breathing circuit: 2 nos each for Adult & pediatric
III.	Anaesthesia machine with ventilator, Anaesthesia charting and patient monitor should be from same manufacturer.

Sl.No	BOQ	Qty
1	Anaesthesia Machine with Integrated ventilator without vaporizer	1 No
2	Isoflurane vaporizer	1 No
3	Sevoflurane vaporizer	1 No
4	Desflurane vaporizer	1 No
5	Monitor without modules	1 No
6	Module for ECG, SpO2, NIBP, Dual Temp, Resp (Combined or seperate)	1 No
7	Module for Two IBP	1 No
8	Module for ETCO2	1 No
9	Module for BIS/Entropy	1 No
10	Module for CO (Thermodilution)	1 No
11	Module for Inbuilt NMT	1 No
13	Anaesthesia Charting (Optional)	1 No
14	ECG Cable	2 No.s
15	Reusable SpO2 Sensors: for Adult, Pediatric & Neonatal.	5 No.s each
16	NIBP Cuff: for Adult, Pediatric & Neonatal.	5 No.s each
17	NIBP Hose	2 nos
18	IBP Transducers: Disposable	10 No.s
19	IBP Cable:	5 No.s
20	BIS/Entropy Electrode	10 No.s
21	ETCO2 Sample Line:	10 No.s
22	Reusable autoclavable Breathing circuit: for Adult & pediatric	2 No.s
23	Sodalime per kg (Optional)	1 kg

Blood Gas Analyser (ABG Machine)

1	Fully automatic, upgradeable, fast electrolyte & Blood gas analyzer.
2	**Essential Measured parameters; pH, pCO2, pO2, SaO2 with co-oximetry, tHb, Lactates/Glucose, Na+, K+, Ca++, Cl-. All these parameters should be measured simultaneously.**
3	Calculated parameters should include BE, BE ecf, HCO3, Anion Gap etc.
4	Sample volume-less than **150 micro litre**
5	Fast analysis time – less than 60 sec.
6	Maintenance free electrodes with individual electrodes ON/OFF facility.
7	Fully automatic liquid calibration of all parameters at user-defined intervals without the use of Gas calibrated reagents, external gases, tanks or regulators.
8	Continuous reagent level monitoring with graphic display.
9	Data display on well-illuminated, adequate size screen display.
10	Data print out on built in thermal printer
[illegible]	Built in auto Quality control facility.
[illegible]	Suitable UPS with at least 30 min backup.
13	Cost of reagents/Cartridge(including electrode if applicable) to be quoted for comparative evaluation.Reagents for two year and extendables for another three years @ at least 20 samples/day for all tests should be quoted and it will be taken for price comparison.
14	Stand by blood gas cum electrolyte analyzer in case of breakdown.
15	Should have local service facility
16	Guarantee to supply spares for minimum 10 years
17	It must be US-FDA /European CE with four digit notified body number approved and certificate to be submitted. **or BIS**
18	Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/para number of original catalogue/data sheet.
	BOQ

1	ABG Machine as per specification	Unit Cost(Per samples for all	1 No.
2	Reagents/Cartridges per samples for all tests for first two years (365X20X2)		14600 samples
3	Reagents/Cartridges per samples for all tests for next three years (365X20X3)		21900 samples

Nerve Stimulator

1	Should be suitable to identify peripheral nerves and giving percutaneous stimulation in neuron muscular block.	
2	Should have a percutaneous monopolar/ bipolar stimulating handle for localization of nerves without puncturing the nerve which should be autoclavable.	
3	Stimulation current:1-5 mA	
4	Stimulation voltage: 95 V max	
5	Stimulation frequency: 1 Hz / 2 Hz	
6	Impedance measuring range: 1 kΩ – 90 kΩ for target stimulation current > 0.5 mA	
7	Stimulus duration: 0.05 ms – 0.10 ms – 0.30 ms – 0.50 ms – 1.00 ms ±1%	
8	Weight: 300gm or less	
9	Should continuously measure & display actual current passing through the patient and selected current.	
10	Should have pause function to interrupt stimulation without delivering impulses test function	
11	Should automatically switch off with a acoustic warning if not operated more than 10 minutes .	
12	Should have LCD display for stimulation current/voltage.	
13	Machine should be USFDA/European CE with four digit notified body number certified or BIS	
	Should be supplied complete with	
	Plexus Cannula with Thin polymer insulation coating (Teflon coating not desirable) of Length 50mm, 100mm and 150mm – 10 nos. each	

	BOQ	
1	Nerve Stimulator as per specification	1 No
2	Plexus Cannula with Thin polymer insulation coating (Teflon coating not desirable) of Length 50mm	10 nos.
3	Plexus Cannula with Thin polymer insulation coating (Teflon coating not desirable) of Length 100mm	10 nos.
4	Plexus Cannula with Thin polymer insulation coating (Teflon coating not desirable) of Length 150mm	10 nos.
5	Needles for continuous plexus block of different sizes	Total 10 nos

Fibreoptic Bronchoscope

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

Sl NO	BOQ	
1	Flexible Fiberoptic Bronchoscope Adult	1 No
2	Flexible Fiberoptic Bronchoscope Paediatric	1 No
3	Flexible Fiberoptic Bronchoscope Neonatal **(Optional)**	1 No
4	Monitor HD	1 No

5	Video Processing System with Computer	1 No
6	Light Source, LED	1 No
7	Trolley	1 No
8	Spare LED bulb	1 No
9	Reusable and autoclavable biopsy forceps	2 No
10	Cleaning/maintenance kit including container for diinfectant solution	1 Set
11	Brush Biopsy (Protected)	10 pieces.
12	Foreign body forceps basket type **(Optional)**	2 No

Echocardiography System with Advanced 2D Facility

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

c.	Memory- 256 frames or more in quad loop. M Mode & Doppler Scroll Memory- 40seconds or more.
d.	Frame grabber facility for post analysis.
19	Various maps for pre and post processing.
20	ECG trigger facility.
21	User defined system and application presets for multi-user department.
22	Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and contrast stress protocol usable for stress echocardiography.
23	Tissue movement colorization with quantification possibly for IHD/CAD/Heart Failure patient
24	Three or more active transducer ports.
25	Colour Map resolution up to 128 levels.
26	Facility for high definition digital acquisition, review and editing of complete patient studies.
27	PC based Peripheral system comprising of dedicated computer of standard make, at least 1 TB storage space (Hard disc) with 8 GB RAM or more with a Microprocessor speed of more than 3.00 GHz, frame grabber incorporated (All Software Inclusive) interfaced with the echocardiography machine with DVD writer and a high quality Colour Laser printer.CD/DVD produced should be playable on any system.
28	Online UPS of suitable rating with voltage regulation and spike protection for 30 min back up.
29	**Standards, Safety and Training**
29.1	Should have European CE with 4 digit notifying body number/USFDA Approved certificate to be provided.or BIS

Sl No	**BOQ**	**QTY**
1	Colour Doppler Echocardiography System with 2D facility , as specified	1 no.
2	Digital Storage and Retrieval device	1 no.
3	Adult Cardiac probe	1 no.
4	Linear probe	1 no.
5	Pediatric Cardiac probe	1 No.
6	Adult Convex Probe	1 No.
7	Multi plane TEE Probe for Adult echocardiography	1 no.
8	Colour Print Paper- 500 sheets	1 no.
9	ECG Cable	5 no.
10	Laser Colour Printer	1 no.
11	Suitable UPS for a 30 minute backup for whole system.	1 no.
12	Standalone PC (Windows based) with suitable DICOM viewer	1 no.
13	CD	100 No
14	DVD	100 No

TMT Machine (Stress test system)

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

Sl No	BOQ	QTY
1	Stress test system	1 No.
2	Treadmill	1 No.
3	PC (personal Computer)	1 No.
3	UPS for Computer System	1 No.
4	Suitable Servo controlled Stabilizer for Treadmill	1 No.
5	Laser Printer	1 No.
6	NIBP	1 No.
7	Defibrillator Bi- Phasic	1 No.

Holter system with work station

1	PC based latest software capable of working with microsoft windows
2	The system should have the capability to acquire/analyse 12 lead ECG derived out of 3 Channel using 5 electrode for 48 Hrs. With facility to display/print 12 lead ECG at any point of time.
3	Should be able to re-edit individual form classes.
4	Should be able to consolidate individual form classes.
5	Should have scroll function for the over view (super page of the ECG)
6	System should be capable of analyzing various arrhythmias like ventricular ectopics, supraventricular ectopics, ventricular tachycardia, ventricular fibrillation, supraventricular tachycardia, atrial fibrillation, sinus pause.
7	Should have the facilities of
a	Heart Rate Variability
b	QT Analysis
c	T wave alternans
d	Heart rate turbulence
8	Operator should be able to edit and reclassify beats and arrhythmias.
9	Report format should include covering page, arrhythmia analysis report, ST segment analysis, automatically and manually selected ECG Strips.
10	ST segment analysis should be available for all three channels.
11	QT analysis with validation
12	Any ECG print out should be possible.
13	Should save 48 hours of ECG into flash memory card / inbuilt memory.
14	Saved data should be read using integrated reading device.
15	Software should include
	a) Holter analysis
	b) Trends
	c) Strips
	d) Page
	e) Final report
	f) Shape
	g) Event review
	h) Episode review
	i) Final report
	j) TWA alterns analysis
16	Should have Print out facility.
17	**Recorders with following Configuration**
17.1	3 Digital recorder should have 128 samples/sec/channel for recording and storage 1000/sec/channel for VLP.
18	**PC- Configuration**
1	Should be supplied with a Latest generation PC, (8GB RAM ,processor i7 or above,Memory 1TB Hard drive.)
2	Suitable Colour Laser printer.
3	UPS minimum 30 minutes backup
19	Product should have European CE with 4 digit notifying body no/USFDA Approved certificate to be provided or BIS

Sl No	BOQ	QTY
1	Holter Monitor, as specified	1 no.s
2	Recorders, as specified	3 no.s
3	PC- Configuration, as specified	1 no.s
4	Colour laser Printer	1 no.s
5	UPS of minimum 30 minutes back up	1 no.s

Tilt Table (Motorised)

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

S. No.	ADVANCE ELECTRONIC DENTAL CHAIR
1	Fully motorized, pneumatically / electrically driven, which gives smooth and non-jerky start and stop.
2	Lowest height range should be between 300 - 450 mm to improve visibility and access.
3	Chair should have safety brake system while going down for patient exit position
4	Chair should have toe movement. While backrest moves down, toe should move up
5	The design should enable the operator to be close to the patient to provide optimum vision of the operating field and safe control of all component devices
6	The base and other structure should have a corrosion resistant coating with cast metal base.
7	The backrest should be ultra thin, flexible, highly comfortable, seamless long life upholstery and should disinfectible
8	The chair should be designed to provide good ergonomics for both operator and assistant
9	Chair should have adjustable ergonomic headrest
10	Should be Noiseless DC Motor
11	The chair movement control should be at both fingertip panel and user friendly foot control with all the functions and should have atleast two patient entry programs 1 – rinse, 2 – exit program.
12	Should have integrated power supply for fiber optic hand pieces, piezo electric motor etc
13	All the outlet & inlet for the services to the chair should be concealed in the box to be at the foot area of the chair or within the unit, as an infection control measure
14	Should be over head delivery system with minimum 5 delivery ports for various handpieces, scaler and 3-way syringe (tip autoclavable, with 6 spare tips)
15	Should have minimum two high Speed Air Rotor terminals with water control on coupling with at least one fibre optic terminal
16	It should have one in-built Piezon LED Ultrasonic Scaler (frequency 28-36 KHz) with 4 scaler tips and one set of perio-curette tips with one set of all endodontic attachments.
17	The over head delivery system should have balanced flax arms with pneumatic bracket
18	The handpiece control block should flow through water design to eliminate stagnant water
19	Built-in antiretraction valves and flush valve system for infection control
20	Autoclavable stainless steel quick disconnect water syringe, with 10 extra tips for each chairs.
21	Should have one Brushless Micromotor fiberoptic light with internal spray of water with speed range of 1,000- 40,000 RPM with cutting power in the range between 50 - 70 watt.
22	Assistant side should have high vacuum, medium vacuum suction and 3 way syringe with spittoon and Tumbler water connections. The Suction system should be compact, unique, Wetline Suction with flow rate of atleast 350 Ltr/minute.

23	X-Ray double film (14"x17") viewer (LED Based)
24	It should be supplied with following scratch resistant handpieces 1. Fiber optic Air rotor nos. 1. 2. Micromotor straight and contra angle (nos. 1 each) 3. Fiber optic Miniature Air rotor handpiece nos. 1
25	Hi resolution LED Dental Camera system with digital signal processor along with ≥ 15" LCD Monitor mounted on the Dental Chair.
26	Movable cuspidor box and Movable assistant control system should have:
	1. Saliva ejector
	2. Autoclavable High volume evacuator
	3. Autoclavable 3-way syringe
	4. High quality stain proof vitreous China bowl with adjustable cup fill and bowl rinse timers
	5. Clean water bottle system
27	Should have latest Sensor operated Non Touch (On/Off) LED Light
28	With luminosity of minimum 30000 to 40000 lux with maximum degrees of rotation of light arm movements
29	Light Head with axial movements - Horizontal, Vertical, Axial and diagonal adjustment
30	LED light 5000 K cool light or similar high quality light
31	Three position intensity with high, medium and Low settings
32	**For Operator Stool**
	1. Cast-metal/alloy base with five tile castors
	2. Height adjustable operator stool with adequate two way lumbar and back support and foot ring.
	3. Height range between 400 - 700 mm
33	**For Assistant Stool**
	1. Height range between 500 - 800 mm
	2. Cast-metal/alloy base with five tile castors
	3. Height adjustable assistant stool with adequate lumbar and back support and foot ring.
34	Suitable Medical grade absolutely oil Free Compressor. It should have air moisture filter It Should have non retraction Valve Pressure guage Minimum 0.75 HP power Air tank capacity of 25 lts to 35 lts It should have Auto cut off switch should be Noise less not more than: 64 dB Dust filter, microbial filter. Compressor tank should be internally epoxy coated
35	Demonstration of the Quoted item is must at the HLL Office Sector 62 Noida.
36	The unit should be capable of being stored continuously in ambient temperatures of 0 – 50 degree centigrade and relative humidity of 15 – 90 %.

37	The unit should be capable of operating continuously in ambient temperatures of 10 – 45 degree centigrade and relative humidity of 15 – 90 %.
38	Power input to be 220 – 240V AC, 50 Hz
39	Manufacturer should have ISO certification for quality standards
40	Sholud be US-FDA or European CE with 4 digit notified number or BIS
41	Electrical safety conforms to standards for electrical safetyIEC60601-1 (OR EQUIVALENT international/national standard) General requirement for Electrical safety of Medical Equipment.
42	System as specified on turn key basis
43	All consumables required for installation and standardization of system to be given free of cost.
44	Accessories as specified
51	Cabinetry, drawers can be opened by push-latch or with handles. With clean lines and a large storage capacity Provision for proper stacking of Instruments. Should be metallic/SS made. Whole structure should be made of steel frame which should be around 1.0mm thick with double steel layer. The top should be made of Corian/marble durable, resistant to cauterization and easy to clean. Rail guide should be of flip return design. The different drawer compartments should satisfy different requirements. Different types of compartments should meet different dental needs, made of ABS Plank, resistant to temperature variation and anti-chemical. It should have two small and two big drawers with smooth nylon casters. High quality rust resistant powder coating on complete steel structure. Usable storable height minimum 840 mm. Width / Depth 450 – 500 mm Length Minimum 6 feet. Note: The above specifications for the storage units may be customizable as per on-site requirement.
52	A mobile dental cabinet of 2 feet (L) x 2 feet (W) x 3 feet (H) with customized multiple drawers should be supplied. The top should be cleanable and resistant to corrosive changes to available chemical disinfectant.
53	Necessary cables and all other accessories those are required for the smooth functioning of the system to be supplied
54	User/Technical/Maintenance manuals to be supplied in English
55	Certificate of calibration and inspection.
56	List of important spare parts and accessories with their part number and costing
57	List of Equipment available for providing calibration and routine Preventive Maintenance Support. As per manufacturer documentation in service/technical manual.

58	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.
59	The supplier would do all the necessary civil, electrical, Plumbing other changes required for the effective installation and functioning of the Dental Chair.
60	Servo Voltage stabilizer of appropriate ratings meeting ISI Specifications. (Input 160-260 V and output 220-240 V and 50 Hz fitted with Indian plug) should be quoted along
61	The bidder will give rate list of all possible spares, accessories & consumables if any, as part of financial bid. If price of any spare is not mentioned & is required for repair in life time of equipment/instrument, then the firm will be obliged to give it free throughout life cycle of the equipment.

TABLE TOP AUTOCLAVE
1. Sterilizer Type: Table Top Sterilizer.
2. Capacity: 30 liters or more
3. Chamber Size: The sterilizer should have Rectangular/Cylindrical chamber with suiting the volume for
4. Maximum processing capacity per charge.
5. Quality System Compliance: Sterilizer should comply the quality systems as per ISO 9001:2000, EN ISO
6. Types of Cycles Process: Table Top Sterilizers should be equipped with B-process as per latest International standards
7. Should be made of S.S.316 & should comply the Pressure Equipment Directive (PED) & EN 13445 norms or equivalent
8. Chamber should have minimum 5 years warranty or should confirm 44- 50,000 process minimum life.
9. Chamber should have working pressure 2.2 bar& design pressure upto 3.8 bar.
10. Chamber should have Stress & Fatigue analysis reports for material & construction of the pressure vessel.
11. Chamber should be equipped with electrically heated jacket for preheating on stand by mode
12. Should have horizontal sliding/Hinged door with silicon elastomer rubber gasket to withstand temperature upto 140°C.
13. A disposable air filter should be provided for filtering the atmospheric air before entering inside the chamber. The filter separation efficiency should be higher than 99.998% for particle size less than 0.3µm
14. Following cycles should be available:
134°C Wrapped & Unwrapped
121°C Wrapped & Unwrapped
134°C Flash/Rapid open instrument cycle.
134°C Textile.
134°C Prion.
15. Test programs: Bowie & Dick, Leak Test, Helix Test
16. Sterilizer should have inbuilt water reservoir with storage capacity of 3 – 5 Litres. The water reservoir should have easy access for cleaning & to avoid bio film.
17. Sterilizer should have inbuilt steam generator with warranty of 5 years on heating elements. The steam generator design should be with integrated energy storing system for building up power for sterilization loads in short time
18. The control system should be microprocessor based PLC system specially designed for sterilization applications. The control system should have CPU processor. Digital input/output controls, analog measuring inputs & COM ports for printer. Should have inbuilt printer for providing the verifiable specification details for each cycle.

19. Alarms: Automatic process checking & failure correction should be possible by the control system. The range of alarm should include Temperature & pressure sensor failure, phase time- out, doors not properly closed, power failure (less than 10 sec should be ignored), continuous self checking of all the safety devices, low water level etc. All the alarms should be audio- visual
20. Accessories: The sterilizer unit should include Rack with at least 3 levels & suitable size instrument trays should be the part of the supply for every sterilizer.
21. Standards & Norms
The sterilizer must comply the following standards, ISO 9001:2000 (Quality Systems), ISO 13485:2003 (Quality Systems for Medical Devices), ISO 14001 (Environment Management System).
Shuld be US-FDA or European CE with 4Digit notified number or BIS
22. Bidder has to give the demonstration of the entire quoted product as and when required.
23. There should be separate tank for clean water as well as for contaminated water
24. The system should monitor & display digitally all parameters of the cycle of sterilization and there should be completely computerized management for monitoring of all automatic operative functions, and auto-diagnosis of each component to prevent any possible human error.
25. All tubing, fixtures, fuses, spares and reusable and accessories should be supplied along with the equipment. The supplier should also provide the list of spares, fixtures and installation diagrams with the quote
26. Bidder should provide a SS 304 multiple level (minimum 3 levels) storage rack for storing 16" SS drums.
27. The bidder will give rate list of all possible spares, accessories & consumables if any, as part of financial bid. If price of any spare is not mentioned & is required for repair in life time of equipment/instrument, then the firm will be obliged to give it free throughout life cycle of the equipment.

DENTAL INTRAORAL X-Ray Unit
Long cone dental X ray unit with 60KV multipulse (DC) technology (accuracy of ± 2 KvP) 7 mA unit with focal point less than 8 mm
Should have pre heating grid (less than 280msec pre heating time)
Exposure time setting between 0.01- 3.2 seconds (Timer accuracy ± 10%)
Compatible with digital imaging
Radiation leakage not more than 0.25 Mg/hr from focal spot total filtration wq. To 2 nm Aluminium
Triple section Double pantographic arm vibration- damped support arm for smooth movement
Digital display timer with pre-set timers for all teeth
Should have panel with clearly recognizable tooth icons and digital display for exposure etc.
Sholud be US-FDA of European CE with4 digit notified number or BIS
Should be AERB Type Approved
The unit may be supplied with four wheel dual pantographic base and automatic film processing system.
X-ray unit should be supplied with 2 lead aprons and 1 thyroid collar.
The bidder will give rate list of all possible spares, accessories & consumables if any, as part of financial bid. If price of any spare is not mentioned & is required for repair in life time of equipment/instrument, then the firm will be obliged to give it free throughout life cycle of the equipment.

Dental Digital radiography System with Radiography Unit
1. Description of Function
a. RVG is used for digital dental x-rays which can be instantly viewed and evaluated with minimal radiation exposure
2. Operational Requirements
a. High resolution RVG based on CCD/CMOS technology
3. Technical Specifications
Sensor: Should be supplied with 2 sensors (for Paediatric and Adult)
a. Min. 90% reduction in patient radiation as compared to analogue X-ray film
b. Thickness of the sensor should be less than or equal to 5 mm
c. Spatial resolution approx. 25 line pairs/mm
d. Dynamic range (accurate measurement of bone density), should be more than or equal to 14 bit mage acquisition
Computer and Printer:
It should be supplied with Intel quad core desktop with original windows software, 4 GB RAM, 1TB hard disk, 20 inch TFT monitor, DVD-RW and suitable laserjet printer and servo UPS (1 KVA) (Input 160-260 V and output 220-240 V and 50 Hz).
Intra oral X-ray:
a. Be based on DC current, and high frequency X Ray generator, b. Tube voltage, selection: 60-65-70 kvp, c. Tube current, 6 ma/ 8 ma, d. Focal spot 0.8 x 0.8 mm, e. Total filtration > 2 mm Al, f. Minimum range of exposure time range – 0.02 to 3.2 secs, g. Manufactured with International Safety standards for radiation leakage, h. Electronic selection of exposure time/radiation according to tooth number. i. It should be possible to select exposure time manually j. Option for wall mount/ mobile stand. k. Should have remote hand held trigger button l. The timer should be pre-programmed to automatically calculate settings according to the age, gender, jaw and tooth.
m. Should have positioning devices
i. Bitewing
ii. Periapical
iii. Endodontic
Should have at least 1,00,000 numbers of disposable plastic sheaths for the placement of sensors in the patient's mouth
4. System Configuration Accessories, spares and consumables
a. X-ray unit should be supplied with 2 lead aprons and 1 thyroid collar.
b. The bidder has to provide two sensors as part of this bid i. One adult size with minimum active area of 800mm sq ii. One pediatric size with minimum active area of 600mm sq. c. The Printer should be provided with additional ink supply for 1000 prints.
5. Power Supply
a. Power input to be 220-240VAC, 50Hz fitted with Indian plug
b. Servo Voltage stabilizer of appropriate ratings meeting ISI Specifications. (Input 160-260 V and output 220-240 V and 50 Hz)
6. Standards, Safety and Training

a. Deleted
b. Should be AERB Type Approved
c. Manufacturer/ Supplier should have ISO certification for quality standards.
d. Electrical safety for dental x-ray unit conforms to standards for electrical safety IEC-60601 / IS-13450
7. Documentation
a. User/Technical/Maintenance manuals to be supplied in English.
b. List of important spare parts and accessories with their part number and costing
c. 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.
8. Should be supplied with compatible software which has full mouth acquisition ability and should be loaded on minimum 2 computers (multi-user license).
9. Should be supplied with 2 customized tables and 2 height adjustable chairs with back and hand support.
10. The bidder will give rate list of all possible spares, accessories & consumables if any, as part of financial bid. If price of any spare is not mentioned & is required for repair in life time of equipment/instrument, then the firm will be obliged to give it free throughout life cycle of the equipment.

Ultrasonic cleaner
1. Ultrasonic cleaners should produce high frequency and high intensity sound waves that removes dirt and debris from instruments.
2. Should be timer controlled ULTRASONIC CLEANER. Automatic initializing and easy to set three durations by touch buttons.
3. Should have a high quality deep drawn stainless steel vessel to avoid rusting and should be housed in high grade elegant fiberglass casing.
4. Mesh basket should be made of stainless steel to place instruments for cleaning.
5. Tank capacity should be a minimum of 10 liters
6. Should have multiple timer settings
7. Noise level should not exceed 65 dB
8. One accurate self measuring bottle of each solution: Super concentrate general purpose cleaner, Enzymatic Solution, Germicidal Cleaner (effective to kill HIV virus), Cement remover solution. All the necessary solutions (Additives and Detergents) should be provided - 5 liters each
9. Input voltage - 230 V. AC + 10% 50Hz
10. Should be US-FDA or European CE with 4 digit notified body number or BIS

SN	Electro Surgical Unit (ESU)		
a	Microprocessor/microcontroller controlled		
b	Should provide monopolar output for cut, coagulation (fulguration & spray) & blend		
c	Should have bipolar cut and coagulation in multiple levels with automatic bipolar coagulation.		
d	Activation by foot switch and hand switch		
e	Activation of bipolar by foot switch and automatic start/stop system		
f	Auto diagnosis on switching on and during working to continuously monitor all parameters		
g	Automatic stoppage of output in case of malfunction with acoustic and visual signal with display of error code.		
h.	Output powers adjustable automatically or manually from the control panel.		
i	System for neutral plate safety by continuous monitoring of contact quality and connection		
j	System for monitoring and control of leakage current		
k	Leakage current on the patient should be less than 10 micro Amp		
l	The maximum power of different type outputs should be as:- Monopolar Cutting Max - 300W- 400W Bipolar Cutting 90 W or more Bipolar Coagulation 90 W or more Spray Coagulation – Max 120 W at 300 Ohms		
m	All the Accessories should be mentioned in BOQ and rate of each accessories should be quoted seperately which should be valid for the entire warranty period. The unit should be supplied with all standard accessories such as – Reusable push button Handpiece – 2 nos /Disposable - 200 nos, Electrode set of 10 Nos. each (Pin point, flat tip-short, flat tip- long blade), Explosion protective double pedal foot switch – 1 no, Reusable Silicon earth pad – 2/Disposable - 200 nos, bipolar forcep with cord straight & angled (18-19.5cm & 19-22.5cm) - 2 nos each. Electrode stand for 8 dental elctrodes - 1 no Needle electrode 0.2 mm, straight - 1 no Needle electrode, 45° angled - 1 no Wire loop electrode, 05 mm - 1 no Wire loop electrode, rhombic , 8x5 mm - 1 no Wire loop electrode, elongated, 7.0x1.5 mm shaft 45° angled - 1 no Needle electrode for caogulation, 0.6 mm, 45° angled - 1 no Ball electrode , 45 angled , 3.0 mm - 1 no All accessories should be of same make of Main Equipment		

n	Should be US-FDA or European CE with 4Digit notified body number or BIS It should have IEC 60601-1 certificate		
SN	BOQ	Qty	UOM
1	System as specified	1	Nos
2	Reusable push button Handpiece	2	Nos
	OR Disposable push button Handpiece	200	Nos
3	Electrode set (Pin point, flat tip-short, flat tip- long blade)	10	Nos each
4	Explosion protective double pedal foot switch	1	Nos
5	Reusable Siliconearth pad	2	Nos
	OR Disposable Siliconearth pad	200	Nos
6	Bipolar forcep with cord straight & angled (18-19.5cm & 19-22.5cm)	2	Nos each
7	Electrode stand for 8 dental elctrodes	1	No
8	Needle electrode 0.2 mm, straight	1	No
9	Needle electrode, 45° angled	1	No
10	Wire loop electrode, 05 mm	1	No
11	Wire loop electrode, rhombic , 8x5 mm	1	No
12	Wire loop electrode, elongated, 7.0x1.5 mm shaft 45° angled	1	No
13	Needle electrode for caogulation, 0.6 mm, 45° angled	1	No
14	Ball electrode , 45 angled , 3.0 mm	1	No

Physiodispenser With Reduction gear Handpiece
1. Should be US-FDA or European CE with 4 digit notified body number or BIS
2. Powerful motor with 5.5 Ncm torque
3. Wide speed range: 300 up to 40,000 rpm at the motor
4. Precise torque limitation: 5 to 70 Ncm
5. Automatic thread cutter function
6. Motor with cable, thermo washer disinfectable and sterilizable, Autoclavable
7. Fiber Optic Hand Piece (02)
i. Should have powerful gearings
ii. Should offer Maximum torque (Approx 70 Ncm) necessary for all drilling and shaping applications and thus ensures precise work.
iii. Should be a reduction gear of 20:1
iv. Internal or External Spray
8. Important spare parts and accessories with their part number should be provided.
9. Should include 500 disposable irrigation system
10. Bidder has to give the demonstration of the entire quoted product as and when required.
11. Should have a foot control, which controls both forward and backward rotations and irrigation ON/OF
12. Should include Cleaning & Lubricating spray atleast 5 nos.
13. All the accessories for basic functions should be provided
14. Should include suitable storage solutions and autoclavable cassettes for the hand piece

Dental extraction Instruments
1. Should be US-FDA or European CE with 4 digit notified body number or BIS
2. Forceps should have precise, anatomically designed beaks for a sure, effective grip.
3. Full set of forceps for extractions of all the teeth which should include all these forceps
i. Upper Anterior, Premolar and Roots Forceps 10 Each
ii. Upper Molar (Rt & Lt) and Roots Forceps 10 Each
iii. Upper bayonet and third molar forceps 10 Each
iv. Lower Anterior, Premolar and Roots Forceps 10 each
v. Lower Molar and Roots Forceps 10 each
vi. Upper (Rt & Lt) and Lower Cow horn type Forceps 10 each
vii. Lower third Molar Forceps 10
viii. Child pattern Forceps (Pediatric) 3 sets
4. Full set of Elevators which should include
i. Apex Elevators 5 Sets
ii. Luxators 5
iii. Coupland"s Elevator 5
iv. Straight Elevator 5
v. Cryer"s Elevator (Left and right) 5 pairs
vi. War Wick James Pattern Elevator (Straight, Left and right) 5 each
vii. Root Tip Elevator 5
viii. London Hospital pattern 5
5. Bidder has to give the demonstration of the entire quoted product as and when required.
6. Bidder has to quote all the items as a set.

Craniomaxillofacial Trauma Instruments
The entire instrument every single of them should abide to the below mentioned norms.
1. Should be European CE with 4 digit notified body no. or US FDA or BIS
2. The instruments must be manufactured by an ISO certified company.
3. All the instruments should be quoted along with autoclavable containers which meets international standards.
4. The instruments should remain sterile in the container and the container should be capable of being brought into the operation room without any essential packaging.
5. The Plating System should at least comprise of the below mentioned instruments.
6. Bidder has to quote all the items as a set.
7. Bidder has to give the demonstration of the entire quoted product as and when required.
INSTRUMENTS:
01. Universal screw drivers with separate shaft/ blade and handle holding mechanism compatible with 1.0 to 1.2mm, 1.5 to 1.7mm, 2.0mm, 2.3 to 2.4mm and reconstruction. The shaft blades should be able to be used with trans buccal cannula - 2 each
02. Bending pliers (Flat Nose and Aderer modified) for 1.5 to 1.7mm and 2.0 mm plates - 1 Set
03. Bending irons or heavy plate benders, right and left for 2.3 to 2.4mm reconstruction plates - 1 Set
04. Bending pliers for Reconstruction plates 2.3 to 2.4 and 2.7mm - 1
05. Wire Cutter - 1
06. Cutting Pliers for plates 1.5 to 1.7mm and 2mm plates - 1
07. Plate cutters for 2.3 to 2.4 plates - 1
08. Plate and Bone holding plier/forceps for reconstruction plate - 1
09. Trans buccal set containing, Trocar Handle, Cannula, Drill Guide (Long and Short), U - Shaped Cheek Retractor 1 Set
10. Depth Gauge - 1
11. Plate holding forceps - 1
12. Threaded Drill Sleeves Short and Long - 1 each
13. Orbital Retractors Left and right (with depth markings) - 1 Set
14. Instrument Tray for trauma Sets - 1
15. Instrument Tray for Reconstruction set - 1
16. Module for trauma plates and Screws 1.5/1.7mm - 1
17. Module for trauma plates and Screws 2mm - 1
18. Module for Reconstruction plates and Screws - 1
19. Sterilizing container for above plating modules - 1 Set
20. The Set and instrument should have quality certification

HAND PIECE CLEANING AND OILING SYSTEM
1. Should be European CE with 4 digit notified body no. or US FDA or BIS
2. The instruments must be manufactured by an ISO certified company.
3. To automatically and correctly clean and lubricate all high speed hand pieces, low speed hand pieces and air motors before autoclaving.
4. The system should have pneumatic operation and provide following functions
a. Automatic Cleaning and lubrication of internal components with service oil.
b. Automatic cleaning of the spray water and spray channels with cleaning fluid.
c. flushing through with compressed air
5. Fast cycle time less than 2 minutes
6. Separate containers for lubricating oil
7. Operating compressed air pressure must be between 4 bars and above
8. Must have indicators for lubricating oil level.
9. Should have minimum of 3-ports to maintain all hand pieces brands.
10. All the lubricating liquids necessary for the function should be provided – 5lts each. The cost of the lubricant should be quoted separately

FIBER OPTIC LIGHT SOURCE:
1. Should provide cool, shadow less, deep cavity lighting.
2. Flexible or malleable, it may be attached to most retractors or instruments,
3. Once attached to the instrument, its thin, low-profile takes minimal space
4. Once attached to the instrument, its thin, low-profile takes minimal space
5. Xenon light source of 300 Watts
6. Should be able to produce colour temperature of 6000 k
7. Should have continuous manual adjustment of light output
8. One spare xenon lamp 300 watts.
9. Fibre Optic Light Cable-2
10. Fibre Optic light cable, length: 250cm.- 01No.
11. Should be European CE with 4 digit notified body no. or US FDA or BIS
12. Lamp life should be 500 hrs or more

SN	Orthopantomogram (OPG) Unit
1	Should be European CE with 4 digit notified body no. or US FDA or BIS
2	The equipment should be able to capture panoramic imaging panoramic x-rays with lateral cephalograms and TMJ views.
3	Should cater to all types of patients including adult, pediatrics, standing, sitting and wheel chair patients.
4	Should be based on DC current.
5	Focal spot is 0.4/0.5mm
6	Inherent filtration: 2.5mm Al equivalent.
7	Tube voltage min range 60kV to 80kV.
8	Tube current min range 5 mA to 10 mA.
9	Exposure time - Panoramic - 10-15 secs.
10	Pixel size - 96-99um
11	Image resolution - 5-9 lp/mm.
12	Standard Intel quad core desktop with original windows software, 4 GB RAM, 1TB hard disk, 20 inch TFT monitor, DVD-RW and suitable film printer. The Printer should be provided with additional ink supply for 5000 prints.
13	X-ray unit should be supplied with lead apron, thyroid collar and gonadal sheath.
14	Should be supplied with 2 customized tables and 2 height adjustable chairs with back and hand support.

SN	Instrument Washer, Disinfector
1	It should be a bench top, single door equipment.
2	Should have washing and disinfecting temperatures fully adjustable upto 93°C.
3	Fresh water intake between each cycles.
4	Three level water filtering system.
5	Heavy duty self-cleaning water circulation pump.
6	Should have powerful integrated filtered air drying system.
7	LED display with 3 adjustable washing programs.
8	RS232 printer connection for documenting washing phases.
9	Washing chamber, washing arms and filter to be made with high quality corrosion proof 316SS.
10	Atleast 60 litres chamber volume.
11	Atleast 50 litres basket volume.
12	All the necessary solutions (Additives and Detergents) should be provided - 5 liters each
13	US FDA or European CE with 4 digit notified body no. certified or BIS

General Maxillofacial Surgical Instruments

The entire instrument every single of them should abide to the below mentioned norms.

1. Enclose the certificate of the quality of the material used in the making of the instrument.
2. Should be European CE with 4 digit notified body no. or US - FDA certified or BIS
3. The instruments must be manufactured by an ISO certified company.
4. Bidder has to quote all the items as a set.
5. Bidder has to give the demonstration of the entire quoted product as and when required.
6. All the instruments should be quoted along with autoclavable containers which meets international standards.
7. The instruments should remain sterile in the container and the container should be capable of being brought into the operation room without any essential packaging.

SN	Instrument	Specification	Quantity
01.	Scalpel Handles	Round handle, serrated, for secure grip, specially designed for maxillofacial surgery. Used for no 15 and No 11 no BP Blades	10
02.	Micro Dissection Needles	20 mm length, straight,	5 each
		30 mm length, straight,	
		40 mm length, straight,	
		76mm Length Straight	
03.	Mouth Gags	Dingmans Mouth Gag with all attachments	1 set each
		- Histers	
		- Fergusons	
04.	Tongue Depressors	Stainless steel Flat (Adult and Pedeatric)	2 each
05.	Plastic Cheek retractors	Plastic Cheek retractors (Autoclavable) Adult and Pediatric both in self retaining and single sided types. Transparent/clear for better appriciation of the underlying tissues	2 sets each
06.	Mouth Props	Rubber coated with metal frame. Set of multiple sizes from child size to large adult size.	4 sets
07.	Scissors	Goldman-Fox Straight 5"	4
		Metzenbaum Delicate Curved/Blunt 6"	5
		Mayo Curved/Blunt	4
		Bandage Scissors	4
		Suture Cutting	6
08.	Tissue Forceps	Preferable to be having Tungsten Carbide inserts	3 each

		1. Adson Micro fine 12 cm, 15 cm	
		2. Adson Regular fine 12 cm, 15 cm	
		· Both Toothed and Non toothed	
09.	Suction Tubes	1. Mastoid Suction tip, working length 10 cm, 2mm diameter	2 each
		2. Frazier Suction tip size 4 , 6	
10.	Soft Tissue Retractors	Desmarres Eyelid retractor 15 cm, 15 mm wide	2 each
		Obwegeser Soft tissue retractor curved up, concave blades 22 cm, 10 x 42mm	2
		Senn Miller retractor	6
		Small Langenback retractor, 20mm x 6mm	10
		Medium Langenback retractor	6
11.	Retractors	1. Obwegeser Chin retractor malleable 15 cm	1 set each
		2. Mandibular body retractor 13 mm, 17 cm	1 set each
		3. Obwegeser Mandibular channel retractor 17.5 cm, 10 mm both with fiber optic cable fitting (2 Nos each)	2 sets each
		4. Obwegeser Ramus retractor 22 cm, 12 - 22 x 70 mm	1 set each
		5. Sigmoid notch retractor with fiber optic cable fitting Left & right	1 set each
		6. Intra Oral Vertical Osteotomy (I.O.V.O.) retractor 23 cm with fiber optic cable fitting	1 set each
12.	Maxilla Mobilizers	1. Tessier Maxilla mobilizer 9 mm, 15 cm. Left and right	1 set each
13.	Nasal Retractors	1. Tessier Nasal specula 14 cm, length of blades 40 mm	1 set each
		2. Aufricht Nasal retractor 9 x 44 mm 16 cm	
		3. Sailer Nasal bridge retractor 15 - 20 x 50 mm 23.5 cm	
		4. Kilner Alar Retractor	
		5. Killian Nasal Speculum 50mm, 90 mm	
14.	Cheek retractors	1. Cheek retractor 21 x 23 mm / 26 x 35 mm 18 cm	2 each
		2. Malleable Retractors 16 / 22 mm, 22 cms	
15.	Protectors	1. Sailer Nerve protector curved downwards 16.5 cm	2 each
		2. Babbush Sinus flap retractors 22 mm wide 12 cm	
16.	Hooks	1. Skin hook 19 cm	6
		2. Bone hook, 18.5 cm	2

17.	Elevators	1. Obwegeser Multi Purpose Periosteal elevator with beveled edge, sharp, 18 cms 9mm & 11 mm	2 each
		2. Obwegeser Multi Purpose Periosteal elevator with flat end, sharp, 18 cms, 9mm & 11mm	
		3. Obwegeser-Freer 6 mm blunt / 6 mm, sharp 21.5 cm	
		4. Krenkel Orbital periosteal elevator 3.5 / 7 mm 20 cm	
		5. Tessier Heavy periosteal elevator 20 cm, 16 mm and 12 mm	
		6. Ramus stripper sharp 17.5cm, 7mm	
		7. Obwegeser sharp stripper, 7mm, 20.5 cm to engage the posterior and inferior borders of the mandible	
		8. Pterygo-massetric sling stripper Rt and Lt Blunt, 23 cms, 9mm.	
		9. Malar elevator 8 mm 23.5 cm small handle, blunt	
		10. Dingmann Zygoma elevator blunt 22 cm	
		11. Rowe Zygoma elevator blunt 25.5 cm	
		12. Palate Dissector	
		13. J Stripper	
18.	Bone Rasps	1. Aufricht Rasp curved, downward stroke 20 cm	2 each
		2. Aufricht Rasp curved, upward stroke 20 cm	
		3. Williger Raspatory	
19.	Measuring Instruments	1. Castroviejo straight Measuring range up to 40 mm 18 cm	2 each
20.	Osteotomes	1. Curved 4mm, 6 mm, 8mm, 10mm, 12mm, 13.5cm	1 each
		2. Straight 4mm, 6mm, 8mm, , 10mm, 12mm, 13.5cm	1 each
		3. Bone Gouge 5 mm 22 cm	2 each
		4. Cottle osteotome 18cm 4mm & 7mm	2 each
		5. Tessier Nasal osteotome 5 mm 18.5 cm	2 each
		6. Obwegeser Nasal septum osteotome 4 mm, 6mm and 8mm. 18.5 cm	2 each
		7. Lateral nasal wall osteotome, left, 4 mm, 16.5 cm	2 each
		8. Lateral nasal wall osteotome, Right, 4 mm, 16.5 cm/17cm	2 each

		9. Tessier Retromaxillary chisel, curved 6 mm, 16.5 cm	2 each
		10. Obwegeser Pterygomaxillary osteotome 8 mm and 11mm	2 each
		12. Bone graft osteotome, small, hexagonal handle, 10 mm straight	1 each
21.	Mallets	1. Mallets with interchangeable nylon faces. 340g 19cm 26mm	2
22.	Bone Holding Forceps	1. Paulus Chin segment forceps 19 cm	1 each
		2. Sailer Maxillary bone graft holder 17 cm	
		3. Dingmann, modif. Heavy pattern 18 cm	
23.	Forceps	1. Rowe Maxillary Disimpaction forceps 23 cms left and right (Pair)	1 set each
		2. Connecting clamp for pair of Maxillary Disimpaction forceps	
		3. Hyton William Forceps Forward and Downward Traction	
		4. Tessier Bone spreader 18 cm	
		5. Maxillary palatal bone spreader 17 cm	
		6. Posnick Pterygomaxillary suture bone spreader 20.5 cm	
		7. Tessier Child calvarial cutter 19.5 cm	
		8. Tessier Strong bone cutter 21.5 cm	
		9. Obwegeser Ramus Clamps left and right	
		10. Walsam Nasal Forceps	
		11. Asch's Nasal Forceps	
		12. DANDY Forceps, curved sideways, cross serrated jaws 12 cm	
24.	Spreader	1. Smiths Ramus Spreader	2
25.	Atraumatic scalp clamp (Raynee Clips)	Should include the clip applicator along with the container	20
26.	Awls	· Obwegeser Zygomatic arch awl,	1 set each
		· Obwegeser Mandibular awl	
27.	IMF related	· Wire Cutter – Heavy Duty	3 each
		· Wire twisting forceps,	
28.	Self-retaining retractor,	· Blades 13 x 20 mm, left & right	1 Pair
29.	Condyle Retractors	· Dunn-Dautrey Condyle retractor	2 pair
30.	TMJ Instruments	· Salzburg Condylar Repositioning fork 24.5 cm	1 each
		· Salzburg Retractor 24.5 cm	

		· Atraumatic disc clamp 90°, 10cm, & 45°, 12cm	
		· Disc resection scissors 13.5 cm	
		· Reich File, 4.5 mm, flat, curved up, diamond dust surface 15 cm	
		· TMJ Spreader	
		· Eckelt Repositioning Forceps Right & Left	
		· Eckelt TMJ Clamp Left & Right	
31.	Lacrimal Probe	· 00/0	2
32.	Extra-Fine Explorer	Round Handle	5
33.	Bone Curette	· Double ended Lucas Currette	2 each
		· Volkmann Double Curette	
		Microsurgical instruments in suitable storage container	
		1. Bulldog clamp with approximating clamp, size RD-D for use in 2mm to 5mm vessels	2
		2. Bulldog clamp without approximating clamp, size RD-S for use in 2mm to 5mm vessels	2
		3. Clamp applying forceps	2
		4. Vessel Dilators, angulated	1
		5. Microsurgical dissecting scissor	2
		6. Microsurgical Adventia Scissor	1
		7. Microsurgical Needle Holder	2
		Clarification: Bidder may provide this instrument by any third party manufacturer, however it has to comply with the specifications and certifications mentioned earlier.	
		CMC not required for this schedule	

General Instrument Set for Dentistry – Out Patients Departments			
1. Should be European CE with 4 digit notified body no. or US FDA certified or BIS			
2. The instruments must be manufactured by a ISO certified company			
3. Bidder has to quote all the items as a set.			
4. Bidder has to give the demonstration of the entire quoted product as and when required.			
	Product	**Specification**	**Quantity**
1	Mouth mirrors	Mouth mirror, with Anti fog, Mirrors, rust free, slime line	200
2	Probes	Medical Grade Stainless, Autoclavable	200
3	Explorers	Medical Grade Stainless, Autoclavable	200
4	Tweezers	Medical Grade Stainless, Autoclavable	200
5	Instrument trays	Medical Grade Stainless, Autoclavable	4
		Kidney Trays (12x8)	50
		Rectangular Tray with Lid (8x8)	50
6	Cheatel forceps	Medical Grade Stainless, Autoclavable	10
7	Scalpel Handles	Bard Parker style with metric rule(No. 03)	5
8	Scalpel Blade Remover		2
9	Castroviejo Calipers	Straight 40 mm	1
10	Periosteal elevators	1. Molt No 9 2. Howarts 3. Moons Probe	25 (Molt No 9) rest other 3 each
11	Root Tip Ricks	1. Apical 9, 9L and 9R 2.Davis Double-end	2 sets
12	Restorative Filling and carving Instruments Set	Tofelmere	5
		Sectional Matrix kit	5
		Cement Spatula	5
		Cement Carrier	5
		Cement Condenser	5
		Spoon Excavators	10
		Amalgam Carrier, non-clogging operation	2 each
		Glass Slab for mixing	2
13	Composite Filling Instruments	1. Full Set of instruments. Both anterior and Posterior Restoration.	10 kits
		2. Products should include a wide range of spatulas ideally tailored for the purpose.	
		3. Polished, corrosion-resistant Teflon coated tips prevent the adhesion of filling material so the treating professional can place it exactly where it belongs.	
		4. Should not cause corrosion or felting of the filling material	
		5. Should be European CE Approved or BIS	
14	Ruber dam kits		5 adult 2 pedo

15	VITA Shade guide for porcelain and composite	3 D Shade Guide	2
16	Hand Scaling instruments	· Anterior Sickle/Hoe Scaler · Jacquette Scaler anterior and posterior Made of medical grade steel. Instruments Sharpening tool also included	4 sets
17	Periodontal Knives	1. Goldman-Fox 7,8,9 and 11 2. Kirkland Knife 3. Orban Knife 4. Tunnelling Knife #1 and #2	1 set
18	Periodontal Surgical Curettes	1. Set of 7 Gracey Curretes No 1 to 14 (double ended) 2. Universal Currete 2R -2L & 4R – 4L	3 sets
19	Periodontal Chisels	Ochsenbein	1 set
20	Periodontal Files	1. Schluger Curved File 2. Sugarman File Mesial/Distal and Buccal/Lingual	1 set
21	Mean value Articulator	Three Point Articulator	2
22	Dental Impression Trays	Both Perforated and Nonpeforated Impression trays (upper & lower arches) · Should be Autoclavable & reusable · Anatomic shapes with good peripheral support. Rigid with ergonomic handle. · All Sizes Non Perforated	3 sets each
23	Rubber Bowls	Medium Size	10
24	Plaster Spatula	Straight and curved	3 each
25	Wax Spatula	Medical Grade Stainless, Autoclavable	10
26	Wax knife		5
27	Lecreons Carver		10
28	Plaster knife		5
29	Crown Remover	Automated	2
30	Fox Plane		2
31	Denture Polishing kit		2 sets each
32	Austins retractor	i. With out Fiber optic attachment ii. With Fiber Optic attachment	3 2
33	Artery forceps	8 1/2 inches Stainless Steel cuved Halsted type	12

34	Bone file	Cross-Cut file with Curved working end combined with a straight working end Cross-Cut file with Small paddle shaped end is half the size of the larger paddle shaped end	4
35	Bone Rounger	1. End-cutting	4 each
		2. Side-Cutting	
		3. Boehler Double Action	
36	Adson forceps	i. Adson Plain	2 each
		ii. Adson Toothed	
		iii. Adson Micro	
37	Allison forceps	Allison Straight	10
38	Towel Clips	Rachette Design and spring Design	20
39	Sponge holder		2
40	Mallet	Stainless steel with nylon facings should withstand autoclave sterilization	1
41	Bone Chisels	Made of High Quality Surgical Stainless Steel	2 sets
		· Single Bevel, 4mm, 6mm, 8mm	
		· Bi-Bevel 4mm, 6mm, 8mm	
42	Scissors	Goldman-Fox Straight Metzenbaum Curved/Pointed Metzenbaum Delicate Curved/ Blunt Mayo Curved/Blunt Bandage Scissors Suture Cutting Crown & Gold Curved 12 cm	2 each
43	Needle Holders	Mayo- Hegar 6" HMT Thin Jaw 5" Tungsten Plated	4 each
44	Babcocks Forceps		2
45	Punch Biopsy Set		1 set
46	MTA Carrier		2
47	Orthodontic Instruments	Adams plier	3
		Universal plier	3
		Straight Cutter long and short Handle	1 each
		Distal End Cutter	1
		Pin and ligature cutter	1
		Heavy wire cutter	1
		Straight Wire plier (Bird beak) short and long	1 each
		Dellarosa	1
		Bonding Tweezers Curved and Straight	1 each
		Spot Welder	1
		Solder torch	1
		Chair Side Sand blasting unit	1
		Nola Dry field system	4

		Intra Oral Mirror set	2
48	Aspirating Syringes	· Should be made of surgical grade stainless steel. These syringes are indicated for the injection of local anesthetic solution.	5
		· Ergonomic and lightweight	
		· Designed to Reduce hand stress during injection	

Sl. No	Continuous Renal Replacement Therapy (CRRT) Equipment
1	**Description of Function**
1.1	Continuous Renal Replacement Therapy (CRRT) Machine provides at least 24-hour continuous (nonstop) dialysis therapy used to support patients with kidney failure.
2	**Operational Requirements**
2.1	Easy to handle and maintain.
2.2	Microprocessor/microcontroller controlled user interactive menu with operating and malfunction removal instructions on display screen
2.3	Should be user friendly.
3	**Technical Specifications**
3.1	Should have Four pumps, one each for Blood, Dialysate, Replacement fluid and Effluent/filtrate.
3.2	Should be able to perform SCUF, CVVH, CVVHD, CVVHDF, CAVHD, CAVH, CAVHDF
3.3	**Should have touch screen/Touch pad TFT Monitor.**
3.4	Should have blood pump speed of appr. 10-450 ml/min.
3.5	Should have closed blood circuit to prevent air to blood interface.
3.6	Should have short preparation and priming program and should be ready to start treatment within 10-20 minutes.
3.7	Should have arterial pressure range: (-) 250 mmHg +/- 50 mmHg.
3.8	Should have Venous pressure range: (+) 350 mmHg +/- 50 mmHg.
3.9	Should have Pre Filter Pressure: 50mmHg to -500 mmHg
3.10	Should have Effluent Pressure: 350 mmHg+/- 50 mmHg
3.11	Should have Programmable Substitution solution flow rate: 100-8000 mL/Hr
3.12	Should have Dialysate Flow rate: 100-2500 mL/Hr.
3.13	Should have Effluent Flow Rate: 60-2000 mL/Hr
3.14	Should have Integrated heparin pump with flow rate of 0.5 ml-5 mL/Hr. Should have bolus facility range 0.5mL-5mL.
3.15	Should have Capability of changing therapies.
3.16	Should have three weighing scales to control the system with balancing accuracy of less than 1 % of total turnover in
3.17	Should have integrated Fluid/blood warmer for blood/dialysate warming temp range app 33-38 deg C.(+/- 0.5 deg C.)
3.18	Should have Ultrasonic air bubble detector and Blood leak Detector.
3.19	Should have Alarm in case of blood leak, air in line, pressure limit violation, empty dialysate/ replacement bag, full effluent bag and advisory alarms in case of excessive TMP and filter clotting.
3.20	**Should have a 30 min Battery back up for blood pump**
3.21	Should have an RS 232 Port for Data transfer and interface.
4	**System Configuration Accessories, spares and consumables**
4.1	System as specified
4.2	**The system should be compatible with Heamodialysis/ Haemofiltartion tubings**
4.3	Should be supplied with 10 Nos. of essential accessories such as blood line set, haemofilters and ultra filtrate bags at no extra cost.
4.4	All media and consumables for setting up and standardization should be provided free of cost in addition to the items supplied in 4.3.
5	**Standards**
5.1	Should have the ISO certification and the copy of the same should be enclosed along with the technical bid.
5.2	The unit should have BIS or US FDA or European CE with four digit notified body number certificate [illegible]

SN	BOQ	Qty	UOM
1	CRRT machine as specified	1	Nos
2	Blood line set	10	Nos
3	Haemofilters	10	Nos
4	Ultra filtrate bags	10	Nos

S.N	PD Cycler
1	**Description of Function**
1.1	Automatic peritoneal dialysis (PD) Cycler are intended to treat renal failure, partially replacing kidney function by removing metabolic wastes through selective diffusion across the peritoneum.
2	**Operational Requirements**
2.1	Should be portable and weight less than 15kg
3	**Technical Specifications**
3.1	Should have built in heater for warming the Fill solution at body temperature(35-37 deg C)
3.2	Should be able to measure fluid flow and volume.
3.3	Disposable set should have cassette/equivalent and tubing lines pre loaded on an organizer for simplified set up.
3.4	Machine should calculate automatically the number of cycles and Dwell time per cycle once the patient enters the total therapy time,total volume and fill volume.
3.5	Should perform a self check before starting the treatment.
3.6	Should have built in Nurses Menu and Service Menu.
3.7	Should have a built in Therapy Log and Alarm Log for simplified troubleshooting.
3.8	In case of power failure the machine should have a battery back up upto 2 hours for remembering the status of the therapy and it resumes from the cycle from where it was left.
3.9	Therapy Parameters Limits and Increments:
	1.Therapy volume: 200-65,000 ml increments of 50 ml from 200 to 2000 ml,100 ml from 2,000 to 5000 ml and 1000 ml from 5,000 to 65,000 ml
	2.Therapy Time: 10 min to 48 hours in increments of 10 min.
	3. Fill Volume: 100-3,000 ml in increments of 10 ml from 100 to 500 ml , 50 ml from 500-1,000 ml and 100 ml from 1,000 to 3,000 ml.
	4.Last fill volume: 0 ml , 100 ml to 3,000 ml in increments of 10 ml from 100 to 500 ml , 50 ml from 500-1,000 ml and 100 ml from 1,000 to 3,000 ml.
3. 10	Should be able to perform CCPD, hi Dose CCPD, tidal and hi dose tidal.

SN	BOQ	Qty	UOM
1	System as specified	1	Nos

Sl. No	Hemodialysis Machine with SLED facility
1	Bicarbonate dialysis with dry bicarbonate facility.
2	Variable Bicarbonate, sodium and ultra-filtration profiling.
3	High flux dialysis should be possible.
4	Programmable auto start option and auto self-testing completely software driven.
5	Heparin pump flow rate from 0.5ml to 10 ml per hour. It should work with syringe of different volumes.
6	Automatic recalibration whenever machine is switched on.
7	Blood pump rate from 50 to 600 ml/min.
8	Dialysate fluid flow rate 100 to 700 ml/min.
9	Volumetric ultra-filtration for every accurate UF to the accuracy of plus minus 1%. Volume controlled via Balance Chamber with separate UF pump.
10	Disinfection – chemical and thermal, automatic with both short & long disinfection program with Day-Night, Weekly schedules.
11	Should have longer stand by time to save the acid concentrate and the R/O water.
12	Should have large colour TFT touch screen/tochpad monitor and display.
13	Should be able to monitor pulse rate and Blood Pressure.
14	Sequential Ultra-filtration & Heamodialysis should be possible.
15	Built-in device for measurement and monitor of urea clearance (K) dialysis dose (Kt/V), and automatically during treatment.
16	The measurement of urea clearance (K), dialysis dose (kt/V and shall be preformed in non-invasive mode without additional disposable required during treatment.
17	Audio-Visual alarms. It should store alarms in the machine during dialysis so that they could be retrieved later on.
18	There should be conductivity, temperature blood leak, air leak, trans membrane pressure alarm, end of dis-infection alarm, along with bypass facility and blood pump stop alarm.
19	Pressure monitor – arterial, venous.
20	All important data be pre-settled so that machine can be used without feeding data every time
21	Integrated Patient Data Management System should be availabe
22	The unit should have BIS or US FDA or European CE with four digit notified body number certificate or BIS

SN	BOQ	Qty	UOM
1	Hemodialysis Machine with SLED facility as specified	1	Nos
2	Blood line set	10	Nos

Sl. No	RO plant 1500 iph
	Supply, erection, commission, testing, operation and maintenance of water treatment plant suitable for supplying water to hemodialysis machines with necessary supportive arrangement like pre-treatment, RO Unit, Post treatment unit, electrical panel, RO panel, measuring devices etc for the proper functioning of the plant in the hemodialysis unit with the quality of treated water as per AAMI standard.
A	**General**
1	Water testing (Chemical and bacterial) should be included in maintenance and should be done every six months.
2	All piping (of PEX material) and plumbing work related to unit as per design of unit should be provided by supplier at its cost.
3	should be of 1500 liters capacity or more.
4	The unit should have BIS or US FDA or European CE with four digit notified body number certificate or ISO 13485 and certificate to be submitted. or BIS
B	**Pre-treatment**
1	Pre-treatment should have a Mesh Filter of 50 microns.
2	There should be an automatically controlled Solenoid Valve to fill the Raw Water Tank.
3	Raw Water Tank having food grade quality for at least 1000 liters capacity to store Raw Water.
4	Sand filter with sand particles for different grade should have fully automatic backwash & rinse cycles every day.
5	**Particle filter, cartridge filter type of 10 -50 microns.**
6	Should have build in softener with fully automated digital display, brine fill and clean cycles. It should also have a brine tank incorporated in the system.
7	Carbon filter with fine carbon granules should have fully automatic backwash cycle & rinse every day.
8	**Should have fine filter, cartridge type of 1 -5 micron.**
C	**RO Unit**
1	**Should be microprocessor based double stage RO System which should produce water as per AAMI Standard.**
2	Should supply 1500 liter/hour of permeate.
3	Should have dynamic Water-Saving Technology and rinsing system available.
4	In build capabilities to show on display for Permeate (Supply in liter/min, Temperature) & for Raw Water (Consumption in Liters/Min & Pressure).
5	Should have programmable fully automated rinse cycle for membranes wash.
D	**Post Treatment System**
1	**Should have food grade material and conical shape Permeate Storage Tank of at least 1000 Liters capacity with level control system.**
2	Should have sub-micron bacterial filter of 0.2 microns manually back washable.
3	Should have Flow indicator of Wall Mounting type showing Liters/Min Supply and to build back pressure.
4	One addition booster pump should be supplied with the system.
5	Should have Stainless Steel, 316 grade Push-Pull type Stainless Steel Connections for Water outlet at Dialysis machine connecting points for dialysis machines.
	Added Para:
1	**OEM has to provide Suitable Air conditioning (AC) System if it is required for the smooth functioning of the RO system during warranty period.**
2	**Supplier has to install feed water pipe for heamodialysis machine from RO room to heamodialysis room. Bidder has to quote unit meter rate including supply, installation, fixing. 100 meter length will be consider for ranking purpose, however it will be paid at actuals.**
3	**Institute has to provide raw water supply and drainage facility till RO room.**
4	**Bidder has to quote unit meter rate of drainage pipe (PVC 4" dia) including supply, installation, fixing. (optional)**

Sl. No	Dialyzer Reprocessing System
1	Fully Automatic operation.
2	Ability to clean both high flux and low flux dialyzers and haemodiafilters.
3	Facility to test and display residual volume and membrane integrity.
4	Both audible and visual alarms.
5	**Facility to check fiber bundle leakage at -250mm Hg.**
6	Facility to disinfect dialyzer membrane.
7	Should be able to use eligible and authorized disinfectant.
8	Inbuilt dedicated software and facility to upgrade software.
9	Ability to store, display and print/ dialyzer and Patient History data.
10	Should have bar code printer for label printing an scanner for bar code scanning.
11	To test blood port connection and dialyzer header caps for proper fittings.
12	To provide disinfectant consumption and remaining quantity to display.
13	Provision to pressure gauge 0-100 PSI.
14	Provision of disinfectant uptake tube assembly, drain out let pipe and drip tray.
15	To use disinfectant cold reprocessing and sanitization.
16	Separate cycle for water sample collection.
17	RO water requirement should be 14-18 liters per dialyzer.
18	No pre dilution of disinfectant and to use negative pressure test on fiber.
19	The unit should have BIS or US FDA or European CE with four digit notified body number certificate or ISO 13485 and certificate to be submitted.
20	Price of the disinfectant should be quoted separately and it will be valid for the warranty period. Price of 100 Ltr of disinfectant will be considered for price ranking
SN	BOQ
1	Dialyzer Reprocessing System as specified -1 no
2	Disinfectant- 100 Ltr for ranking only

Emergency Drug Cart

	Advanced Emergency Cart-	
1	Emergency cart constructed of SS/aluminum and high density resin.	
2	Defibrillator shelf with monitor straps, glove dispenser, sharp container, oxygen cylinder cradle, IV pole, cardiac chest board, writing surface.	
3	Clear plastic/ABS plastic overlay for top cap with minimum 10 colour coded dockets.	
4	Push handle built in to the end panel for smooth and stable movement.	
5	Pullout writing surface top.	
6	Cart should be light, sturdy and scratch resistant.	
7	All drawers should be lockable individually.	
8	Should have minimum of five drawers with adjustable/fixed divides.	
9	Should have side bin discarding syringes and gloves.	
10	Lockable Castor should not be less than 5" diameter to facilitate quite and easy manuvrebility, dust-prevention, flexible transportation	
11	Size should be :-Height: 100 to 110 cm	
	- Base should not be less than 60 to 70 cm	
	- Width and depth should be good enough to accommodate the necessary items.	
	BOQ	
1	Drug Cart	1 No

Ventilator-portable

1	**Description of Function**
1.1	The portable ventilator is used to transport a patient with artificial respiration support or home care of a patient after discharge from a hospital
2	**Operational Requirements**
2.1	The portable ventilator should be light weight (< 13 kg)
2.2	Should be microprocessor controlled, portable, light weight. Should operate with main electric supply as well as with battery. Should be able to work both with high pressure O2 (pipeline) and Inbuilt low pressure O2 source, connectors and high-pressure tubing of appropriate length to be supplied
3	**Technical Specifications**
3.1	Should have turbine/ venturi/jet mixing/piston- technology for supplying airoxygen Mixture
3.2	Should have following modes of ventilation: CMV, Assist-contol, SIMV, PSPEEP, NIV
3.3	Audio-visual alarms for
a.	Low supply pressure
b.	High/low airway pressure
c.	Leakage/disconnection
d.	Power failure
e.	Apnea
f.	Low battery
3.4	Should have following settings
a.	TV 50 – 1500ml
b.	PEEP/CPAP- 0-25cm H2O
c	PS- 0-30cm H2O
d	RR up to 40bpm
e	I: E ratio 1:3 to 2:1
f	FIO2 21 – 100%
3.5	Battery backup for minimum 3 - 6 hours.
3.6	Should fix, on rails of transport trolley and on stand with wheels
4	**System Configuration Accessories, spares and consumables**
4.1	Portable Ventilator-01
4.2	Adult Reusable /Autoclavable Silicon Patient Circuit-02
4.3	Paediatric Reusable/Autoclavable Silicone Patient Circuit-01
4.4	Oxygen Hose-01
4.5	Air Hose-01
4.6	Rechargeable Batteries- 01 set
4.7	NIV mask - 01
5	**Environmental factors**

5.1	The unit shall be capable of being stored continuously in ambient temperature of 0 -500 C and relative humidity of 15-90%	
5.2	The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%	
6	**Power Supply**	
6.1	Power input to be 220-240VAC, 50Hz	
7	**Standards, Safety and Training**	
7.1	Product Should have US FDA or European CE with four digit notified body number certificate and certificate to be submitted. or BIS	
7.2	Manufacturer should have ISO certification for quality standards.	
7.3	Product should have Airworthiness RTCA DO-160 D, section 7,8,21 and Vibration standard MIL STD 810F, method 514.5 certifications. (Preferable)	
8	***Documentation***	
8.1	User Manual in English	
8.2	Service manual in English	
8.3	Certificate of calibration and inspection from factory.	
8.4	List of important spare parts and accessories with their part number and costing	
8.5	Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist.	
	BOQ	
1	Portable Ventilator	1 no
2	Adult Reusable /Autoclavable Silicon Patient Circuit	1 no
3	Paediatric Reusable/Autoclavable Silicone Patient Circuit	1 no
4	Disposable Patient circuit (Adult & Paediatric)	10 nos each
5	Oxygen Hose	1 no
6	Air Hose	1 no
7	Rechargeable Batteries	1 no
8	NIV mask	1 no

Ventilator-High End (I.C.U)

1	Should be touch screen.
2	Screen should be minimum of 12" inch or more and integrated single screen.
3	Compressed air / oxygen driven.
4	Should have the following modes.
	a. Volume and Pressure Controlled modes
	b. SIMV (Pressure controlled and volume controlled) with pressure support
	c. Spontaneous modes like CPAP / PEEP
	d. Inverse Ratio ventilation
	e. Advanced/Intelligent mode like Pressure Regulated volume control, Closed loop Adaptive ventilation mode.
	f. Airway Pressure Release ventilation
	g. Non-invasive ventilation.
5	Should have the facility for following settings:
	a. Tidal Volume: Minimum 5ml or less and maximum of 1500 ml or more in Volume control
	b. PEEP upto 30 cmH2O or more
	c. Pressure support upto 35 cmH2O
	d. Flow Pattern: Square, Decelerating
	e. Respiratory Rate upto 80 bpm or more
	f. Inspiratory Plaetau upto 60% of Inspiratory time
	g. SIMV Rate upto 60 cycles/min
	h. FIO2: 21% - 100%
	i. Inspiratory flow and pressure Trigger Sensitivity
	j. Manual Cycle, Inspiratory Pause, Expiratory Pause .
6	Should be able to monitor and measure the following parameters
	a. Tidal Volume
	b. Plaetau
	c. Mean Airway Pressure
	d. Peak Airway Pressure
	e. Intrinsic PEEP
	f. RSBI (Rapid Shallow Breathing Index)
	g. Resistance and Compliance
7	In-line Nebuliser with capability of producing < 3 micron drug particle.
8	Should have the facility to find (Lower inflection point) and UIP (Upper Inflection Point)
9	Compiled trend analysis at least for 24 hours for all measured parameters.
10	Should have the facility to record multiple loops for comparison
11	Should have facility to measure:
	a. Pressure / Volume loops
	b. Flow/ volume loops
12	Should display minimum 2 curves/graphs /loops simultaneously on the screen
	a. Should have audio-visual alarms for the following parameters:
	b. Peak Inspiratory pressure – High & Low
	c. FiO2 – high & low
	d. Respiratory rate – high & low
	e. Tidal volume – high & low
	f. Minute volume – high & low
	g. Apnea

	h. Gas supply failure
13	Should have battery back up atleast for 1 hour.
14	Event log: 1000 Alarm History.
16	Spares should be available for 10 years.
17	Should be supplied with 2 nos Reusable Silicon adult the 1 no Pediatrics tubing's and imported servo controlled humidifier.
18	Should have US FDA or European CE with four digit notified body number certificate and certificate to be submitted. or BIS
19	Ventilator should have external compressor, from the same manufacturer **(Price to be quoted separately).**
20	Expiratory valve/cassette should be autoclavable and supply 2 nos with each unit.
21	Oxygen sensor should be paramagnetic/ultrasonic/Galvanic and covered under warranty & CMC and will be supplied free of cost during warranty and CMC period.
22	Should provide ET-tube leak compensation .
23	Compressor should be US-FDA or European CE approved. or BIS
24	Compressor, hinged arm and ventilator trolley should be from the same manufacturer.

Sl.No	BOQ	Qty
1	Ventilator-High End (I.C.U) as per specification	1 No
2	Nebulizer	1 No
3	Imported Humidifier	1 No
4	Mobile Trolley	1 No
5	Expiratory valve/cassette	2 nos
6	Reusable Silicon adult patient circuit with filter	2 nos
7	Reusable Silicon pediatric patient circuit with filter	1 No
8	External compressor	1 No
9	Hinged Arm	1 No

DVT Pump

1	Provides graduated, sequential compression and rapid impulse inflation to calf, foot & thigh.	
2	Pulse frequency 1 per minute range.	
3	Choice of three cuffs of universal size: Calf, thigh , foot **(Price should be quoted seperately and 50 nos each will be taken for ranking purpose)**	
4	No DVT sleeves should be required below cuffs.	
5	Should deliver constant pre-set pressure ranges – Distal 52 pulse mince 10 % mmHg	
6	Pro 45 pulse mince 10 % mmHg	
7	Alarm present	
8	Visual indicators for pressures and time present	
9	Portable, can be mounted on the bed.	
10	I.S.O. certificate	
11	Battery backup at least 4 hours.	
12	US-FDA/ European CE iwjth 4 digit notified body number or BIS	
	BOQ	
1	DVT Pump AS PER Specification	1 Nos
2	Cuffs of universal size: Calf, thigh , foot	6 Each

Patient Warming system

I	Technical Specification
1	Should have the facility for Forced Air warming.
2	Should have Two Air flow setting for the air flow 48cfm / 49.9cfm/32cfm for adult and infant patient in same machine.
3	Should have single Hose for all type/Size of Blankets.
4	Should have at-least 3 temperature control sensor
5	Should have over temperature sensor.
6	Should have Digital Hour Meter
7	Should have microprocessor control system to allow a multi-staged Heater.
8	Three heater elements to eliminate flicker of OR lighting.
9	Should have Temp. Range – Ambient to 43°C ± 1.5°C Max.
10	Should have High Efficiency Air Filter of 0.3 Micro size or better.
11	The weight of Equipment should be less than 8.0 kg.
12	Should distribute even temperature across the blankets and patient.
13	Blanket should not be more than 160 gm. weight.
14	Should have safe warming avoids tissue damaging.
15	Should ensure even temperature from head to toe.
16	The equipment should have easy attachment to IV pole, Bedrail or Freestanding.
17	Meet Regulatory standard for leakage current.
18	Offered model should be USFDA or European CE with four digit notified body number approved or BIS
II	Accessories
1	Adult Full Body Blankets: 10
2	Paediatric Full Body Blankets 5
3	Adult Under-Body Blanket 10
4	Paediatric Under-Body Blankets 5
5	Large Paediatric Under-Body Blankets 5

SN	BOQ	Qty
1	Patient Warming system as specified	1 No
2	Adult Full Body Blankets	10 No
3	Paediatric Full Body Blankets	5 No
4	Adult Under-Body Blanket	10 No
5	Paediatric Under-Body Blankets	5 No
6	Large Paediatric Under-Body Blankets	5 No

Defibrillator with CPR monitoring and TC pacing

1	The defibrillator should be least, lightweight, small size with bright colored display	
2	The defibrillator should be Biphasic waveform with 3 wave form display	
3	Screen size minimum 6 inches diagonal	
4	It should display of both selected and delivered energy	
5	It should have ability to energy selection from Paddles or Unit.	
6	In manual mode the unit should provide energy selection at (1-10, 15, 20, 30, 50,70,85,100,150,200) joules and AED mode of upto 150 Joules.	
7	It should have ability to measure chest compression rate and depth in real time with both visual & audible feedback and optional CPR index on screen.	
8	The unit should have transcutaneous external pacing with 40 milli-second pulse width	
9	The unit should do self test daily with facility to give print out of defibrillator testing report and also have code ready indicator on unit.	
10	It should have ability to filter out CPR artifacts and allowing person to see organized rhythms without interrupting chest compression	
11	The defibrillator should have facility to monitor following parameters	
	a. ETCO2	
	b. ECG	
	c. SpO2 (Optional)	
	d. NIBP (Optional)	
12	Should have optional capability of internal defibrillation if and when required.	
13	Should have US FDA or European CE with four digit notified body number certificate and certificate to be submitted.	
14	In addition to standard accessories following items have to be supplied with unit	
	Li-ion smart battery	1 no.s
	Reusable airway adapter to be used with ETCO2 sensor & cable	1no.s
	Multi Function Defibrillator/Pacing padz	10 no.s
	Reusable CPR feedback sensor/ or similar product reused at least on 90 patients	2 no.s
	BOQ	
1	Defibrillator with CPR monitoring and TC pacing	1 no
2	Paddles Adult/Paediatric (pair)	1 no
3	ECG Cable with electrodes	1 set
4	ETCO2 Module	1 no
5	SpO2 Module (Optional)	
6	NIBP Module (Optional)	
7	Reusable airway adapter to be used with ETCO2 sensor & cable	1no.s
8	Li-ion smart battery	1 no.s
9	Multi Function Defibrillator/Pacing padz (Disposable)	10 no.s
10	Reusable CPR feedback sensor/ or similar product reused at least on 90 patients	2 no.s
11	ECG Rolls	10 nos

Infusion Pump (Volumetric)

1	**Description of Function**	
1.1	Volumetric Infusion Pump is a medical device that delivers intravenous fluids and	
2	**Operational Requirements**	
2.1	Programmable volumetric infusion pump is required	
3	**Technical Specifications**	
3.1	Battery back-up operating time 5 hours.	
3.2	LCD programming display	
3.3	Alpha numeric programming keyboard	
3.4	Pole clamp Multi-function mounting clamp	
3.5	Nurse call output alarm, time and date settings	
3.6	Quick titration of rate or dose with volume-time programming	
3.7	Flow rate range (primary) 0.1 to 99.9 ml/hr. (0.1 ml increments) and 1 to 1200 ml/hr.	
3.8	Volume to be infused 0.1 to 99.9 ml (o.1ml increments) and 1 to 9999 ml(1 ml	
3.9	Both flow rates and volume to be infused should be configured to limit the maximum	
3.1	Accuracy ±5%.	
3.11	Pump Database: events of 24 hours with real time.	
4	**System Configuration Accessories, spares and consumables**	
4.1	"Compatible with any standard (PVC) infusion sets available in local Indian market."	
4.2	10 numbers of required infusion sets should be supplied with the single unit	
5	**Environmental factors**	
5.1	The unit shall be capable of being stored continuously in ambient temperature of 0-	
5.2	The unit shall be capable of operating continuously in ambient temperature of 10 -	
6	**Power Supply**	
6.1	Power input to be 220-240VAC, 50Hz fitted with Indian plug	
7	**Standards, Safety and Training**	
7.1	Should have US – FDA/European CE with four digit notified body number certificate or BIS	
7.2	Manufacturer/Supplier should have ISO certification for quality standards.	
8	**Documentation**	
8.1	User/Technical/Maintenance manuals to be supplied in English.	
8.2	Certificate of calibration and inspection from factory.	
8.3	List of Equipment available for providing calibration and routine Preventive	
	BOQ	
1	Infusion Pump as per specification	1 No.
2	Infusion Set	10 Nos
3	Mounting Clamp	1 No.

LED Head Light	
Sl. No.	**Technical Specification**
1	Integrated battery/battery light source that allows more freedom of movement.
2	No separate light source required
3	No separate light cable required
4	No mains supply required
5	Low energy consumption
6	No need to change the lamp (Atleast50,000 hours of service life)
7	Available with rechargeable battery
8	LED white light Only
9	Luminosity adjustable from 10 to 100 mm at a working distance of 40 cm
10	Soft flexible headband
11	Ergonomic fit
12	Easy vertical and horizontal adjustment to the shape of head
13	Extension cable for attaching the rechargable battery and battery box to the clothing
14	Should be US-FDA or European CE with 4 digit notified body number or BIS

Medical College Departmental Equipments for ANATOMY & PHYSIOLOGY

1 Department of ANATOMY

Item No. 1 Mortuary cooler / refrigerator with arrangement to keep 8 bodies
Specification for cold storage chambers for dead bodies

1. Corrosion free interior and exterior.
2. Audio visual alarm for high and low temperature.
3. Designed for long storage of cadaverous.
4. PUF insulation on all sides.
5. Special design ensuring best hygiene with washing & draining facility.
6. Reliable
7. Special loading trolley.
8. Energy efficient and sturdy construction.
9. Light weight.
10. Digital temperature indication.
11. Low maintenance.
12. Microprocessor based / PLC temperature control.
13. Double walled cooling units.
14. Outer body of the mortuary chamber is constructed out of thick S.S sheets. The inner chamber made of heavy gauge stainless steel sheet of SS-304 grade. The 100mm gap between the walls filled high grade poly urethane insulation, which ensures maximum thermal efficiency.
15. The doors connected by very sturdy chrome plate hinges and fitted with hard chrome plated lubricated latches for opening of the door.
16. The doors made of galvanized steel sheets, lined with stainless steel for extra protection and long life.
17. All the doors fitted with high quality neoprene rubber gaskets for airtight fittings with very sturdy casters.
18. CFC free compressors, conforming to latest international standards and guidelines. Twin compressors of which one is standby.
19. Vapor proof lamp inside.
20. Temperature range -2 to 4 deg C with temp failure alarms.
21. Suitable Voltage automatic stabilizer O/P 230 +/-10% I/P 150 – 280Volts.
22. The Product should be US FDA / European CE with 4 digit notified body number / BIS Certified.

23. Warranty : 5 Years

2. Department of PHYSIOLOGY DEPT

Item No. 1. EXERCISE PHYSIOLOGY SYSTEM WITH ALL Accessories

- The system should measure VO2, VCO2, RQ, VE, spirometry/ flow volume with other physiological parameters like VO2 Max etc.

- The system should be able to record & measure VO2, VCO2, VE Expired minute volume, RER respiratory exchange ratio, ECG, HRV, Body Temperature and Pressure Saturate BTPS, Standard Temperature and Pressure Dry STPD, (VE / VO2), (VE / VCO2) etc. and should generates many Metabolic graphs.

- The system for wired and wireless should have a simultaneous recording for all the signals and the have Sampling rate .

- Simple Plug and play USB connection with software controlled sampling rates, range, filter setting with continuously record and display up to 32 channels of data

- System should be supplied with Pulse PPG, blood pressure, ECG, Pulse Transit time, Digital microphone for heart & lung sounds studies. Pulse Wave velocity, Deep breathing test, Valsalva Maneuver, Dynamometer to study Hand Grip Test.

- Wireless system to record noise free multichannel ECG, R-R interval, Heart Rate, Respiration rate Skin temp, GSR, Oxygen saturation(SPO2), Accelerometer (XYZ) activity integrated with metabolic parameters should be supplied with 6 belts of different sizes or 2 shirts.

- Facility to perform complete heart rate variability analysis (Time & Frequency domains analysis), ECG Analysis interpretation, PQRST amplitudes and ST elevation, cardiac axis analysis during exercise.

- The Gas Analysis should have high sensitive oxygen and carbon dioxide sensor with adequate variable flow range for best performance and results and physical mixing chamber suitable for extremely high and low ventilation ranges, provided with small and medium size mouth piece an head cap and Douglas bags.

- The wired and the wireless components should work independently and simultaneously to record and analyze all the required parameter in a single screen and same software for interpretation and computation of results.

.

- Free Software upgrades and updates should be provided for next 5 years.

- Software for multiple PCs for analysis and acquisition should be provided for all the computer of the lab.

- Manufacturer/Supplier should have ISO certification for quality standards

- Demonstration of the equipment and necessary training to be provided by the experts.

The Product should be European CE with 4 digit notified body number / US-FDA/ BIS certified.

- Warranty: 5 Years

ITEM No. 2. Gas Analyzer – automatic for CO2, O2, N2

Record & measure VO2 oxygen consumption, VCO2 carbon dioxide production, VE Expired minute volume, RER respiratory exchange ratio, ECG, HRV, Body temperature and Pressure saturate BTPS, Standard temperature and pressure Dry STPD, (VE/VO2), (VE/VCO2) etc. and should generate a number of graphs like Metabolic log window, VE (BTPS) vs. VO2, VE (BTPS) vs. VCO2, VCO2 vs. VO2, RER vs. time, VO2 vs. time, VCO2 vs. time, VE(BTPS) vs. time.

High speed USB based recording unit along with Gas analyzers, spirometer amplifier, flow-head and other transducers and accessories.

Have oxygen sensor with minimum range of 5-100% oxygen and resolution of at least 0.02%, and the carbon dioxide sensor with minimum range 0-8% of carbon dioxide and resolution of at least0.1%and variable flow range of 0-185 ml/min for best performance and results.

To perform online and offline analysis up to 32 channels. Supplied with breathing accessories and Douglas bags. To plot real time flow & volume loops.

ECG switch bow (lead I, II, III aVL, aVF, aVR and V1 to V6) for real time cardiac axis and vector analysis. IEC 60601-1 & ISO 9001:2008certified & making them safe for use with human subjects.

An obligatory demonstration of the equipment and necessary training.
To be supplied with Bicycle ergometer, branded computer & UPS.

The Product should be European CE with 4 digit notified body number / US FDA/ BIS certified.

Warranty: 5 Years

ITEM NO. 3. Multichannel Physiograph, 3 channel, complete with accessories

The software should have step by step instructions, protocol and experimental design for performing various experiments in physiology teaching applications. It should have sample data for animal experiments for demonstrating to the students.

1. The System should include hardware software and other related accessories for Pulse transducer, respiration , Blood pressure, Grip force, ECG,HRV, GSR, Temp etc.
2. Individually selectable input sensitivities, analog output for stimulation or pulse generation, high speed USB, built- in isolated stimulator, built-in dual bio-amplifier and a powerful internal processor along with low- and high-pass filters.
3. ECG (Lead I, II, III, aVL, aVF, aVRetc for real time cardiac axis & vector analysis.
4. ADC Configuration: Resolution: 16 bit, each channel has its own ADC.
5. Maximum sampling rates: 400 KHz (aggregate)
6. Filter – Low Pass: 1, 2, 5, 10, 20, 50, 100, 200, 500, 1000, 2000 Hz and anti-alias, high-pass filters, Band Pass Notch, Mains Digital.
7. Bio-Amplifier: - 3 Channels, Range:- ±20mV to 100µV.
8. It should have various automatic analysis modules for ECG, HRV, Blood Pressure. Shall be supplied with all transducers.
9. Online & offline analysis with various export options like MATLAB, Excel, QuickTime, Text etc.
10. Isolated Stimulator Output.
11. Pulse duration: 50–200 µs (software-selectable) & Output current: 0–20 mA.
12. Pulse rate: Software-selectable, to a maximum of 20 Hz and 200 µs for safety.
13. Shall be provided with computer with following configuration. : i 5 /7th generation Windows 10 ,Professional 64 bit, Processor: Core2Duo of higher, RAM: 4GB or higher, 250 GB hard disk or HDD, CD/DVD Optical Drive, Screen Resolution 1024x768 or higher.
14. Power input to be 220-240VAC, 50Hz.
15. Product Should be ISO certified
16. The Product should be European CE with 4 digit notified body number / US-FDA/ BIS certified.

4. **PHYSIOGRAPH SINGLE CHANNEL WITH STANDARD ACCESSORIES**

Should be able to record, Pulse, respiration, BP & Bio-Electrical Potentials like ECG,EMG, EEg

It should be made of light metal for compactness and lightness.

Student Physiograph should be single channel console with 9 speed (.5,1,2,5,10,20,25,30 & 50 mm/sec) chart drive, time & event markers and appropriate transducers and stimulator

Couplers:

- Strain guage : 1 No.
- Isotonic : 1 No
- Pulse respiration : 1 No
- Temperature : 1 No.
- EKG (Clinical) with electrodes, 5 Pin junction box & jelly.
- Biopotential: 1 No (with electrodes, 3 pin junction box, pastes and electrodes for action potential)

Transducer:

- Pressure – 1 No.
- Volume – 1 No.
- Muscle activity / Force – 1 No.
- Isotonic fine movement – 1 No
- Pulse – 1 no
- Respiration transducer along with belt – 1 No
- Temperature - 1 No

Accessories Spares and consumables

- Extra pen with Cradles – 1 No.
- Earth Lead
- Ink bottle
- EP to EP lead
- Perpex Pen
- Steel wire
- Motor belt
- III pin junction box, action potential electrode
- V- pin junction box
- Chart paper Z fold (2 packets)
- Fuse
- Machine Cover
- Instruction manual

Power Supply

Power input to be 220-240VAC, 50Hz

Product should be ISO Certified

The Product should be European CE with 4 digit notified body number / US FDA/ BIS certified.

Warranty: 5 Years

DIGITAL PHYSIOGRAPH:-

The System Should be able to record the Pulse, respiration, Biopotentials like (EEG, ECG, EMG, EOG etc), , BP, heart sound , NCV, HRV, Hand dynamometer, Sway analysis, Reflex & reaction time, Peak Analysis, Pulse Transit Time and plethysmography etc.

Technical Specifications:-

- Number of inputs 4 channels.
- 2 amplifiers for recording bio-potentials &2 general purpose amplifiers channels.
- 1 stimulation unit capable of delivering square wave pulse of user defined parameters, Voltage range 0-10V, pulse duration range 1-1000msec, frequency range 0-100Hz, Current range 0- 20mA,Integrated and synchronised with software.
- Data Sampling frequency more than 10Khz and linked to the computer through high speed USB2 port
- Facility for ECG leads (I, II, III, aVL, aVF, aVR etc) with real time cardiac axis and vector analysis.
- Four force sensor balance board for body sway analysis that communicate with the software.
- Software with step by step instructions, protocol and experimental design for performing various experiments in physiology teaching applications. Also should have sample data for animal experiments for demonstrating to the students.
- Online facility for students to preview and analyse the data from anywhere outside the laboratory through internet would be preferable.(Optional)
- Licensed Software: It should have various automatic analysis modules for ECG, HRV, Blood Pressure, Peak analysis, spike histogram etc
- Real time data streaming with Excel, MatLab and other common formats.
- Necessary certificate for safe use for human.
- Dual core i3 processor based desktop computers with DVD RW, 4 GB RAM, HDD 500 GB, 19” LED Monitor, Original Windows OS, UPS and suitable printer should be supplied.
- Demonstration and training at site
- ISO, IEC and other safety and quality certificate
- The Product should be European CE with 4 digit notified body number / US FDA/ BIS certified.

F.No.31026/36/ 2016-MD
Ministry of Chemicals & Fertilizers
Government of India
Department of Pharmaceuticals

Dated 18th May, 2018
Janpath Bhawan, New Delhi

Subject: Guidelines for implementing the provisions of Public Procurement (Preference to Make in India) Order (PPO), 2017, related to procurement of Goods & Services in Medical Devices - reg.

No. 31026/36/2016-MD: Whereas Department of Industrial Policy and Promotion (DIPP), pursuant to Rule 153(iii) of the General Financial Rules 2017, has issued Public Procurement(Preference to Make in India) Order (PPO), 2017 vide no. P-4502/2/2017-B.E.-II dated 15.06.2017.

Whereas DIPP, in order to facilitate the implementation of the PPO, 2017, vide D.O. No. P-45021/2/2017-BE-II dated 14.08.2017 has identified Department of Pharmaceuticals (DoP) as the Nodal Department for implementing the provisions of the PPO 2017 relating to goods &services related to Pharmaceuticals Sector. DIPP vide Office Memorandum no. P-45021/13/2017-PP Section BE-II dated 23.03.2018 has decided that the Nodal Ministry for product category Medical Devices shall be Department of Pharmaceuticals.

Whereas Para 3 of PPO, 2017 makes it mandatory for procuring entities to give purchase preference to local suppliers, Para 5 of PPO, 2017 empowers Nodal Ministry to prescribe percentage and the manner of calculation of minimum local content in respect of any particular item relating to medical devices and Para 9 of PPO, 2017 deals with verification of local content.

Now, therefore, DoP issues the following guidelines for implementation of the provisions of PPO, 2017 with respect to public procurement of Goods & Services in Medical Devices:

1) **Percentage of Minimum Local Content:** Medical Device Industry (MDI) is a multi-product industry responsible for provisioning of wide variety of crucial medical products ranging from simple tongue depressors & glucometer strips to large radiology & electronic medical equipment. The medical devices industry can be broadly classified as consisting of (a) medical disposables and consumables; (b) medical electronics, hospital equipment, surgical instruments; (c) Implants; and (d) In-Vitro Devices/Diagnostic Reagents. Individually there are around 5000 different kinds of medical devices and it is not practical to prescribe the local content and percentage of preference in domestic procurement for each medical device.

   Moreover, DoP needs accurate and reliable data regarding total capacity and production of various categories of medical devices in India, regarding the level

of competition in the market in different segment of medical devices and regarding the processes involved in the manufacture of medical devices for prescribing the percentage of minimum local content for each category of medical devices, for determining the manner of calculation of local content in the medical devices and for determining the purchase preference to be given to local suppliers in the procurement by the public agencies. The percentage of local content, the manner of calculation of the local content and the provision of supplies to be procured from local suppliers may be revised after relevant data in this regard becomes available.

However for the time being, based on the present level of understanding of the medical device market in India and discussion with various industry representatives, DoP in accordance with Para 5 of PPO, 2017 prescribes the following percentages of minimum local content for various categories of medical devices for preference in public procurement:

Category of Medical Devices	% of Minimum Local Content	% of Local Content proposed to be increased in phased manner over next three years
Medical disposables and consumables	50%	50% to 75%
Medical electronics, hospital equipment, surgical instruments	25%	25% to 45%
Implants	40%	40% to 60%
Diagnostic Reagents/IVDs	25%	25% to 45%

2) **Manner of calculation of Local Content:** DoP in accordance with Para 5 of PPO, 2017 prescribes the following manner of calculation of local content:

i. Local content of Medical Device shall be computed on the basis of the cost of domestic components in the device/service compared to the total cost of the device/service. The total cost of product shall be the cost incurred for the production of the medical device including direct component i.e. material cost, manpower cost and overhead costs including profit but excluding taxes and duties.

ii. The determination of local content cost shall be based on the following:
   a) In the case of direct component (material), based on the country of origin
   b) In the case of manpower, based on domestic manpower

iii. The calculation of local content of the combination of several kinds of goods shall be based on the ratio of the sum of multiplication of local content of each goods with the acquisition price of each goods to the acquisition price of combination of goods.

iv. Format of calculation of local content shall be as contained in **Enclosure-I**.

3) **Requirement of Purchase Preference**: Purchase preference shall be given to local suppliers by all procuring entities as per provisions laid down in para 3 of PPO, 2017. Further, as per provisions of Para 3(a) of the PPO 2017 i.e. in procurement of goods where sufficient local capacity and local competition exists and estimated value of procurement is Rs 50 Lakhs or less, a list of goods will be issued by this Department in due course. Till the time such a list is issued, provisions of para 3(b) or para 3(c) of PPO, 2017, as applicable, shall apply for all procurements without regard to value of procurement.

4) **Verification of Local Content**:

a) The local supplier at the time of tender, bidding or solicitation shall be required to furnish self-certification of local content in the format as contained in **Enclosure-II**.

b) In cases of procurement for a value in excess of Rs. 10 crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

c) In each tender, procuring entity shall clearly mention the details of its competent authority which is empowered to look into procurement related complaints and the fees for such complaints, relating to implementation of PPO, 2017.

d) In case a complaint is received by the procuring entity against the claim of a bidder regarding domestic value addition in medical device, the procuring entity shall have full rights to inspect and examine all the related documents and take a decision. In case any clarification is needed, matter may be referred to DoP to the Grievance Redressal Committee consisting of the following:
   1. Chairman - Joint Secretary (Medical Device) in DoP
   2. Member - Director / Deputy Secretary (Medical Devices) in DoP
   3. Member - Representative (not below the rank of Deputy Secretary) from M/o Health & Family Welfare / CDSCO

e) Any complaint referred to the procuring entity shall be submitted along with all necessary documentation in support of the complaint regarding domestic value addition claimed in medical device and shall be disposed of within 4 weeks of the reference by the procuring entity.

f) In case, the complaint is referred to DoP by a bidder or procuring entity, the grievance redressal committee shall dispose of the complaint within 4 weeks of its reference and receipt of all documents from the bidder after taking in consideration, the view of the procuring entity. The bidder shall be required to furnish the necessary documentation in support of the local content claimed in medical devices to the grievance redressal committee under DoP within 2 weeks of the reference of the matter. If no information is furnished by the bidder, the grievance redressal committee may take further necessary action, in consultation with procuring entity to establish the bonafides of the claim.

g) In case of reference of any complaint by the concerned bidder, there would be a fee of Rs. 2 Lakh or 1% of the value of the medical devices being procured (subject to a maximum of Rs. 5 Lakh), whichever is higher, to be paid by way of a Demand Draft to be deposited with the procuring entity, along with the

complaints by the complainant. In case, the complaint is found to be incorrect, the complaint fee shall be forfeited. In case, the complaint is upheld and found to be substantially correct, deposited fee of the complainant would be refunded without any interest.

5) All other provisions of PPO, 2017 shall be applicable as such and shall be adhered to by all procuring agencies for procurement of any medical device.

6) These guidelines shall remain applicable for one year or until further orders from the date of its issuance.

(Dinesh Kapila)
Economic Adviser
Ph. 23381927

Enclosure-I

Calculation of Local Content

Name of manufacturer	Calculation by Manufacturer (Cost per unit of product)		
Cost Component	Cost (Domestic Component) a	Total Cost b	Percentage of Local Content c=(a/b)*100
I. .... II. .... III. Total Cost (Excluding tax and duties)			

Note:

I. **Cost (Domestic Component)**: Cost of domestic component may be calculated based on one of the followings depending on data available. Each of these calculations should provide consistent result.

a. Sum of the costs of all inputs which go into the product (including duties and taxes levied on procurement of inputs except those for which credit/ set-off can be taken) and which have not been imported directly or through a domestic trader or an intermediary.

b. Ex-Factory Price of product minus profit after tax minus sum of imported Bill of Material used (directly or indirectly) as inputs in producing the product (including duties and taxes levied on procurement of inputs except those for which credit/ set-off can be taken) minus warranty costs.

c. Market price minus post-production freight, insurance and other handling costs minus profit after tax minus warranty costs minus sum of Imported Bill of Material used as inputs in producing the product (including duties and taxes levied on procurement of inputs except those for which credit / set-off can be taken) minus sales and marketing expenses.

II. **Total Cost**: Total cost may be calculated based on one of the following depending on data available. Each of these calculations should provide consistent result.

a. Sum of the costs of all inputs which go into the product (including duties and taxes levied on procurement of inputs except those for which credit / set-off can be taken).

b. Ex-Factory Price of product minus profit after tax, minus warranty costs.

c. Market price minus post-production freight, insurance and other handling costs minus profit after tax, minus warranty costs minus sales and marketing expenses.

Enclosure-II

Format for Affidavit of Self Certification regarding Local Content in a Medical Device to be provided on Rs. 100/- Stamp Paper

Date:_____

I_____ **S/o,D/o,W/o**_____, Resident of

_____

do hereby solemnly affirm and declare as under:

That I will agree to abide by the terms and conditions of the policy of Government of India issued vide Notification No:

That the information furnished hereinafter is correct to best of my knowledge and belief and I undertake to produce relevant records before the procuring entity or any authority so nominated by the Department of Pharmaceuticals, Government of India for the purpose of assessing the local content.

That the local content for all inputs which constitute the said medical device has been verified by me and I am responsible for the correctness of the claims made therein.

That in the event of the domestic value addition of the product mentioned herein is found to be incorrect and not meeting the prescribed value-addition norms, based on the assessment of an authority so nominated by the Department of Pharmaceuticals, Government of India for the purpose of assessing the local content, action will be taken against me as per Order No. P-45021/2/2017-B.E.-II dated 15.06.2017 and Guidelines issued vide letter no. 31026/36/2016-MD dated 18.05.2018.

I agree to maintain the following information in the Company's record for a period of 8 years and shall make this available for verification to any statutory authority:

i) Name and details of the Domestic Manufacturer (Registered Office, Manufacturing unit location, nature of legal entity)
ii) Date on which this certificate is issued
iii) Medical devices for which the certificate is produced
iv) Procuring entity to whom the certificate is furnished
v) Percentage of local content claimed
vi) Name and contact details of the unit of the manufacturer
vii) Sale Price of the product
viii) Ex-Factory Price of the product
ix) Freight, insurance and handling
x) Total Bill of Material
xi) List and total cost value of inputs used for manufacture of the medical device
xii) List and total cost of inputs which are domestically sourced. Value addition certificates from suppliers, if the input is not in- house to be attached.
xiii) List and cost of inputs which are imported, directly or indirectly

For and on behalf of **(Name of firm/entity)**

Authorized signatory (To be duly authorized by the Board of Director)

F. No. Z.28018/67/2017-EPW
Government of India
Ministry of Health & Family Welfare
(EPW Division)

Nirman Bhawan, New Delhi
Dated: 05.11.2019

OFFICE MEMORANDUM

Sub: Implementation of Public Procurement (Preference to Make in India) Order, 2017 issued by DPIIT -reg.

The undersigned is directed to refer to minutes of 8th Standing Committee meeting of DPIIT held on 10.10.2019 to review the implementation of Public Procurement (Preference to Make in India) Order, 2017 (PPP-MII). It is observed that in-spite of this office OMs dated 14.01.2018, 23.02.2018, 26.02.2018, 02.11.2018 & 25.10.2019, procuring entities are still incorporating restrictive and discriminatory clause of mandatory USFDA/European CE certification in procurement of health sector goods.

Standing Committee has directed that stipulation of mandatory exclusion clause like USFDA/European CE certified products is restrictive and discriminatory for local manufacturers and hence policy should be discontinued forthwith.

All the procuring entities under MoHFW are requested to strictly comply with the provisions of PPP-MII Order, 2017 and desist from such restrictive and discriminatory clauses.

(Rajendran Nair M.B.)
Under Secretary (EPW)
Tel:-23061436

To:

1. PPS to DGHS, Nirman Bhawan, New Delhi
2. PPS to AS&FA, AS&MD, AS(H), AS&DG, MoHFW, Nirman Bhawan, New Delhi.
3. JS(SP)/ JS(LA)/ JS(SK)/ JS(MA)/ JS(RS)/ JS(SS)/ JS(VG)/ JS(MKB)/JS(NACO)/ JS(PP)/ JS(GM)/JS(RS)/ EA (PN)/EA(NS).
4. The Director, AIIMS, New Delhi/ Patna/ Bhubaneshwar/ Raipur/ Bhopal/ Jodhpur/ Rishikesh.

*HSCC (I) LTD
E-6(A), Sector-1 Noida
Dt. 15/11/19
Sl.No. 1533

No. P-45021/2/2017-PP (BE-II)
Government of India
Ministry of Commerce and Industry
Department of Industrial Policy and Promotion
(Public Procurement Section)
****

Dated 28th May, 2018
Udyog Bhawan, New Delhi

To
All Central Ministries/Departments/CPSUs/All concerned

ORDER

Subject: Public Procurement (Preference to Make in India), Order 2017 – Revision; regarding.

Department of Industrial Policy and Promotion, in partial modification of Order No.P-45021/2/2017-B.E.-II dated 15.6.2017, hereby issues the revised 'Public Procurement (Preference to Make in India), Order 2017" with immediate effect:-

Whereas it is the policy of the Government of India to encourage 'Make in India' and promote manufacturing and production of goods and services in India with a view to enhancing income and employment, and

Whereas procurement by the Government is substantial in amount and can contribute towards this policy objective, and

Whereas local content can be increased through partnerships, cooperation with local companies, establishing production units in India or Joint Ventures (JV) with Indian suppliers, increasing the participation of local employees in services and training them,

Now therefore the following Order is issued :

1. This Order is issued pursuant to Rule 153 (iii) of the General Financial Rules 2017.

2. **Definitions**: For the purposes of this Order:

   'Local content' means the amount of value added in India which shall, unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured (excluding net domestic indirect taxes) minus the value of imported content in the item (including all customs duties) as a proportion of the total value, in percent.

   'Local supplier' means a supplier or service provider whose product or service offered for procurement meets the minimum local content as prescribed under this Order or by the competent Ministries / Departments in pursuance of this order.

   'L1' means the lowest tender or lowest bid or the lowest quotation received in a tender, bidding process or other procurement solicitation as adjudged in the evaluation process as per the tender or other procurement solicitation.

   'margin of purchase preference' means the maximum extent to which the price quoted by a local supplier may be above the L1 for the purpose of purchase preference.

.....Contd. p/2

'Nodal Ministry' means the Ministry or Department identified pursuant to this order in respect of a particular item of goods or services or works.

'Procuring entity' means a Ministry or department or attached or subordinate office of, or autonomous body controlled by, the Government of India and includes Government companies as defined in the Companies Act.

'Works' means all works as per Rule 130 of GFR- 2017, and will also include *'turnkey works'*.

3. **Requirement of Purchase Preference :** Subject to the provisions of this Order and to any specific instructions issued by the Nodal Ministry or in pursuance of this Order, purchase preference shall be given to local suppliers in all procurements undertaken by procuring entities in the manner specified hereunder"

a. "In procurement of goods, services or works in respect of which the Nodal Ministry has communicated that there is sufficient local capacity and local competition, and where the estimated value of procurement is Rs. 50 lakhs or less, only local suppliers shall be eligible. If the estimated value of procurement of such goods or services or works is more than Rs. 50 lakhs, the provisions of sub-paragraph b or c, as the case may be, shall apply";

b. "In the procurements of goods or works which are not covered by paragraph 3a and which are divisible in nature, the following procedure shall be followed";

   i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a local supplier, the contract for full quantity will be awarded to L1.

   ii. If L1 bid is not from a local supplier, 50% of the order quantity shall be awarded to L1. Thereafter, the lowest bidder among the local suppliers, will be invited to match the L1 price for the remaining 50% quantity subject to the local supplier's quoted price falling within the margin of purchase preference, and contract for that quantity shall be awarded to such local supplier subject to matching the L1 price. In case such lowest eligible local supplier fails to match the L1 price or accepts less than the offered quantity, the next higher local supplier within the margin of purchase preference shall be invited to match the L1 price for remaining quantity and so on, and contract shall be awarded accordingly. In case some quantity is still left uncovered on local suppliers, then such balance quantity may also be ordered on the L1 bidder.

c. "In procurements of goods or works not covered by sub-paragraph 3a and which are not divisible, and in procurement of services where the bid is evaluated on price alone, the following procedure shall be followed":-

   i. Among all qualified bids, the lowest bid will be termed as L1. If L1 is from a local supplier, the contract will be awarded to L1.

.....Contd. p/3

ii. If L1 is not from a local supplier, the lowest bidder among the local suppliers, will be invited to match the L1 price subject to local supplier's quoted price falling within the margin of purchase preference, and the contract shall be awarded to such local supplier subject to matching the L1 price.

iii. In case such lowest eligible local supplier fails to match the L1 price, the local supplier with the next higher bid within the margin of purchase preference shall be invited to match the L1 price and so on and contract shall be awarded accordingly In case none of the local suppliers within the margin of purchase preference matches the L1 price, then the contract may be awarded to the L1 bidder.

4. **Exemption of small purchases**: Notwithstanding anything contained in paragraph 3, procurements where the estimated value to be procured is less than Rs. 5 lakhs shall be exempt from this Order. However, it shall be ensured by procuring entities that procurement is not split for the purpose of avoiding the provisions of this Order.

5. **Minimum local content**: The minimum local content shall ordinarily be 50%. The Nodal Ministry may prescribe a higher or lower percentage in respect of any particular item and may also prescribe the manner of calculation of local content.

6. **Margin of Purchase Preference**: The margin of purchase preference shall be 20% .

7. **Requirement for specification in advance**: The minimum local content, the margin of purchase preference and the procedure for preference to Make in India shall be specified in the notice inviting tenders or other form of procurement solicitation and shall not be varied during a particular procurement transaction.

8. **Government E-marketplace**: In respect of procurement through the Government E-marketplace (GeM) shall, as far as possible, specifically mark the items which meet the minimum local content while registering the item for display, and shall, wherever feasible, make provision for automated comparison with purchase preference and without purchase preference and for obtaining consent of the local supplier in those cases where purchase preference is to be exercised.

9. **Verification of local content**:

   a. The local supplier at the time of tender, bidding or solicitation shall be required to provide self-certification that the item offered meets the minimum local content and shall give details of the location(s) at which the local value addition is made.

   b. In cases of procurement for a value in excess of Rs. 10 crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

   c. Decisions on complaints relating to implementation of this Order shall be taken by the competent authority which is empowered to look into procurement-related complaints relating to the procuring entity.

.....Contd. p/4

d. Nodal Ministries may constitute committees with internal and external experts for independent verification of self-declarations and auditor's/ accountant's certificates on random basis and in the case of complaints.

e. Nodal Ministries and procuring entities may prescribe fees for such complaints.

f. False declarations will be in breach of the Code of Integrity under Rule 175(1)(i)(h) of the General Financial Rules for which a bidder or its successors can be debarred for up to two years as per Rule 151 (iii) of the General Financial Rules along with such other actions as may be permissible under law.

g. A supplier who has been debarred by any procuring entity for violation of this Order shall not be eligible for preference under this Order for procurement by any other procuring entity for the duration of the debarment. The debarment for such other procuring entities shall take effect prospectively from the date on which it comes to the notice of other procurement entities, in the manner prescribed under paragraph 9h below.

h. The Department of Expenditure shall issue suitable instructions for the effective and smooth operation of this process, so that:

   i. The fact and duration of debarment for violation of this Order by any procuring entity are promptly brought to the notice of the Member-Convenor of the Standing Committee and the Department of Expenditure through the concerned Ministry /Department or in some other manner;

   ii. on a periodical basis such cases are consolidated and a centralized list or decentralized lists of such suppliers with the period of debarment is maintained and displayed on website(s);

   iii. in respect of procuring entities other than the one which has carried out the debarment, the debarment takes effect prospectively from the date of uploading on the website(s) in the such a manner that ongoing procurements are not disrupted.

10. **Specifications in Tenders and other procurement solicitations:**

a. Every procuring entity shall ensure that the eligibility conditions in respect of previous experience fixed in any tender or solicitation do not require proof of supply in other countries or proof of exports.

b. Procuring entities shall endeavour to see that eligibility conditions, including on matters like turnover, production capability and financial strength do not result in unreasonable exclusion of local suppliers who would otherwise be eligible, beyond what is essential for ensuring quality or creditworthiness of the supplier.

c. Procuring entities shall, within 2 months of the issue of this Order review all existing eligibility norms and conditions with reference to sub-paragraphs 'a' and 'b' above.

d. If a Nodal Ministry is satisfied that Indian suppliers of an item are not allowed to participate and/ or compete in procurement by any foreign government, it may, if it deems appropriate, restrict or exclude bidders from that country from eligibility for procurement of that item and/ or other items relating to that Nodal Ministry. A copy of every instruction or decision taken in this regard shall be sent to the Chairman of the Standing Committee.

....Contd. p/5

e. For the purpose of sub-paragraph 10 d above, a supplier or bidder shall be considered to be from a country if (i) the entity is incorporated in that country, or ii) a majority of its shareholding or effective control of the entity is exercised from that country; or (iii) more that 50% of the value of the item being supplied has been added in that country. Indian suppliers shall mean those entities which meet any of these tests with respect to India."

11. **Assessment of supply base by Nodal Ministries**: The Nodal Ministry shall keep in view the domestic manufacturing / supply base and assess the available capacity and the extent of local competition while identifying items and prescribing minimum local content or the manner of its calculation, with a view to avoiding cost increase from the operation of this Order.

12. **Increase in minimum local content**: The Nodal Ministry may annually review the local content requirements with a view to increasing them, subject to availability of sufficient local competition with adequate quality.

13. **Manufacture under license/ technology collaboration agreements with phased indigenization**: While notifying the minimum local content, Nodal Ministries may make special provisions for exempting suppliers from meeting the stipulated local content if the product is being manufactured in India under a license from a foreign manufacturer who holds intellectual property rights and where there is a technology collaboration agreement / transfer of technology agreement for indigenous manufacture of a product developed abroad with clear phasing of increase in local content.

14. **Powers to grant exemption and to reduce minimum local content**: Ministries /Departments of Government of India and the Boards of Directors of Government companies or autonomous bodies may, by written order,

    a. reduce the minimum local content below the prescribed level;

    b. reduce the margin of purchase preference below 20% ;

    c. exempt any particular item or procuring or supplying entities or class or classes of items or procuring or supplying entities from the operation of this Order or any part of the Order.

    A copy of every such order shall be marked to the Member-Convenor of the Standing Committee constituted under this Order.

15. **Directions to Government companies**: In respect of Government companies and other procuring entities not governed by the General Financial Rules, the administrative Ministry or Department shall issue policy directions requiring compliance with this Order.

16. **Standing Committee**: A standing committee is hereby constituted with the following membership:

    Secretary, Department of Industrial Policy and Promotion—Chairman
    Secretary, Commerce—Member
    Secretary, Ministry of Electronics and Information Technology—Member
    Joint Secretary (Public Procurement), Department of Expenditure—Member
    Joint Secretary (DIPP)—Member-Convenor

.....Contd. p/6

The Secretary of the Department concerned with a particular item shall be a member in respect of issues relating to such item. The Chairman of the Committee may co-opt technical experts as relevant to any issue or class of issues under its consideration.

17. **Functions of the Standing Committee**: The Standing Committee shall meet as often as necessary but not less than once in six months. The Committee

   a. shall oversee the implementation of this order and issues arising therefrom, and make recommendations to Nodal Ministries and procuring entities.

   b. shall annually assess and periodically monitor compliance with this Order

   c. shall identify Nodal Ministries and the allocation of items among them for issue of notifications on minimum local content

   d. may require furnishing of details or returns regarding compliance with this Order and related matters

   e. may, during the annual review or otherwise, assess issues, if any, where it is felt that the manner of implementation of the order results in any restrictive practices, cartelization or increase in public expenditure and suggest remedial measures

   f. may examine cases covered by paragraph 13 above relating to manufacture under license/ technology transfer agreements with a view to satisfying itself that adequate mechanisms exist for enforcement of such agreements and for attaining the underlying objective of progressive indigenization

   g. may consider any other issue relating to this Order which may arise.

18. **Removal of difficulties**: Ministries /Departments and the Boards of Directors of Government companies may issue such clarifications and instructions as may be necessary for the removal of any difficulties arising in the implementation of this Order.

19. **Ministries having existing policies**: Where any Ministry or Department has its own policy for preference to local content approved by the Cabinet after 1st January 2015, such policies will prevail over the provisions of this Order. All other existing orders on preference to local content shall be reviewed by the Nodal Ministries and revised as needed to conform to this Order, within two months of the issue of this Order.

20. **Transitional provision**: This Order shall not apply to any tender or procurement for which notice inviting tender or other form of procurement solicitation has been issued before the issue of this Order.

(B. S. Nayak)
Under Secretary to Government of India
Ph. 23061257