

NATIONAL TENDER ENQUIRY DOCUMENT

**FOR PROCUREMENT OF MEDICAL
EQUIPMENT FOR GOVERNMENT MEDICAL
COLLEGE AT PALI, RAJASTHAN**

On E-Tender Basis

Tender Enquiry No.: HSCC/PUR/PALI/04 dated 15.02.2019



HSCC (INDIA) LIMITED

Important to Bidder:

A. Off- line documents submission:- Sealed part –I document is to be submit in tender box in as per the schedule mentioned in section –I.

- **Bid Security (EMD) – in original**
- **Affidavit- in original.**
- **Bid Summary Sheet**

Note:

1. **Bidders are advice to submit above mentioned documents in tender box only in hard copy.**
2. **EMD favour of “HSCC (India) Ltd” payable at New Delhi/ Noida**

B. On line documents submission:-

- **(i) Part –II : Following scan documents upload as per chronological order as mentioned below:**
- **01 Bid summary sheet:** - Bid summary sheet should be as per Section XXII
- **02 EMD:** Demand draft / BG
- **03 Power of Attorney-** Power of attorney should be as per Section XXIII
- **04 Tender Form** Tender form should be as per section X.
- **05 Manufacturers Authorization Form-** Manufacturers Authorization Form should be as per SECTION – XIV
- **06 Affidavit/Undertaking** Affidavit/Undertaking should be as per Section XIX.
- **07 Proforma A** The performa “A” should as per TE document and supported **with purchaser order in accordance to section –IX in order to qualify the qualification criteria. The latest purchaser order along with End user certificate /installation certificate is to be scan from original copy.**
- **08 PAN and Certificate of Incorporation/Declaration”:** PAN Card and Certificate of Incorporation/Declaration of bidder firm.
- **09 Audited Annual report”:** Audited Balance sheet (2015 - 16, 2016 – 17 & 2017 – 18) of last 3 completed financial years certified by Chartered Accountant is to be Colour scan from original along with the certificate issued by Chartered Accountant certify
- **10 Certificate of Regn.”:-** The certificate of registration Issued by Directorate of Industries/NSIC, if SSI unit is to be Colour scan from original copy.
- **11 Quality Control Requirements”:-** This format should be as per Section VIII.
- **12 Bidder Information:-** Bidder Information should be as per Section XXIV
- **13 Technical Compliance”:-** Technical compliance for the quoted goods vis-à-vis the Technical specifications with all related brochures/catalogues in the tender enquiry, technical bid.

Note: Before uploading, bidder should ensure that all above documents is to be sign & stamped.

C. Price Bid

Part-III:- Price Bid is to be filled up on line as per the format mentioned in the TE document

- The bidders are required to be registered at HSCC e-tender portal www.tenderwizard.com/HSCC and downloading the bid document from HSCC website. For submission of the bids, the bidders are required to have Digital Signature Certificate (DSC) from one of the authorized Certifying Authorities.

Tender/Bid Validity: The tender/bid shall remain valid 180 days (One hundred and eighty days) from the date of Techno – Commercial Tender opening, date prescribed in the TE document. The EMD shall be valid for 225 days from Techno – Commercial Tender opening d

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HSCC (INDIA) LIMITED

(A subsidiary of NBCC (India) Limited)
(A GOVERNMENT OF INDIA ENTERPRISE)
E- 6(A), Sector -1, Noida- 201301

NOTICE INVITING E- TENDER (NIT)

IFB no. HSCC/PUR/PALI/04

Dated 15.02.2019

Following On-line bids are invited by HSCC (India) Limited on behalf of **Medical Education Department, Government of Rajasthan**, from eligible bidders who fulfill the Qualification Criteria as stipulated in the Tender Document having IFB (Tender Enquiry) No. **HSCC/PUR/PALI/04 Dated 15.02.2019** for Supply, Installation, Testing, Commissioning & handing-over of Various Equipment, EMD, Delivery and Installation period available in Detailed Tender Document. Tenders are available on-line from **15.02.2019** and Last Date of submission of Bids **18.03.2019(14.30 hrs.)**. The detailed NIT & Tender Document will be available on websites "www.tenderwizard.com"/HSCC "www.hscltd.co.in" /www.eprocure.gov.in. Corrigendum/ amendments etc., to this publication, if any, would appear only on the said websites and not be published.

Sr. CGM -I, HSCC (India) Limited

SECTION - I

NOTICE INVITING TENDERS (NIT)

Open E- Tender

Tender Enquiry No.: HSCC/PUR/PALI/04 dated 15.02.2018

HSCC (India) Limited as Executing Agency for and on behalf of **Medical Education Department, Government of Rajasthan** invites **On-line bids** from eligible bidders, in single stage two bid system for supply, installation, testing, commissioning & handing-over of various Medical Equipment **for Medical College at Pali, Rajasthan.**

	Name of Item	Deptt	Total Qty.	Set/ Nos	EMD Rs.	Estimated Cost Rs.
1	3 part hematology analyzer	Pathology Lab.	1	Set	11,000.00	5,50,000.00
2	5 part hematology analyzer	Pathology Lab.	1	Set	48,000.00	24,00,000.00
3	20 deep freezer	Microbiology dept	1	Nos	8,000.00	4,00,000.00
4	Automated Blood Culture System	Microbiology dept	1	Nos	80,000.00	40,00,000.00
5	Binocular microscope	Dept of pathology, micro, forensic	160	Nos	1,12,000.00	56,00,000.00
6	Biosafety cabinet	Microbiology dept	1	Nos	36,000.00	18,00,000.00
7	Microbiology charts	Microbiology dept	1	Nos	5,300.00	2,65,000.00
8	Lab freezer	Dept of Microbiology	1	Nos	5,000.00	2,50,000.00
9	Elisa reader and washer	Dept of microbiology	1	Nos	16,000.00	8,00,000.00
10	Fully automatic Cryostat	Department of pathology	1	Nos	64,000.00	32,00,000.00
11	Fully automated high throughput multi stainer workstation	Department of pathology	1	Nos	60,000.00	30,00,000.00
12	Fully Motorised Microtome	Department of pathology	1	Nos	36,000.00	18,00,000.00
13	Fully automatic cover slipping workstation	Department of pathology	1	Nos	64,000.00	32,00,000.00
14	Fully automatic immuno histochemistry setup	Department of pathology	1	Nos	1,40,000.00	70,00,000.00
15	Autopsy saw	Department of Forensic	2	Nos	12,000.00	6,00,000.00
16	Downdraft Elevating Pedestal Autopsy Table	Department of Forensic	2	Nos	50,000.00	25,00,000.00
17	"L" SHAPED AUTOPSY TABLE	Department of Forensic	1	Nos	50,000.00	25,00,000.00
18	Charts and models	Department of Forensic	1	set	10,000.00	5,00,000.00
19	Dissection set	Department of Forensic	1	Set	9,000.00	4,50,000.00
20	Forensic Instrument	Department of Forensic	1	set	28,000.00	14,00,000.00
21	Gas Chromatography and Mass spectrophotometer	Department of Forensic	1	set	1,70,000.00	85,00,000.00
22	Infra red spectroscope	Department of Forensic	1	set	44,000.00	22,00,000.00

		Forensic				
23	Mortuary chamber	Department of Forensic	1	set	40,000.00	20,00,000.00
24	Ultraviolet spectroscope	Department of Forensic	1	Nos	24,000.00	12,00,000.00
25	Walk in cold room	Department of Forensic	1	Nos	44,000.00	22,00,000.00
26	Microbiology BOD incubator	Microbiology	1	Nos	4,000.00	2,00,000.00
27	CO2 incubator	Microbiology	2	Nos	28,000.00	14,00,000.00
28	Hot plate & Cold plate	Dept of Pathology	1	Set	24,000.00	12,00,000.00
29	Pathology instruments	Dept of pathology	1	Set	25,000.00	12,50,000.00
30	Binocular microscope	Department of pathology, Microbiology and Forensic	10	Nos	1,60,000.00	80,00,000.00
31	Deca head Microscope	Department of pathology	1	Nos	56,000.00	28,00,000.00
32	Fully automated embedding system	Dept of pathology	1	Nos	24,000.00	12,00,000.00
33	Grossing station	Dept of pathology	1	Nos	10,000.00	5,00,000.00
34	Microscope for diagnostic and research work	Dept of pathology	1	Nos	50,000.00	25,00,000.00
35	Manual Rotary Microtome	Department of pathology and forensic	3	Nos	30,000.00	15,00,000.00
36	Pharmacology:-Charts	Pharmacology:-Charts	1	set	2,000.00	1,00,000.00
37	Pharmacology:-Computer assisted module	Pharmacology:-Computer assisted module	1	Set	57,000.00	28,50,000.00
38	Pharmacology equipments clinical pharmacy	Pharmacology equipments clinical pharmacy	1	Set	8,500.00	4,25,000.00
39	Pharmacology equipments	Pharmacology	1	Set	4,100.00	2,05,000.00
40	Pharmacology equipments-manniquin	Pharmacology	10	set	1,10,000.00	55,00,000.00
41	Environment decontamination system	-	1	Nos	6,000.00	3,00,000.00
42	Microbiology-laminar Flow	Microbiology Dept	1	Nos	5,500.00	2,75,000.00
43	Microbiology Hot air oven & Incubator	Microbiology Dept	1	Set	30,000.00	15,00,000.00
44	Non Referigerated centrifuge	Microbiology Dept	2	Nos	14,000.00	7,00,000.00
45	Microbiology Dept: Referigerated centrifuge	Microbiology Dept	1	Nos	11,000.00	5,50,000.00
46	Microbiology equipments Misc		1	Set	4,700.00	2,35,000.00
47	Pentahead microscope	Dept of pathology	1	Nos	40,000.00	20,00,000.00
48	Electrophoresis set up	Dept of pathology	1	Set	22,000.00	11,00,000.00
49	Fully automatic coagulation analyzer	Dept of pathology	1	Nos	40,000.00	20,00,000.00
50	Dept of pathology -model	Dept of pathology	1	Set	23,600.00	11,80,000.00
51	Automatic high speed slide scanner	Dept of pathology	1	Nos	1,30,000.00	65,00,000.00

52	Dept of pathology tissue processor	Dept of pathology	2	Nos	80,000.00	40,00,000.00
53	Single channel & multi channel pipette	Dept of pathology	2	Set	8,800.00	4,40,000.00
54	Waste water treatment unit	Pathology, Microbiology Labs	4	Set	28,000.00	14,00,000.00
55	Schedule-I : Water Purification System	Pathology and Microbiology	2	set	60,000.00	30,00,000.00

Sl. No.	Description	Schedule
i.	Dates of sale of tender enquiry documents	15.02.2018 to 18.03.2018, 10:00 hrs to 17:30 hrs IST
ii	Cost of the Tender Enquiry Document	Free of cost
iii	Pre Tender Meeting Date & Time	26.02.2018, 14:00 hrs IST for all items
iv.	Pre Tender Meeting Venue	HSCC (India) Ltd, Plot No. 6-A, Block-E, Sector-1, Noida (U.P)-201301
v.	Closing date & time for receipt of Tender	18.03.2018, 14:00 hrs IST
vi.	Time and date of opening of Techno – Commercial tenders	18.03.2018, 14:30 hrs IST
vii	Venue of Opening of Techno Commercial Tender	HSCC (India) Ltd, Plot No. 6-A, Block-E, Sector-1, Noida (U.P)-201301

1. Please long on to www.tenderwizard.com/HSCC only for downloading bid document and for participation through **e-tendering basis**. All corrigendum/modifications/amendments, if any, will be published on the website www.tenderwizard.com/HSCC only. All bidders are requested to visit this website on regular basis.
2. Tenderer may also download the tender enquiry documents from the web site <http://eprocure.gov.in/cppp>, www.hsccltd.com and submit its tender by utilizing the downloaded document, along with the required non-refundable fee as mentioned in Para 3 above. 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:

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

- (i) EMD (in original)
- (ii) Affidavit as per Section XIX (in original)
- (iii) Bid summary sheet as per Section XXII

B. Online (Part-II)

- (i) Bid summary sheet as per Section XXI
- (ii) EMD.
- (iii) Power of Attorney as per Section XXIII
- (iv) Tender Form as per section X.
- (v) Manufacturers Authorization Form as SECTION – XIV
- (vi) Affidavit as per Section XIX.
- (vii) Proforma “A” **with purchaser order in accordance to section –IX in order to qualify the bidder qualification criteria. The copy of latest purchaser order along with installation certificate /service report performance certificate is to be scan and upload accordingly.**
- (viii) Copy of PAN and Certificate of Incorporation/Declaration being a proprietary firm of the bidder.
- (ix) Audited Annual report of last 3 completed financial years (Balance sheet and Profit & Loss Account).
- (x) Certificate of Regn. Issued by Directorate of Industries/NSIC, if SSI unit.

- (xi) Quality Control Requirements as per Section VIII
- (xii) Bidder Information as per Section XXIV

3. All prospective tenderers may attend the **Pre Tender meeting**. The venue, date and time indicated in the Para 2 above.
4. **Bids to be submitted on-line only in single stage two bid system, i.e. Techno-commercial Bid (unpriced bid) and the Price Bid, for the above, including Bid Security on or before the closing date and time indicated above, failing which the tenders will be treated as late and rejected.**
5. In the event of any of the above tender opening/closing dates being declared as holiday/closed day for the purchase organization, the bids will be sold/received/opened on the next working day at the stipulated time.
6. The Tender Enquiry Documents are not transferable.
7. Bids shall be evaluated separately for each **item**.
8. HSCC reserves the right to accept or reject any or all of the tenders in full or in part including the lowest bid without assigning any reason thereof or incurring any liability thereby.

SECTION - II

GENERAL INSTRUCTIONS TO TENDERERS (GIT) CONTENTS

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GENERAL INSTRUCTIONS TO TENDERERS (GIT)

A. PREAMBLE

1. Definitions and Abbreviations

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

1.2. Definitions:

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

1.3 Abbreviations:

- (i) **“TE Document”** means Tender Enquiry Document
- (ii) **“NIT”** means Notice Inviting Tenders.
- (iii) **“GIT”** means General Instructions to Tenderers
- (iv) **“SIT”** means Special Instructions to Tenderers
- (v) **“GCC”** means General Conditions of Contract
- (vi) **“SCC”** means Special Conditions of Contract
- (vii) **“DGS&D”** means Directorate General of Supplies and Disposals
- (viii) **“NSIC”** means National Small Industries Corporation
- (ix) **“PSU”** means Public Sector Undertaking
- (x) **“CPSU”** means Central Public Sector Undertaking
- (xi) **“LSI”** means Large Scale Industry
- (xii) **“SSI”** means Small Scale Industry

- (xiii) "LC" means Letter of Credit
- (xiv) "DP" means Delivery Period
- (xv) "BG" means Bank Guarantee
- (xvi) "ED" means Excise Duty
- (xvii) "CD" means Custom Duty
- (xviii) "VAT" means Value Added Tax
- (xix) "CENVAT" means Central Value Added Tax
- (xx) "CST" means Central Sales Tax
- (xxi) "RR" means Railway Receipt
- (xxii) "BL" means Bill of Lading
- (xxiii) "FOB" means Free on Board
- (xxiv) "FCA" means Free Carrier
- (xxv) "FOR" means Free On Rail
- (xxvi) "CIF" means Cost, Insurance and Freight
- (xxvii) "CIP (Destinations)" means Carriage and Insurance Paid up to Consignee Site. 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) Detected
- (xxxi) "Dte. GHS" means Directorate General and Health Services, MOH&FW.
- (xxxii) "CMC" means Comprehensive maintenance Contract (labour, spare and preventive maintenance)
- (xxxiii) "RT" means Re-Tender.
- (xxxiv) GST – Goods and Services tax**

2. Introduction

- 2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section – VI – "List of Requirements", which also indicates, *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 – Instructions from Ministry of Shipping/ Surface Transport (Annexure 1 & 2)
- Section XX – Check List for the Tenderers
- Section XXI – Consignee List

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

9. Amendments to TE documents

- 9.1 At any time prior to the deadline for submission of tenders, the purchaser may, for any reason deemed fit by it, modify the TE documents by issuing suitable amendment(s) to it.
- 9.2 Such an amendment will be published on website.
- 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. The purchaser will respond in writing to such request provided the same is received by the purchaser.

C. PREPARATION OF TENDERS

11. Documents Comprising the Tender

Please refer Clause no. 3 under Section -I

Note: 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

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

- 11.1 The **Two Tender System**, i.e. “Techno – Commercial Tender” and “Price Tender” prepared by the tenderer shall comprise the following:

A) Techno – Commercial Tender (Un priced Tender)

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

B) Price Tender:

The information given at clause no. 11.1 A) ii) & viii) above should be reproduced with the prices indicated. **In case of tenderer quoting for more than 1 (one) item, the prices for the quoted items should be submitted in separate sealed covers.**

NOTE:

1. All pages of the Tender should be page numbered

2. 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 The authorized signatory of the tenderer must sign the tender duly stamped at appropriate places and initial all the remaining pages of the tender. Individuals signing the tender or other documents connected with a contract must specify whether he signs as:
- i. A 'Sole Proprietor' of the firm or constituted attorney of such Sole Proprietor.
 - ii. A partner of the firm, if it be a partnership, in which case he must have authority to quote & to refer to arbitration dispute concerning the business of the partnership either by virtue of the partnership agreement or a power of attorney;
 - iii. Constituted attorney of the firm if it is a company.

NOTE:

1. In case of (ii) above, a copy of the partnership agreement or general power of attorney, in either, case, attested by a Notary Public should be furnished, or affidavit on stamped paper of all the partners admitting execution of the partnership agreement or the general power of attorney should be furnished.
 2. In case of the Partnership firms, where no authority to refer disputes concerning the business of the partnership has been conferred on any partner, the tender and all other related documents must be signed by every partner of the firm.
 3. A person signing 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 Deleted
- 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.
- 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 GST/Sales tax, Custom 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 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 amount of freight and insurance.
- c) the price of goods quoted CIP (at Consignee Site) Basis as indicated in the List of Requirements & Price Schedule;
- d) the charges for Incidental Services including Customs Duty on (CDEC) basis, Custom Clearance, inland transport upto Consignee's site, installation & commissioning, supervision, Demonstration & training, as in the List of Requirements and Price Schedule.
- e) 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;
- f) the charges for Incidental Services, as in the List of Requirements and Price Schedule;
- g) the prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
- h) 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 GST/Sales tax to be paid extra, the same must be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such GST and no claim for the same will be entertained later.

13.5.2 Excise Duty: Detected

13.5.3 GST:

If a tenderer asks for GST/ Sales tax to be paid extra, the rate and nature of GST/Sales tax applicable should be shown separately. The GST/Sales 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 GST /Sales 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: Detected

13.5.5 Customs Duty:

The Purchaser will pay the Customs duty wherever applicable.

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

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) A copy of agreement between the Agent & their principal detailing the terms & conditions as well as services and after sales services as above to be rendered by the agent and the precise relationship between them and their mutual interest in the business.
 - e) Principal / manufacturer's original proforma invoice with the price bid.

15. Firm Price

- 15.1 Unless otherwise specified in the SIT, prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account.
- 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.
- 16.3
- a). If a tenderer, either the Indian Agent on behalf of the Principal / OEM or Principal / OEM itself can bid but both cannot bid simultaneously for the same item/ product in the same tender
 - b). If an agent submits bid on behalf of the Principal / OEM, the same agent shall not submit a bid on behalf of another Principal / OEM in the same tender for the same item / product.

17 Documents Establishing Tenderer's Eligibility and Qualifications

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

17.2 The documentary evidence needed to establish the tenderer's qualifications shall fulfil the following requirements:

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

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

18.1 The tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified by the purchaser in the TE documents. For this purpose the tenderer shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the TE documents to establish technical responsiveness of the goods and services offered in its tender.

18.2 In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the tenderer, the tenderer shall list out the same in a chart form without ambiguity and provide the same along with its tender.

18.3 If a tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

19. Earnest Money Deposit (EMD)

19.1 Pursuant to GIT clauses 8.1 and 11.1(d) the tenderer shall furnish along with its tender, earnest money for amount as shown in the List of Requirements. The earnest money is required to protect the purchaser against the risk of the tenderer's unwarranted conduct as amplified under sub-clause 19.7 below.

19.2 The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation, New Delhi for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. Vague stipulations in the Registration Certificate such as "to customers' specification" etc. will not be acceptable for exemption from furnishing of earnest money. In case the tenderer falls in these categories, it should furnish copy of its valid registration details (with DGS&D or NSIC, as the case may be).

19.3 The earnest money shall be denominated in Indian Rupees or equivalent currencies as per GIT clause 12.2. The earnest money shall be furnished in one of the following forms:

- i) Account Payee Demand Draft or FDR
- ii) Banker's cheque and
- iii) Bank Guarantee

19.4 The demand draft or banker's cheque shall be drawn on any commercial bank in India or country of the 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 **180 days**, the EMD shall be valid for **225 days** from Techno – Commercial Tender opening date. **In case of extension of submission of bid/ tender, the validity of bid security (EMD) may be considered from the original date of submission of 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 and the same should be submitted along with the bid.

20. Tender Validity

- 20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of **180 days (One hundred Eighty 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 Deleted
- 21.3 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.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

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.

- 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

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 Two - Tender system as mentioned in Para 21.6 above will be as follows. 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 The Purchaser's determination of a tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence.
- 27.3 The tenders will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. As prescribed in the TE document. The tenders, which do not meet the basic requirements, are liable to be treated as non – responsive and will be rejected.
- 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) **Deleted**
 - (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) **Deleted**
 - (vi) **Deleted**
 - (vii) Poor/ unsatisfactory past performance.
 - (viii) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
 - (ix) Tenderer has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.
 - (x) **Deleted**

28. Minor Infirmary/Irregularity/Non-Conformity

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

29 Discrepancies in Prices

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

30. Discrepancy between original and copies of Tender

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

31. Qualification Criteria

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

32. Conversion of tender currencies to Indian Rupees

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

33. Schedule-wise Evaluation

33.1 In case the List of Requirements contains more than one schedule, the responsive tenders will be evaluated and compared separately for each schedule. The tender for a schedule will not be considered if the complete requirements prescribed in that schedule are not included in the tender. However, as already mentioned in GIT sub clause 13.2, the tenderers have the option to quote for any one or more schedules and offer discounts for combined schedules. Such discounts wherever applicable will be taken into account to determine the lowest evaluated cost for the purchaser in deciding the successful tenderer for each schedule, subject to tenderer(s) being responsive.

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 Duty Paid (DDP) consignee site basis. The quoted turnkey prices and CMC prices will also be added for comparison/ranking purpose for evaluation.

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

35.1 Further to GIT Clause 34 above, the purchaser's evaluation of a tender will include and take into account the following:

- i) In the case of goods manufactured in India or goods of foreign origin already located in India, GST/Sales tax & other similar taxes & other similar duties, Customs Duties, 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 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 L1 price, in a situation where L1 price is from someone other than on MSE. Such MSEs would be allowed to supply up to 20% of the total tendered value. In case there are more than one such eligible MSE, the 20% supply will be shared equally. Out of 20% of the quantity earmarked for supply

from MSEs, 4% quantity is earmarked for procurement from MSEs owned by SC/ST entrepreneurs. However, in the event of failure of such MSEs to participate in the tender process or meet the tender requirements and the L1 price, the 4% quantity earmarked for MSEs owned by SC/ST entrepreneurs will be met from other participating MSEs.

- 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 on MSE, failing which their tender will be liable to be ignored.

36. Tenderer's capability to perform the contract

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

37. Contacting the Purchaser

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

G. AWARD OF CONTRACT

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

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

39. Award Criteria

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

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

40.1 At the time of awarding the contract, the purchaser reserves the right to increase or decrease by up to twenty five (25) per cent, the quantity of goods and services mentioned in the schedule (s) in the "List of Requirements" (rounded 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.

41. Notification of Award

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

41.2 The Notification of Award shall constitute the conclusion of the Contract. The Notification of Award/ Supply order shall constitute the conclusion of the Contract agreement from date of issue. The Notification of Award/ Supply order will be placed on successful bidder (i.e. manufacturer and /or manufacturer authorised agent). **The manufacturer and /or manufacturer authorised agent shall be jointly and severally liable to perform the all contractually obligations under the agreement**

42. Issue of Contract

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

42.2 **Within thirty 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.

**SPECIAL INSTRUCTIONS TO TENDERERS
(SIT)**

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.

A Preamble

No Change

B TE documents

10. Clarification of TE documents

10.1 During pre bid meeting clarification asked by the bidder will be respond by the purchaser. The Bidder request shall be in writing and submit to HSCC office during pre bid meeting or not later than **three days** from date of pre bid meeting, thereafter the bidder request will be ignore or rejected. The purchaser response (including explanation of the query but without identifying the source of inquiry) will be displayed on the website only www.hsccltd.com.

19. Earnest Money Deposit (EMD)

19.5 The earnest money deposit (EMD)/ bid security shall be valid for a period of two hundred twenty five (225) days from the Techno – Commercial Tender opening date. In case of extension of submission of bid/ tender, the validity of bid security (EMD) may be considered from the original date of submission of bid.

20. Tender Validity

20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of **180 days (One hundred and eighty days)** from the date of Techno – Commercial Tender opening, date prescribed in the TE document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.

E Tender Opening

Tender opening commitee first open envelop, if no bid Security/EMD bid will be rejected.

F Scrutiny and Evaluation of Tenders

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

- (vi) Deleted
- (vii) Deleted
- (ix) Deleted.
- (xi) Deleted.

G Award of Contract

42. Issue of Contract
42.1 Deleted

47. If a firm quoted NIL charges / consideration, the bid shall be treated as unresponsive and will not be considered.

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

1. Application

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

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 thirty (30) 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 30 months 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 without any quantifiable loss to the government including furnishing of consignee wise Bank Guarantee for CMC security as per Proforma in Section XV, the amount of the performance security is liable to be forfeited. The Administration Department may do the needful to cover any failure/default of the supplier with or without any quantifiable loss to the Government.

5.4 In the event of any amendment issued to the contract, the supplier shall, within 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.

7. Packing and Marking

7.1 The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including transshipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.

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

7.3 Packing instructions:

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

- a. contract number and date

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

8. Inspection, Testing and Quality Control

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

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

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

9. Terms of Delivery

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

10. Transportation of Goods

10.1 Instructions for transportation of imported goods offered from abroad:

The supplier shall not arrange part-shipments and/or transshipment without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under CIP (at Consignee site) basis 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. 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.**

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 used during warranty and CMC period.

13. Incidental services

- 13.1 Subject to the stipulation, if any, in the SCC (Section – V), List of Requirements (Section – VI) and the Technical Specification (Section – VII), the supplier shall be required to perform the following services.
- 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 XVII 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 HSCC/Client
- (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) Manufacturer's own factory inspection report;
- (vii) Certificate of origin
- (ix) Port of Loading;
- (x) Port of Discharge and
- (xi) Expected date of arrival.
- (xii) Any other documents require in order to avoid the demurrage on the goods.

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 **3 years** from the date of installation & commissioning followed by a **CMC for a period of 5 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 like mishandling, manufacturing defects etc. will be acceptable.
 - b. Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories and Turnkey work
 - 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 till the completion of the original warranty period of the main equipment.
- 15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.

- 15.7 During Warranty period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the installation for preventive maintenance of the goods
- 15.8 **The Purchaser/Consignee reserve the rights to enter into Annual Comprehensive Maintenance Contract between Consignee and the Supplier for the period as mentioned in Section VII, Technical Specifications after the completion of warranty period.**
- 15.9 The supplier along with its Indian Agent and the CMC provider shall ensure continued supply of the spare parts for the machines and equipments supplied by them to the purchaser for 10 years from the date of installation and handing over.
- 15.10 The Supplier along with its Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipments/machines/goods etc. and shall always give the most competitive price for its machines/equipments supplied to the Purchaser/Consignee.

16. Assignment

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

17. Sub Contracts

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

18. Modification of contract

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

19. Prices

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

20. Taxes and Duties

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

21. Terms and Mode of Payment

21.1 Payment Terms

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

A) Payment for Domestic Goods Or Foreign Origin Located within India.

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

a) On delivery:

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

1. Copy of Purchase order, copy of performance security
2. Consignee receipt in original issued by consignee/ HSCC
3. Invoice in favour of consignee through HSCC
4. Packing list showing NOA
5. Insurance certificate as per tender terms
6. Despatch note issued by HSCC
7. Manufacture's / supplier's warranty certificate
8. Inspection report by HSCC/client

b) On Acceptance:

Balance 20 % payment would be made on submission of following document:

1. Copy of Purchase order, copy of performance security valid upto tender terms.
2. Copy of consignee receipt
3. Final Acceptance Certificate (Installation & commissioning certificate) in original issued by consignee/HSCC on completion of installation & commissioning
4. Insurance certificate as per tender terms.
5. Invoice in favour of consignee through HSCC

B) Payment through LC for Imported Goods:

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

a) On Shipment:

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

- (i) Copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) 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) Copies of packing list identifying contents of each package showing contract number duly signed & stamped by thirty party inspection agency.
- (iv) Insurance Certificate as per tender
- (v) Manufacturer's/Supplier's warranty certificate;
- (vi) Manufacturer's own factory inspection report and
- (vii) Certificate of origin by the chamber of commerce of the concerned country;

- (viii) Inspection report by third party i.e. SGS, Lloyd, Bureau Veritas, TUV
- (ix) Despatch note issued by HSCC.

b) On Acceptance:

Balance payment of 25 % of net CIP price of goods would be made against 'Final Acceptance Certificate' as per Section XVIII to be issued by the consignees to the supplier. The supplier shall submit the original final acceptance certificate to the Purchaser (HSCC India Ltd) who shall issue no objection certificate to the banker for payment through irrevocable Letter of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any.

In case where the installation and commissioning or final inspection and test at site is delayed for any reason for which consignee is responsible, 25% of the contract price shall become payable, after the expiry of six months from the date of arrival of the last consignment at site subject to submission of a bank guarantee by the supplier for the said amount valid initially for the period of six months. The supplier shall get the validity of the bank Guarantee extended for the further period as and when asked for by the purchaser.

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 as indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation.

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

- 22.1 The supplier shall deliver of the goods and perform the services under the contract within the time schedule specified by the Purchaser/Consignee in the List of Requirements and as incorporated in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed not later than the date (s) as specified in the contract.
- 22.2 Subject to the provision under GCC clause 26, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:
 - (i) imposition of liquidated damages,
 - (ii) forfeiture of its performance security and
 - (iii) termination of the contract for default.
- 22.3 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/Consignee in writing about the same and its likely duration and make a request to the Purchaser/Consignee for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/Consignee shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.
- 22.4 When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, inter alia contain the following conditions:
 - (a) The Purchaser/Consignee shall recover from the supplier, under the provisions of the clause 23 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.
 - (b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, GST/ Sales 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, GST/ Sales 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.

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 terminating 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 the Director General (Health Services). The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakhs (Rs. 1,00,000/-)
- 30.3 Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi, India.
- 30.4 Jurisdiction of the court will be form 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 contact 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.

32. General/ Miscellaneous Clauses

- 32.1 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.
- 32.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.
- 32.3 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.
- 32.4 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.
- 32.5 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.
- 32.6 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.
- 32.7 All claims regarding indemnity shall survive the termination or expiry of the contract

SECTION - V

SPECIAL CONDITIONS OF CONTRACT (SCC)

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

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

1. Bidder must take into consideration in its bid, costs to be incurred for any additional work pertaining to civil, Electrical, Plumbing, sanitary, **Radiation protection as per Govt. regulation/or equivalent as per local statutory conditions**, servo stabilisers, U.P.S. etc. if required for successful installation testing and commissioning of the system/ equipment in the "All inclusive lump sum price"/ turnkey work.
2. **The contract will be turnkey work**, bidder must take into consideration in its bid, costs to be incurred for supply of equipment from **ware house to consignee i.e. Medical College Pali, Rajasthan**, installation, commissioning testing, training, packing & forwarding cost, all taxes, all duties, custom clearance charges, loading & unloading charges, site visit charges, Indian agent charges, any other required for successful installation & commissioning of system/ equipment.
3. The pre delivery inspection carried out by HSCC/Client.
4. Purchaser's / consignee's contractual right to inspect before issue despatch note.

A. **For Imported Goods through LC:** To enable HSCC to issue Despatch note, supplier/manufacture is to furnish the following documents in **two sets**:

1. Packing list showing
2. Manufacture's internal test report.
3. Quality Certificate by manufacture
4. Certificate of origin by the chamber of commerce of the concerned country
5. Warranty certificate by manufacture/supplier
6. Third party inspection agency report viz SGS, Lloyd, Bureau Veritas, TUV prior to despatch.
7. Copy of Insurance as per tender document.

No goods (both Indian & Import origin goods) shall be despatched before issue of despatch note issued by HSCC, failing which responsibility (i.e. demurrage charges etc. by the custom department) shall be rest on manufacture/supplier/ its authorised agency in India.

All above documents showing contract number, goods description & LC. The Invoice should in favour of **Medical College at Pali, Rajasthan** through HSCC. After scrutiny, if the documents found in order, **Despatch note** will be issued to the supplier.

B. **For Domestic Goods, including goods already imported** by the supplier under its own arrangement. To enable HSCC to issue Despatch note, supplier/manufacture is to furnish the following documents in **two sets**:

1. Packing list showing NOA
2. Manufacture's internal test report.
3. Quality Certificate by manufacture
4. Warranty certificate by manufacture/supplier
5. Inspection report by HSCC/Client
6. Copy of Insurance as per tender document

No goods (both Indian & Import origin goods) shall be despatched before issue of despatch note issued by HSCC, failing which responsibility shall be rest on the manufacture/supplier.

All above documents showing contract number, goods description. The Invoice should in favour of **Medical College at Pali, Rajasthan** through HSCC through HSCC. After scrutiny, if the documents found in order, **Despatch note** will be issued to the supplier.

5. The performance security shall be valid for a **period two (2) months beyond expire of warranty period. The warranty will two years from date installation & commissioning of equipment.**
6. **The Purchaser reserves the right to ask for a free demonstration/ sample approval of the quoted equipment at a pre determined place acceptable to the purchaser for technical acceptability as per the tender specifications, failing which bid may not be consider.**
7. **Insurance:** For delivery of goods at site, the insurance including transit and installation & commissioning insurance shall be obtained by the supplier in an amount equal to **110%** of the value of the goods from “warehouse to warehouse” (final destination – designated consignee place) on “all risks” basis including war, risks, strikes, erection, storage etc. In any event the Goods are at the Supplier’s risk from ware house to the consignee site for a period including 3 months beyond date of delivery.
8. Deleted
9. Manufacture/supplier/ its authorised agency in India shall entirely responsible for custom clearance/ any statutory compliance etc. however necessary support/document will be provided by HSCC/ **Medical College at Pali, Rajasthan,** if required
10. **Reimbursement of Custom Duty & IGST:** The custom duty & IGST amount as mentioned in the price schedule section –XI (B) (convert in INR at the rate of exchange mentioned in bill of entry) will compared with the actual total custom duty & IGST amount levied by custom department and reimbursed to the supplier as per below:
 - a. If the custom duty & IGST amount as mentioned in the price schedule section –XI (B) is equal to the actual total custom duty & IGST amount levied by custom department, the actual total custom duty & IGST amount levied by custom department shall be prevailed and reimbursed to the supplier in INR accordingly.
 - b. If the custom duty & IGST amount as mentioned in the price schedule section –XI (B) is more than actual total custom duty & IGST amount levied by custom department, the actual total custom duty & IGST amount levied by custom department shall be prevailed and reimbursed to the supplier in INR accordingly.
 - c. If the custom duty & IGST amount as mentioned in the price schedule section –XI (B) is less than the actual total custom duty & IGST amount levied by custom department, the custom duty & IGST amount as mentioned in the price schedule section –XI (B) shall be prevail and reimbursed to the supplier at rate of exchange rate mentioned on the bill of entry in INR accordingly.
11. Manufacture/supplier/ its authorised agency in India shall entirely responsible to safely delivery / handing over the goods from ware house to consignee.
12. GCC Liquidated damages 23.0 may please read as the Liquidated damages as per the provision in the Rajasthan Sate Transparency in Public Procurement Rules 2013 Rajasthan State GF &AR which provide for recovery @ 1% of the Project Cost for delay of every week subject to a maximum of 10% of the award value of the work as per applicable Rule /Guideline.
13. Any Statuary variation i.e. custom duty/IGST/ GST etc. will be allowed to the supplier on submission of documentary proof of statutory variation.
14. Liquidated damages will be adjusted from final payment due to delay on supply, Installation & commissioning.

SECTION - VI

Required Delivery Schedule:

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

- (i) **Delivery Period Equipments: 60 days from date of Notification of Award to delivery at consignee site.** The date of delivery will be the date of delivery at consignee site
- (ii) **Installation & commission Period Equipments:** Installation and commissioning shall be done **30 days** for other Equipments for of receipt of the stores/ goods delivery at site or **30 days** from handing over the site or instruction for installation by HSCC/ Client, whichever is later.

b) For Imported goods directly from foreign through LC:

- (i) **Delivery Period Equipment: 60 days** from date of opening of the final Letter of Credit. The date of delivery will be the date of Bill of Lading / Airway Bill.
- (ii) **Installation & commission Period Equipments:** Installation and commissioning shall be done **30 days** for other Equipments for of receipt of the stores/ goods delivery at site or **30 days** from handing over the site or instruction for installation by HSCC/Client, whichever is later.

The Time lapse on the part of HSCC approval/ **Medical College, Pali, Rajasthan** approval / local statutory approval / issue of CDEC / Despatch note/clearance/ will not be count for delivery period and site not ready/ site not handed over will not be count for installation period.

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:

1. The bidders are advised to ship / deliver the equipments / items, only after obtaining "Permission to Ship" from HSCC in writing. If the bidder ship the equipments / items without obtaining permission, then the cost towards demurrage, warehouse charges etc has to be borne by the bidder only.
2. **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 basis. The shipping arrangements shall be made by the supplier accordingly.

Section - VII
Technical Specifications

SECTION-VII

TECHNICAL SPECIFICATIONS GENERAL TECHNICAL SPECIFICATIONS

GENERAL POINTS:

1. Warranty:

- a) **Three Years Comprehensive Warranty** from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/Institution/Medical College.
- b) 98% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.
- c) All software updates should be provided free of cost during Warranty period.

2. After Sales Service:

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

3. Training:

On Site training to Doctors/ Technicians/ staff is to be provided by Principal/ Indian Agents (if they have the requisite know-how) for operation and maintenance of the equipment to the satisfaction of the consignee.

4. Annual Comprehensive Maintenance Contract (CMC) of subject equipment with Turnkey:

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

Turnkey:

Turnkey is indicated in the technical specification of the respective items, wherever required. The Tenderer shall examine the existing site where the equipment is to be installed, in consultation with HOD of Hospital/Institution/Medical College concerned. Turnkey details of each Hospital/Institution/Medical College are given at the end of Technical Specification. The Tenderer to quote prices indicating break-up of prices of the Machine and Turnkey Job of each Hospital/Institution/Medical College. **The Turnkey costs may 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.

- Note 1:** Tenderer's attention is drawn to GIT clause 18 and GIT sub-clause 11.1(c). The tenderer is to provide the required details, information, confirmations, etc. accordingly failing which it's tender is liable to be ignored.
- Note 2:** General: Bidders are requested to make sure that they should attach the list of equipments for carrying out routine and preventive maintenance wherever asked for and should make sure that Electrical Safety Analyzer / Tester for Medical equipments to periodically check the electrical safety aspects as per BIS Safety Standards IS-13540 which is also equivalent to IEC electrical safety standard IEC-60601 is a part of the equipments. If the Electrical Safety Analyzer/Tester is not available they should provide a commitment to get the equipments checked for electrical safety compliance with Electronic Regional Test Labs / Electronics Test and Development Centres across the country on every preventive maintenance call.
- Note 3:** OPTIONAL ITEMS: Deleted.
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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

Bidder minimum Qualification:

1. The manufacturer or it's authorized Indian Agent has supplied Medical College Equipment in India during last five years from the date of tender opening. In support of this, copy of latest purchase order & installation report/ service report is to be submitted with performance statement.
2. Tenderer shall submit audited balance sheets for three years i.e. 2015-16, 2016-17 & 2017-18. Annual Turnover statements should be certified by chartered accountant bearing their membership No.

PROFORMA 'A'
PROFORMA FOR PERFORMANCE STATEMENT

Tender Reference No. : _____
 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)**	Mobile number , name & Email ID of equipment user person
				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

Note:

- 1. The purchase order mentioned in the above format only will be consider for evaluation.**
- 2. The purchase order shall be in accordance to section -IX in order to qualify the qualification criteria.**
- 2. The original copy of latest purchaser order along with End user performance certificate / installation certificate is to be colour scan and upload accordingly.**
- 3. Bidder shall provide Mobile number, email ID & name of person who has issue this End user performance certificate / installation certificate in order verify the authenticity of the same, failing which unable to verify the same from end-user and entire responsibility shall rest on bidder.**

Section – X

TENDER FORM

Date_____

IFB no. HSCC/PUR/PALI/04 dated 15.02.2019

Item no.

We, the undersigned have examined the above mentioned TE document, including all amendment/corrigendum issued till opening of bid (*if any*), the receipt of which is hereby confirmed with acceptance of all the terms & conditions of TE document including all amendment/ corrigendum issued till opening of bid. We now offer to supply and deliver_____ (*Description of goods and services*) in conformity with your above referred document for the sum as shown in the price schedules attached herewith and made part of this tender. If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery. 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 fully agreed to the all terms and conditions specified in above mentioned TE document, including amendment/ corrigendum issued till opening of bid and withdrawn all conditional terms if anywhere mentioned in the our bid. Whenever there is a conflict, the tender form acceptance shall prevail.

We hereby certify that all information and documents submitted by us in this tender are true to the best of our knowledge and belief and that nothing material has been concealed. We are solely responsible for its accuracy. In case, at any stage, any of the information/ document is found to be false, the Purchaser shall have full right to reject my bid/ cancel the purchase order and / or stop payment / recover the liabilities, if any from our balance payment / performance security etc.

Signature:

Name

Designation

Seal :

(On the letter head of the company)

- **TENDER FORM shall be on the letter head of the bidder and should be as per the above format only. The original copy is to be scan & upload.**

SECTION - XI PRICE SCHEDULE

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

	Name of Bidder		IFB no.			
	Name of Manufacturer		Name of Item			
	Model no.		Item no.			
Sr no.		Qty	Unit cost Rs.	GST [% age)	GST [Amount] Rs.	Total cost with GST Rs.
		A	B		C	A x (B+C)
1	Ex - factory/ Ex -warehouse /Ex-showroom /Off - the shelf	0	0.00	0.00	0.00	0.00
2	Packing and Forwarding charges	0	0.00	0.00	0.00	0.00
3	Inland Transportation, warranty cost & Insurance for a period including 3 months beyond date of delivery, loading/ unloading and Incidental costs till	0	0.00	0.00	0.00	0.00
	Total Bid Price inclusive of all cost warehouse to Consignee site as per scope of work mentioned in the TE document & inclusive of warranty period (Rs.)		0.00	0.00	0.00	0.00
Total Bid Price inclusive of all cost in words (Rs.)						
<p>1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.</p> <p>2. The charges for Annual CMC after warranty shall be quoted separately as per Section - XI - Price Schedule C</p> <p>3. Bidder shall filled all cost i.e. a,b,c... failing which it will presumed that the same is inclusive in the total price and nothing will be paid on this account extra.</p>						

SECTION - XI PRICE SCHEDULE

B) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

Item no.		Equipment Model no.		Name of Bidder		IFB NO.							
Name of Item		Equipment Make		Name of Manufacturer		Date							
1	2	3	4	5				6					
Item no.	Name of item	Country of Origin	Quantity (Nos.)	Price per unit (Currency)								Total bid Price inclusive of all cost warehouse to Consignee site as per scope of work mentioned in the TE document & inclusive of warranty	
				FOB/FCA price at port/ airport of Lading	Carriage & Insurance (port of loading to port of destination) and other Incidental costs	Third party Inspection agency i.e. LLOYDS/SGS /Bureau Veritas / TUV charges for pre delivery inspection at manufacturer warehouse**	CIP (name place /port of destination in india)	Full Custom duty amount with IGST**	Custom clearance charges, 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**	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site **	Total INR amount		
				(a)	(b)	(c)	(d) = a+b+c	(e)	(f)	(g)	h = (f+g)		
				Foreign Currency					INR				(d+e) x 4
			0	0.00	0.00	0.00	0.00	0.00	₹ 0.00	₹ 0.00	₹ 0.00	0.00	₹ 0.00
** To be paid in Indian Currency (Rs.)			Name of Foreign Currency for (a,b,c & e)										
# In case Full Custom duty & IGST amount not mentioned in the above format by the tenders, it will presumed that the same is inclusive in total price and nothing will be paid extra to the supplier on this account. The custom duty & IGST will reimbursed only as per SCC clause no.10													
In words: _____													
Note: -													
1. If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail.													
2. The charges for Annual CMC after warranty shall be quoted separately as per Section – XI – Price Schedule C													
3. The Tenderer will be fully responsible for the safe arrival of the goods at destination (consignee site) in good condition as per terms including custom clearance, payment to custom duty to the custom department, insurance etc.													
4. Bidder shall filled all cost i.e. a,b,c... failing which it will presumed that the same is inclusive in the total price and nothing will be paid on this account extra.													
Indian Agency Commission -		0.00%		FOB/FCA Inclusive in above price									

SECTION – XI PRICE SCHEDULE

C) ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD

Item no.	Name of Bidder					IFB No.			
Item Name	Name of Manufacturer					Model no.			
Qty. (a)	Annual Comprehensive Maintenance Contract Cost for each Unit year wise* Rs.					Total Annual CMC Cost for each unit for 5 years (Rs.) g= b+c+d+e+f	GST/Sales Tax/service tax per unit		Total Annual CMC Cost for all unit for 5 years with GST Rs. (h x a)
	1 st	2 nd	3 rd	4 th	5 th		GST %	GST Amount Rs. (h)	
	b	c	d	e	F				
0	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	₹ 0.00	0.00%	₹ 0.00	₹ 0.00

* After completion of Warranty period

- NOTE:-**
- In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.
 - 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).
 - The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. 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.
 - Cost of CMC will be added for Ranking/Evaluation purpose.
 - The payment of CMC will be made as per clause GCC clause 21.1 (D).
 - 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.
 - All software updates should be provided free of cost during CMC period.
 - The stipulations in Technical Specification will supersede above provisions
 - 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.
 - Bidder shall mentioned present rate of GST, failing which it will presumed that the same is inclusive in the total price and nothing will be paid on this account extra.

SECTION – XI PRICE SCHEDULE

D) PRICE SCHEDULE FOR TURNKEY

Name of Bidder				Name of Manufacturer		
Item no.				Equipment Model no.		
Name of Item				IFB no.		
Name of item	Brief of Turnkey works	No of Turnkey works	Turnkey cost per unit Rs.	GST/Sales Tax/service tax		Total Turnkey cost included GST Rs.
				%	Amount Rs.	
		a	b		c	(b+c) x a
		0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00

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. 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
5. In case of discrepancy between unit price and total prices, THE UNIT PRICE shall prevail.

Section XI - Price Schedule

E -Price Schedule for Optional items /Spare Parts/ Consumables

Name of Bidder				Name of Manufacturer				
Item no.				Equipment Model no.				
Name of Item				IFB No.				
Sr no.	Name of item	Name of Part	Qty	Unit cost (Rs.)	GST		Unit cost included GST (Rs.)	Total cost included GST
					%	Amount (Rs.)		
			a	b		c	d= b+c	d X a
1			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
2			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
3			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
4			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
5			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
6			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
7			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
8			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
9			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
10			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
11			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
12			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
13			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
14			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
15			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
16			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
17			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
18			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
19			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00
20			0	₹ 0.00	0.00%	₹ 0.00	₹ 0.00	₹ 0.00

1. Bidder shall mentioned present rate of GST, failing which it will presumed that the same is inclusive in the total price and nothing will be paid on this account extra.

SECTION - XII

Deleted

SECTION - XIII
BANK GUARANTEE FORM FOR EMD

To,

HSCC

IFB no. HSCC/PUR/PALI/04 dated 15.02.2019

Name of Item

Item no.

BG no. with date

Amount Rs.

Validity

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

Ref. **IFB no. HSCC/PUR/PALI/04 dated 15.02.2019**

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 and having the power of attorney to legally bind the manufacturer.
2. Original letter may be sent.

Note:

- **This FORM shall be on the letter head of the manufacturing firm and duly signed and stamped by competent authority and it should be as per the above format only. The original copy is to be colour scan & upload accordingly.**
- **If bidder is self manufacturer than they will filled this form as a self manufacturer.**
- **If bidder is not self manufacturer, they get this FORM from manufacturer and submit accordingly.**
- **Official Email ID of manufacturer form issuing authority shall be provided by the bidder.**

SECTION – XV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY

To

Medical College, Pali, Rajasthan

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 (thirty) 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**

Deleted

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

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

1	2	3	4					5
Sr. no.	Name of Item	Qty	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise*. Rs.					Total Annual Comprehensive Maintenance Contract Cost for 5 Years Rs. [3 x (a+b+c+d+e)]
			1 st	2 nd	3 rd	4 th	5 th	
			a	b	c	d	e	

- a) 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: _____

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 : _____
- 4) Name of the item supplied : _____
- 5) Quantity Supplied : _____
- 6) Date of goods deliver at Consignee site :-----
- 7) Date of goods take over by HSCC at site :-----
- 8) Date of takeover by the Consignee : _____
- 9) Name and designation of Authorized Representative of Consignee : _____
- 10) Signature of Authorized Representative of Consignee with date : _____
- 11) Seal of the Consignee : _____

Final Acceptance Certificate [Installation, commissioning & Handing over]
(To be given by consignee's authorized representative)

The following store (s) has/have been installed & commissioned in good working satisfactory condition:

1. Contract No. & date :
2. Supplier's Name :
3. Consignee's Name & Address :
4. Name of the item supplied :
5. Date of instruction for Installation & commissioned by HSCC/Client :
6. Installation & Commissioned completion date :
7. Name consignee /HSCC Representative :
8. Signature of consignee/HSCC Representative :
9. Seal of the Consignee :

SECTION - XIX
AFFIDAVIT/UNDERTAKING

IFB no. HSCC/PUR/PALI/04 dated 15.02.2019

We have read and understood the all instructions and all terms and conditions contained in the TE document.

We are fully agreed all the terms and conditions of TE document including SIT, SCC, amendment/ corrigendum, technical specification issued till opening of bid. In case, anywhere any conditional terms found in our bid, the same shall be treated as deleted/cancelled/ withdrawn from our bid. Whenever there is a conflict, the acceptance of all terms and conditions of TE document in the tender form/ bid form / affidavit shall prevail only.

We (manufacturer and /or manufacture authorised agent) shall jointly and severally liable to perform all contractual obligations under the agreement.

We (manufacturer and /or manufacture authorised agent) confirm that we do not stand deregistered/ banned/ blacklisted/ debarred by any Govt. Authorities in India.

We hereby confirm and 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.

We hereby certify that all information and documents submitted in this tender are true to the best of our knowledge and belief and that nothing material has been concealed/ misrepresented. We are solely responsible for its accuracy.

In case, at any stage, any of the information/ document is found to be false/ misrepresentation, we (manufacturer and /or manufacture authorised agent) shall be fully liable and the purchaser/HSCC shall have full right to reject my bid/ cancel the purchase order and / or stop payment / recover the liabilities/ loss if any, from our balance payment /EMD/ performance security etc. We are liable for any action as deemed fit by the purchaser/HSCC in addition to forfeiture of the earnest money/ performance security.

We are fully agreed all the terms and conditions of TE document including amendment/ corrigendum /technical specification issued till opening of bid. In case, anywhere any conditional terms found in our bid, the same shall be treated as deleted/cancelled/ withdrawn from our bid. Whenever there is a conflict, the acceptance of all terms and conditions of TE document in the tender form/ bid form / affidavit shall prevail only.

Signature:

Name:

Designation

Seal:

Note:

- **Original copy of Affidavit is to be submitted as instructed in the tender.**
- **The original document duly signed and stamped is to be scan & upload**
- **To be submitted on non-judicial stamp paper of Rs. 10/- duly certified by Public Notary**

Section - XXII

BID SUMMARY SHEET

A. If EMD/bid security in the form of Bank Guarantee:

Item no.	BG no.	Date	Amount Rs.	Name of Bank	BG Validity
15	XXXX	XX.XX.2014	XXXX	State Bank of India	XX.XX.2015

- **Name of Bank Manager who has issued BG** : **Ram Singh**
- **Mobile number of Bank Manager** : **1234567890**
- **Email ID of Bank Manager** : **ram@sbi.com**

Sr. Item no	Quoted qty.	Name of Bidder	Name with full Address of Manufacture	Model no.
15	5	Rama	Sterling	124D

Signature:
Name:
Designation
Seal:

Note: Bidder Summary sheet shall be filled in all respect.

Section – XXIII

Power of Attorney

IFB no. HSCC/PUR/PALI/04 dated 15.02.2019

I -----, *Sole Proprietor' of M/s -----, or Board of Director of M/s -----* hereby authorised *Sh. -----, -----* to sign all tender documents, participate in negotiations, make correspondence and sign all documents to the client and government statutory bodies for approval take decisions.

He hereby authorized to sign and execute the agreement etc. for the works and all other documents relating to the works awarded or being executed by *M/s -----*

Signature of *Sh. -----, -----* is attested below.

Sole Proprietor/ Board of Director
Sealed

Sh. -----
Designation

- **Power of attorney is to be signed by competent authority i.e. Sole Proprietor of the firm or Board of Director of the company.**
- **The original document duly signed and stamped is to be scan & upload.**

Section – XXIV

Bidder Information

Bidder correspondence Address :

Bidder correspondence Email ID :

Bidder contact number :

Bidder contact person :

Manufacture correspondence address :

Manufacture correspondence Email ID :
(who issued Manufacture authorisation form)

Manufacture contact number :

Signature:

Name:

Designation

Seal:

Note: All above information are mandatory.

Section - XXI
Consignee List

Consignee Code	Medical Institutions	Contact Address.
	Medical College at Pali, Rajasthan	Medical College at Pali, Rajasthan

No. P-45021/2/2017-B.E.-II
Government of India
Ministry of Commerce and Industry
Department of Industrial Policy and Promotion

Dated 15th June, 2017
Udyog Bhawan, New Delhi

To

All Central Ministries/Departments/CPSUs/All concerned

ORDER

Subject: Public Procurement (Preference to Make in India), Order 2017

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.

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

.....Contd. p.2/-

'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.

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 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 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 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 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.
 - 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.
 - 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.
- 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 than 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

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

Item no 1, Dept of Pathology Lab. 3 part hematology analyzer

1. It should be 3 part fully automatic hematology analyzer with atleast 18 parameters(WBC, RB,Hb,HCT,MCV,MCH,MCHC,RDW,PLT,MPV,PCT,PDW,Gr%,Gr#(Neut# Neut#%),Ly%,Ly#,MID/MIX cell with three histogram. Histogram interpretation booklet of the same company for model quoted should be provided.
2. Method – Principle of cell counting by impedance or equivalent and the instrument should have cyanide free SLS -Hb/colorimetric method.
3. Instrument should have dual chamber for RBC& Platelets, WBC& Hb.
4. Sample volume range less than 100µl whole blood.
5. Through put 60 samples/ hrs. Use only 3 reagents diluents, lyse ,cleaner with automated cleaning of sample probe and reagents should be in compact pack without the limitation of any card system
6. It should have inbuilt printer. Facility for external printer should be provided with appropriate desktop.
7. It should be US-FDA approved / European CE with notified body certified
8. The firm should have their own quality control and calibrators and extensive QC features
9. Firm must have various zonal based engineer in Rajasthan. Service should be provided within 24 hrs breakdown of the machine. List of engineer together with their contact numbers working in Rajasthan only should be given.
10. Branded 1 KVA UPS with battery with half an hour backup should be supplied with equipment.
11. Firm should submit list of user of quoted model in Rajasthan /North India particularly from NABL accreditation lab performance report can also be considered.
12. It should have LAN/LIS/RS 232 port for data transmission
13. Equipment should be pest proof by arranging suitable cabinet made from acrylic glass with ventilation.
14. One 1.50 ton split AC with one year warranty should be provided with the instrument.
15. Cost of reagents of start up, shutdown per cycle for 30 samples per day considering 25 working days in a month of three years shall be quoted with the equipment which will account for L1 Estimation. The order will be given of machine only with keeping the rates of consumables freezed for 3 years which will be valid for Rate contract purpose. The estimated cost of tender is on basis of equipment only
16. Cost of controls and calibrators should be given separately in financial bid. It shall be considered along with cost of equipment. If one level of control run per day.
17. Three years warranty followed by 5 years CMC including UPS, computer & printer as per tender terms
18. Free reagents for start up of standard packs size should be provided, with a set of controls and calibrator with the equipment at time of installation.
19. Operation manual and service manual must be provided at the time of installation.
20. Installation, commissioning and training to technical staff will be free of cost
21. A blood mixer/ roller of three rollers should be provided with the equipment.
22. Firm should provide 500 EDTA vacuum blood collection tubes with the equipment.

Item no2, Dept of Pathology Lab. 5 part hematology analyzer

23. It should be 5 part Differentail hematology analyzer based on fluorecence flow cytometry or equivalent stain.
24. For RBC and platelet measured by Impedance / hydrodynamic focusing DC detection method or equivalent
25. Hb should be measured by cyanide free SLS method/ colorimetric method
The instrument should have atleast 28 parameters reported.
WBC,WBC,RBC,HGB,HCT,MCV,MCH,MCHC,RDW-SD,RDW-CV,PLT,NEUT% ,LYMPH%,MONO%,EOS%,BASO%, NEUR#, LYMPH#,MONO#,EOS#,BASO#,PDW,MPV,PCT,P-LCR,NRBC%, IG#IG%, three HISTOGRAMS- WBC,RBC,PLT and TWO/SCATTERGRAMS with malaria parasite flagging.
26. Through put 60 or more sample /hour. It should have manual and autoloader mode with barcoding
27. Sample volume ≤100µl. It should have clot detection facility.
28. Instrument should be US-FDA approved/ European CE with notified body.
29. Instrument should be have comprehensive information processing system using inbuilt/ separate branded computer system of latest technology with 14-15” monitor and laser printer with window 7 based software.

30. It should have LAN/LIS and RS 232 port.
31. Company should have its own calibrator, control and manufacturing unit
32. Minimal Linearity:-
 - a. WBC - 0 to 4 lacs or more
 - b. PLT - 0-50 lacs & for NRBC over 500 per 100WBC
33. Company should mention the Name, Employment number of service engineer locally based in various cities of Rajasthan with their contact number. Engineer should be available within 24 hours after breakdown of the machine.
34. Company should quote cost of reagents, controls, calibrator other frequently used spare parts in Financial Bid that shall be freezed for minimum 3 years (BOQ and in hardcopy).
35. Firm should provide calibrator and firm should do calibration of the equipment once in a year free of cost during guarantee period as per NABL guidelines.
36. Should have extensive QC features with option for online QC.
37. One standard pack size start up reagent kit with Tri- level control should be supplied along with equipment.
38. Suitable UPS with 30 min. backup with batteries should be supplied along with the instrument and firm should maintain UPS & its batteries in warranty and CAMC period & A blood mixer roller should be provided with the instrument.
39. Firm should provide 1000 EDTA vacuum blood collection tubes with the equipment.
40. Company should provide 3 year warranty and 5 year of CAMC
41. All items / Spare parts required for functioning of the equipment during guarantee and CAMC priod shall be provided with on extra cost.
42. Firm should mention all pre installation requirements in technical bid, commissioning and training to technical staff will be free of cost.
43. Equipment should be pest proof by arranging suitable cabinet made from acrylic glass with ventilation.
44. Cost of reagents of start up, shutdown per cycle for 30 samples per day considering 25 working days in a month for three years shall be quoted with the equipment which will account for L1 Estimation. The order will be given of machine only with keeping the rates of consumables freezed for 3 years which will be valid for Rate contract purpose. The estimated cost of tender is on basis of equipment only

Item no. 3, -20 deep freezer Microbiology dept

Sr No	Desired bid's Technical Specification Point wise
	<p>Shall be Upright, with capacity of 250 liters or more</p> <p>The Compressor shall be ½ to ¾ horsepower</p> <p>Freezer must have one lockable insulated solid door</p> <p>Freezer must come standard with three/four drawer or baskets and two pull cover drawers/baskets</p> <p>Freezer must have a keyed on/off switch.</p> <p>Freezer must have interior lighting with external on/off switch.</p> <p>Shall be Non-CFC foamed-in-place polyurethane insulation or better technology</p> <p>Referigeration material shall be non CFC/HCFC</p> <p>Freezer must have manual defrost</p> <p>Minimum Temperature required is minus 20 centigrade</p> <p>Freezer must have a bottom mounted compressor or back side of the system</p> <p>Freezer must have four casters standard which shall be supplied with freezer</p> <p>Automatic voltage compensator responds to high and low voltages</p> <p>Shall have Powder coat paint for a durable surface</p> <p>Service valves provided to allow easy recovery of refrigerants and field servicing</p> <p>Controller must monitor in one degree C increments, with digital display</p> <p>Freezer must have digital temperature control with hi/lo audible and visual temperature alarms</p> <p>Freezer must have mute button for alarms</p> <p>Freezer must have low battery alarm</p> <p>Freezer must have rapid freeze feature for fast cool down</p> <p>Freezer must have ambient temperature display</p> <p>Both visual and audible alarms must alert operator of over and under temperature, power fail, door ajar, and low battery condition</p> <p>Shall be CE Marked and certificate shall be enclosed</p> <p>The calibration shall be as per NABL norms each year for 5 years.</p>

Shall be supplied with suitable stabilizer.
 The preventive maintenance shall be done quarterly till the time of warranty.
 Shall be installed as required by the end user.

Item no. 4, Automated Blood Culture System

Automated Blood Culture System

An automated modular system for culturing of the bacteria, yeast, fungi and Mycobacteria from all clinical samples. The system should be able to manage the bottle handling functions such as loading and unloading bottles and regulates the temperature of the system.

It should have minimum 120 positions in one system.

Each module should be connected to each control module. The system should be configured independently to test blood culture and body fluid cultures.

The system should provide basic data management functions for patient demographics or culture information. Reports can be generated based upon data entered into customizable fields or instrument-generated data. reports are customizable with sorting and printing capabilities.

Should be capable of detecting delayed vial with normal consumables.

Media should come in non-breakable plastic bottles for laboratory safety.

Should have special media for pediatric patients.

Should have special media to neutralize antibiotic present in blood sample.

Should come with Touch Screen Monitor with intuitive icon for easy operation.

It should have an interface to the Laboratory Information System (LIS) to eliminate manual data entry

Reporting can be customized and scheduled to print at a pre-determined time.

The system should have automated QC facilities

The system should have separate media for pediatric samples

System should allow to monitoring of graphs for each and every position

Fully automated identification & sensitivity test

System must work on colorimetric technology for identification and susceptibility testing.

The system must have the capacity to accommodate a minimum of 60 tests (either 60 ID and/or AST tests), at any time.

The system must have a bar code scanning device for test card identification and specimen number entry.

The system must have separate Identification and antibiotic susceptibility testing cards for Gram negative, Gram positive and Yeast and identification for Neisseria and Haemophilus, Anaerobes

The System should have database of at least 2000 reference phenotypes.

The system should provide highest discrimination between species

The system must have separate cards for Identification and Susceptibility testing

The reagent cards should be automatically sealed by the system to prevent any biohazard

To reduce extra hands on steps the system should be able to automatically eject cards after completion of test.

The software must have the following capabilities

- Workflow management.
- Data storage.
- Test quality control management.
- Test result validation capability and ability to detect antibiotic resistant bacteria.

The system must have the ability to check the quality of test results and stop for validation by Microbiologist

The system software must have the ability to alert to any unusual resistance mechanism

The system must have no additional reagent costs.

The supplier must state performance of identification cards

The company should provide free software upgrade till the CMC Period

System should be US FDA

The system must be supplied with online UPS of 2 hours backup and 2 split AC of 2 tonnee each

The calibration should be in accordance to NABL till the CMC period.

The rates of consumables shall be quoted which will be freezed for 3 years.

Item no 5, Dept of pathology, micro, forensic Binocular microscope

Binocular Microscopes (With Inbuilt Light Source)

The Stand shall be made of antirust and antibacterial materials.

All optical components should be made of lead free optical glass and are antifungus coated.

It should have corrected eyepieces with dual diopter adjustment

The **Viewing Head shall be at 45°** inclined and 360° rotatable with IPD 54 – 74 mm

The Objectives shall be DIN Semi Plan Achromatic 4X ,10X 40X & 100X Oil and anti fungus treated

The Eyepiece with guard shall have WF10X and FN 18 mm

It shall have LED Illumination of long working hours

It shall have Coaxial Coarse and fine focusing
The dimension of Mechanical Stage shall be 130-135(W) X 120-125 (D) mm with low drive control Stage movement (XY direction)
 Quadruple revolving nose piece shall be there.
It shall have Abbe condenser with N.A. 1.25 , with built-in daylight filter and Aperture iris diaphragm
 Products should be **CE and USFDA**
 Shall be supplied with Accessories, dust cover, power cord and Wooden box/cabinet for each microscope.
 Shall run on Power 220 V/ 50 Hz
 Demonstration of the equipment may be asked prior to opening of financial bid

Item no 6, Biosafety cabinet

1. The Bio safety cabinet should be Type A2 in which 70% Air should be re-circulated and 30% of the air should be exhausted
2. The Bio Safety Cabinet must include two DC motors and the motor must automatically adjust the airflow speed.
3. The cabinet must use a pressure sensor to detect pressure drop across the supply filter.
4. The microprocessor must display the inflow and down flow air velocities in real-time on an LED display to ensure the user knows whether or not the cabinet is working under safe operating conditions.
5. The front window must be made of laminated safety glass to ensure containment of potentially hazardous samples
6. All interior and exterior parts must be painted or smooth to ensure no risk of cuts to users or maintenance personnel.
7. The front of the cabinet must be angled 10° to help minimize glare on the window to the user, and to ensure that the user's posture is comfortable during a working session.
8. The cabinet noise level must be less
9. The Biosafety Cabinet should have microprocessor controller and same must be located on a slanted front panel
10. The interior of the front window must be accessible for cleaning without requiring the user remove or support the window.
11. The cabinet must automatically reduce fan/blower motor speed to 30% when the front window sash is in closed position to ensure reduced energy consumption when the cabinet is not in use.
12. In order to provide maximum effectiveness, efficiency and safety to laboratory Personnel, UV light must present
13. The Cabinet should have provision to fit taps for Vacuum, Water and Non Combustible Gas. Taps should be quoted as optional items
14. The Bio safety Cabinet should be NSF certified/ EN 12469 certified.
15. The Bio safety cabinet should incorporate HEPA filter of the class H 14 EN 1822 or better and having minimum efficiency of 99.995% at 0.3 µm particle size.
16. Approximate Dimension Exterior 1500 H x 1300 W x 800 D; Interior 800 H x 1200 W x 500 D
17. Ventilation System Exhaust and Inflow air volume approx 300-350 CFM
18. The cabinet Should be provided with Microprocessor controller and large LED display for inflow and Down flow air velocity and hours of operation, Audible and visual Alarms for HEPA filter failure, blower failure, airflow speed failure, Incorrect window position.
19. The cabinet should be provided with fixed / adjustable Height Stand, UV Light and one set of detachable arms rest and one / two electrical outlet.
20. The Drain Pan of the BSC should be made of Stainless Steel.
21. The Bio safety cabinet should have dual side wall with negatively pressurized interstitial space. Bio Safety Cabinet with single glass side walls should not be quoted.

Item no.7, Microbiology charts

- A. Models: (6 models) (each 6000 Rs)
 - Pox Virus
 - Rabies Virus
 - Influenza Virus
 - Bacteriophage Adeno Virus
 - HIV (Human Immunodeficiency Virus)
 - Structure of Bacteria
- B. Museum Specimens (18 specimen)(each 6500 rs)
 - Ascaris lumbricoides- Adult male
 - Ascaris lumbricoides- Adult female
 - Enterobius vermicularis- Adult worm

Trichuris trichiura – Adult male
Trichuris trichiura – Adult Female
Taenia saginata – adult worm
Taenia solium – adult worm
Hydatid cyst Capsule
Round worm (Ascaris lumbricoides)
Hook worm (Ancylostoma duodenum)
Fasciola hepatica
Amoebic ulcer of intestine
Hydatid cyst
Filarial scrotum
Kala-azar spleen
Amebic Liver abscess
Neuro Cysticercosis
Amoebic Liver abscess

C. List of Charts (36 charts) (size 20 x 26 laminated on ply/board)(each 2000)

- Life cycle of Plasmodium vivax
- Life cycle of Plasmodium falciparum
 - Microscopic picture of Different stages of Malaria parasites
 - Life Cycle of Brugiama layi
 - Life cycle of Echinococcus granulosus
 - Life cycle of Giardia lamblia
 - Life cycle of Leishmaniadonovani
 - Life cycle of Loa loa
 - Life cycle of Diphylobothrium latum
 - Life cycle of Mosquito
 - Life cycle of Schistosomes
 - Life cycle of W. bancrofti
 - Life cycle Free living amoeba
- Life cycle of Ascaris lumbricoides
- Life cycle of Hook worms
 - Life cycle of Trichinella spiralis
 - Life cycle of Trichomonas vaginalis
 - Life cycle of Trichuris trichiura
 - Life cycle of Trypanosoma brucei
 - Life cycle of Trypanosoma cruzi
 - Life cycle of Toxoplasma gondii
 - Life cycle of Taenia solium
 - Life cycle of Taenia saginata
 - Life cycle of Entamoeba histolytica
 - Life cycle of Strongyloides stercoralis
 - Life cycle of Enterobius vermicularis
 - Life cycle of Fasciolopsis buski
- Malaria blood picture
 - Japanese B Encephalitis virus Life cycle
 - Antigenic shift & Antigenic Drift in Influenza Virus
- Biochemical tests Chart showing biochemical reactions for identification of bacteria
- Demonstration of Pigment production of bacteria
 - Pneumococcus – characterization
 - Staphylococcus- characterization
 - Lactose fermenter & nonlactose fermenters on CLED & MacConkey agar Blood agar-
- Hemolysis by different Streptococci
- D. Portraits (8 portraits) (each 5000)(26”x 20”)
- Alexander Fleming
Antony Van Leeuwenhoek
Joseph Lister
Kohler & Milstein
Louis Pasteur

Robert Koch
 Ronald Ross
 Paul Ehrlich

Item no 8, Dept of Microbiology Lab freezer

Shall have Capacity 400 liters or more
 Temperature range shall be 2 to 8 degrees
 Shall have adjustable shelves.
 Body shall be rust free and shelves shall be unbreakable
 Shall have control panel with temperature alarm
 Interior lighting and defrosting mechanism
 Electronic automatic temperature control
 Compressor unit shall be hermetically sealed with **guarantee for atleast 5 years**
 Shall have CE/ISI mark
 All electric peripherals like voltage stabilizer shall be supplied with system

Item no 9, Elisa reader and washer

Elisa Reader

1. Filter based ELISA reader with halogen lamp as light source and silicon photodetectors .
2. Should have a linear measurement range of 0 to 6 Abs.
3. Should be compatible to wavelength range from 340 to 850nm.
4. Should have a photometric accuracy of $\pm 2\%$ or better.
5. Should have a resolution of 0.001Abs.
6. Should have variable speed plate shaking capability.
7. Should have easy access 8 position filter wheel -
8. Machine should be supplied with 4 standard filters of User choice.
9. Should have automatic filter selection option.
10. Should have automatic calibration before each reading.
11. Should be able to read 96 well format in less than 10 seconds.
12. Capable of doing multi standard tests and controls.
13. Should be capable of reading U, V and flat type wells.
14. The instrument should run in stand-alone mode OR with computer & software controlled.
15. System should have USB port for external printer connectivity option for the data printout.
16. Software CD should have unlimited user license to analyze the data in different user / computer systems.
17. Instrument should be either European CE mark OR IVD / USFDA

Data Analysis Software :

- Analysis software should be supplied with the instrument and has unlimited user system license.
- Software should have Inbuilt calculations, such as Blank Subtraction, Quantitative Curve Fit, Qualitative Classification, Spectral Analysis and Kinetic Calculations, as well as a comprehensive reporting tool.
- Both measured and calculated data can also easily be exported to other systems like Microsoft Excel for further data handling.
- User should be able to load the software in to multiple computer systems for data analysis.
- Software should have option for area selection i. e different protocols at different area of the same plate.
- Database based software to run backups of all data, restore back up data (in case of hardware failure of original computer).
- Supplier should supply for the following accessories:- UPS with 2 hours backup and Computer with laser Printer

Technical Specifications for Washer:

- Semi – automatic Micro plate ELISA washer with co-axial wash heads for excellence washing & can be switched between 8 & 12 way wash heads.
- Should be supplied with at least 4 standard program cards (1-4 washing cycles) & one programmable card for user defined program.
- Dispensing precision should be at least 5%
- Should be supplied with one wash bottle & one waste bottle of 2 lit capacity each
- Residual aspiration volume < 5 μ l

Fully automatic Cryostat

1. The instrument should be open top free standing instrument and fully automatic.
2. Should have heavy duty rotary Microtome bearing in stainless steel
3. Should be suitable for sectioning of all types of frozen tissues

4. Should have electronically controlled motorized coarse advance and manual section cutting via hand wheel. Should also have mechanical hand wheel lock
5. Chamber illumination should be through bright white light/UV having adjustable of chamber brightness to meet operator needs
6. Chamber cooling should be at $-35 \pm 3^{\circ}\text{C}$.
7. Should have integrated peltier fast freezing device that rapidly cools to $-52 \pm 2^{\circ}\text{C}$
8. Should have inbuilt cryobar storage positions at least 15 including at least 2 quick freeze locations.
9. Section thickness range should be 1 to 500 μm or more)
10. Trimming thickness range should be 5 to 100 μm or more
11. Should have vertical stroke length of 60mm ± 2
12. Should have automatic specimen retraction on return stroke
13. Horizontal feed range to 26 ± 2
14. Specimen orientation should be XY direction with 360° z axis rotation
15. Should have the provision of automatic programmable defrost system for immediate defrosting
16. Should have universal blade holder suitable for high profile and low profile disposable blades.
17. Should have Inbuilt UV certified disinfection to protect against surface contamination.
18. Operable at 230V, 50Hz.
19. Equipment should be European CE and USFDA.
20. Demonstration of the instrument should be mandatory for the technical qualification
21. UPS with battery of 2 hours back up shall be supplied.
22. Shall be supplied with Split AC of 1.5 Tonnee.
23. Shall have 3 years warranty and there after 5 years CMC.

Item no 10, Fully automated high throughput multi stainer workstation

1. High throughput system should be with multiple protocols.
2. System should be capable for running H&E, PAP and other special staining protocols
3. Should be capable to Load multiple slides racks/basket
4. The Intuitive software to perform separate protocols simultaneously with multiple baskets in process should be available
5. Provides all the information required for routine operation from a single screen shall be there
6. Shall have USB connectivity to allow rapid access to data and protocols
7. Units shall have 4/5 independently-heated positions for drying slides
8. Shall have Complete with 6-8 water stations, 26-28 reagent stations, and a total of 4-6 configurable doors for loading and unloading
9. With the touch of a single button, the software shall schedules runs, allocates reagents, optimizes the reagent plan and calculates the most efficient route for each protocol
10. System should be capable to easily modify suggested staining protocols
11. Shall have Edit capabilities for up to 8-10 active protocols.
12. The equipment should be European CE and USA-FDA
13. Demonstration of the equipment will be required
14. System shall be supplied with UPS of 2 hours battery backup & AC of 2 tonnee split with stabilizer.
15. Shall have 3 years warranty and there after 5 years CMC

Item no 12, Fully Motorised Microtome

- Should be fully automatic motorized rotary microtome with a smooth running hand wheel by manual as well as automatic with Emergency Stop Switch with universal cassette clamp.
- Should provide motorized sectioning facilities with forward and backward coarse feed speeds
- Should have precision micrometer feeding system with 3-4 modes of sectioning
- Should have hand wheel locking system for user safety.
- Should have adjustable specimen retraction system in between 5-100 μm
- Should have electromechanical feed system for fine and trimming section thickness and forward and backward specimen movements via stepping motor.
- Should be able to provide section thickness range of 0.5 micron to 100 micron.
- Should have trimming thickness feed via precision stepping motor from 1 micron to 500 micron.
- Should have spacious, removable section waste tray with integrated arm
- Should have removable operating panel with full graphic display
- The knife holder should be able to hold low profile disposable blades.
- Horizontal feed range 25 +/- 1 mm and vertical specimen stroke length 70 +/- 2 mm

Operable at 230V, 50Hz.
Performance certificate 5 users which may be verified by technical experts
Instrument must be USFDA
Company must have Presence on All India Service centres Shall have 3 years warranty and there after 5 years CMC.

Item no 13, Fully automatic cover slipping workstation

<p>Cover slipper</p> <ol style="list-style-type: none"> 1. Should produce slides with superior optical quality for reliable long-term storage 2. It should allow for each single glass slide separately and without bubbles 3. It should have active carbon filters for safety. 4. Should be capable of cover slipping 300-400 slides per hour 5. Should be able to handle slide racks of various manufacturers and should be adaptable to individual laboratory requirements 6. Should be used with common range of mounting media including mounting with wet mountants. Should dispense adequate amount of mountant for coverslipping each slide. 7. Should be equally useful for histopathology and cytopathology slides 8. Should be highly reliable, cause minimum wastage and form a fully automated walk-away system 9. The equipment should be USA- FDA and CE 10. Instrument should have an operating voltage suitable for Indian plugs. 11. Voltage supply 230 V-50/60 Hz. 12. UPS with battery of 2 hours backup shall be supplied. 13. Shall have 3 years warranty and there after 5 years CMC 14. The company engineer shall rectify the issues pertaining to the Equipment within 48 hours of breakdown.

Item no. 14, Fully automatic immuno histochemistry setup

1) System should be fully automated Immuno staining system.
2) Should perform on board Baking, Dewaxing, Epitope Retrieval, Staining and Counter stain.
3) Should be capable to do ImmunoHisto Chemistry (IHC) and In-situ hybridization(ISH).
4) Should be capable of performing IHC and ISH using same DAB detection kit
5) System should be open for Primary Antibodies.
6) Should be Xylene free.
7) It should have 3 or more independent slide racks with the capacity of atleast10 slides per rack which can work independently.
8) It should have the capacity to run 30 slides at a time.
9) Provide continuous workflow by independent access to each slide tray.
10) Should have fast turnaround time (TAT) – Completes 30 slides run in 3 to 4 hours
11) It should separate Hazardous and non Hazardous waste.
12) It should have on boarding mixing of Chromogens.
13) It should read slide labels by Optical Character Recognition (OCR)/Barcode
14) System should have total tissue care for frozen, bone marrow and fatty breast tissues.
15) Should have liquid level sensor (LLS) for Tracking and monitoring reagents. Alerts when reagents are low or waste is full.
16) Reagent dispensing method should be Probe.
17) Should be capable to doing Dual IHC (Double staining).
18) The Stainer should have the facility for minimum reagent usage as 100 µl / test and the reagent container capacity may be 7ml or 30 ml.
19) System should have the facility of LIS connectivity (optional).
20) Should have operating temperature from 35°C to 100°C.
21) The Stainer should be flexible to permits simultaneous processing of slideracks using different staining protocols (IHC,ISH , Double staining, Her2 FISH).
22) Flexible control software with protocol editor.
23) System Should be USFDA and CE
24) UPS of 2 hours backup and Split Air conditioner of 2 tonne shall be supplied with the instrument.

- | |
|---|
| 25) The starter kit shall be supplied for atleast 500 reactions at the time of demonstration/installation. |
| 26) The rates of consumables shall be quoted which will be freezed for 5 years |
| 27) System should be Bench top. |
| 28) The company engineer shall rectify the issues pertaining to the Equipment within 48 hours of breakdown. Shall have 3 years warranty and there after 5 years CMC |

Item no 15, Autopsy saw

- Speed should be in range of 16500-17,500 rpm motor.
 - Should have 32,000±1000 oscillations per minute
 - Light weight
 - Heavy-duty waterproof atleast 10ft cord and hospital grade plug.
 - Power toggle on/off switch.
 - Easy to handle, ergonomically designed
 - No Lubrication require for lifetime
 - The high speed oscillating action quickly cuts through bone without harming soft tissue
- With 1.2 A - Mandibular, Deep Cutting, Crescentic osteotomy, Spinal Colum- Variety of blade include 2.5in/6cm diameter round blade
- CE & US FDA certify equipment for better safety –
220-230 Voltage. If needed a converter should be supplied.
The guarantee will be for three years and thereafter CMC for the next five years .

Item no 16, Downdraft Elevating Pedestal Autopsy Table

It should have following Features.

- Shall be All 304 stainless steel. Table top, sink and grid plates shall be 14 gauge and Pedestal shall be 18 gauge
- All welds should be Heliarc seams and joints, ground and polished to match adjoining surfaces
- All welds should be rounded and polished on all inside and outside corners for easy cleaning
- Shall have Adjustable elevating actuators with touch control buttons
- Shall have Hydro-Aspirator with cold water control valve with reverse flow valve
- Shall have Body support solid or perforated stainless steel body support grid plates
- Shall have GFCI Two (2) duplex outlet with waterproof cover
- Shall have Spray Hose Assembly with cold water control valve nozzle and 10 ft. of pressure flexible hose
- Shall have Mixing faucet with gooseneck spout and wrist blade handles with vacuum breaker
- Shall have Heavy-duty 1/2 hp commercial disposal with switch and solenoid
- shall have Large single compartment sink basin, 18” x 12” x 10” deep
- shall have Rapid and positive drainage
- shall have Removable Access Panel
- the Plumbing and Electrical lines shall be factory installed. Single point connection at customer location should be made available.
- It Should be European CE or USFDA certified product.
- Shall have Down draft ventilation assembly double-cone style
- The civil work has to be done by the bidder for installation of table

OPTIONAL FEATURES:

- Post mortem scale with scale pole and bracket
- Table rinse with cold water control valve and vacuum breaker
- Commercial Heavy duty Disposer 3/4 hp, 1 hp or 2 hp
- Single lever hot cold fixture
- Gas / air cocks
- Stainless steel full grid body supports removable
- Over-the-body dissecting tray
- Headrest
- Emergency eye wash
- Dissecting tray sits on top

Item no 17, “L” SHAPED AUTOPSY TABLE

- SPECIFICATION OF “L” SHAPED AUTOPSY TABLE

- All types 304 stainless steel construction with a polished No.4 finish
- Heliarc –welded seams and joints ,ground and polished to match adjoining surfaces
- Radii on all inside and outside corners for easy cleaning .
- Full length perforated dissection grids for autopsy table
- Removable access panel
- GFCI duplex receptable w/waterproof cover
- Plumbing and electrical lines factory installed and require only single point connection at the project location
- Backflow protection for all plumbing fixtures to prevent backflow of contaminated water
- Hydro –aspirator with reverse flow,cold water control valve and 10ft./3m of hose
- Spray hose assembly with cold water valve ,nozzle,10ft./3m of flexible hose
- Mixing faucet with gooseneck spout and wrist blade handles
- Single compartment sink
- Tabletop slope toward sink basin for rapid drainage
- Should have total Down Draft Ventilation Assembly
- Should have Table End Rinse with cold water control valve for autopsy and dissecting areas
- Should have European or USA CE certificate

Autopsy Table Width:.....30 in./76 cm.

Length:.....106 in./269 cm

Height:.....36 in./91 cm.

Item no 18, Department of Forensic (charts models)

Charts and models

A. Models

Strangulation Mark

Types Of Hymen

Defence Wound

Cut Throat

Victim Of Sex Ofence

Child Abuse

Firearm Injury

Burn Injury

Wounded Man

Types Of Occupational Mark

B. Charts (20X26 Inch, laminated on ply/board and shall have hooks for mounting on walls)

Life Cycle Of House Fly

In Famous Conduct

Abrasion, Contusion And Laceration

Hanging And Srrangulation

Circle Of Wills

Skull Fracture

Rule Of Nine

Criminal Abortion

Partial Hanging

Hipocratic Oath

Dhatura Plant And Its Parts

Oliander And Its Parts

Cannabis And Its Parts

Aconite And Its Parts

Croton And Its Parts

Ricinis And Its Parts

Wonded Man

Mandible Of Different Age

Somniferus And Its Parts

Animal Hair And Human Hair

Animal Poisoning

Height Of Uterine Fundus

Erruption Of Teeth

Factor In Tsd

C. Museum Specimen:

Cobra
 Common Krait
 Banded Krait
 Russell Viper
 Saw scale viper
 Pit viper
 Sea Snake
 Alligator
 Scorpion
 Foetus (From one month to full term)
 Foetus with continental anomaly
 Twin foetus
 Tattoo designs
 Skin showing mechanical injuries (5 pieces whole range)
 Organs showing trauma (5 pieces whole range)

D: Poison specimen.

The set shall consist of 100 commonly used poisons in forensic medicine teaching .
 Shall be well labeled and descriptive catalogue shall be provided.

E: Weapons

The set shall consist of 100 commonly used weapons in forensic medicine teaching .

Item no 19, Department of Forensic (Dissection set)

All instruments must be high quality stainless steel corrosion and rust free and shall be CE certified/ISO certification.

The demonstration is mandatory of these equipments at the respective Medical college.

Organ knife 10 inch blade solid forged

Organ knife 6 inch blade solid forged

Mayo Harrington Straight Scissor 28 cm

Mayo Harrington Curved Scissor 28 cm

Post mortem knife blade 9 inch x 0.9 inch

Dura stripping forceps

Spinal cord remover 30cm

Kelli retractor – 25 cm long stainless steel

Rib cutting knife

Specimen knife with ruler (RATCLIFFE PATTERN) - blade 20.3 x 3.8 cm, standard 13 inches (33cm)

Councilman rib shear – stainless steel standard 38 cm size with box lock handle

Flexible probe with eye at one end – stainless steel

Virchow's skull breaker

Bullet probe – stainless steel – 25 – 30 inch with blunt end round tip with 20 – 24 caliber

Post mortem hammer with hook – stainless steel 25 cm, 22 mm diameter long with hooked handle

Rectal thermometer

Stainless steel glove for infected dead bodies with wrist band size 6 inch – 6.5 inch and 7.5 inch

HIV protection kit with disposable cap and mask

Stainless steel scissors blunt 8 inch

Stainless steel scissor blunt 6 inch

Stainless steel scissor, dissecting 5 inch with one probe point for coronary artery

Stainless steel dissecting forceps 6 inch

Stainless steel dissecting toothed forceps 8 inch

Stainless steel Viscerotome/Anterotome straight/curved

Stainless steel Chisel straight with 3 x 4 inch blade

Stainless steel Chisel with spine locating point

Stainless steel Measuring jug 250 ml, 500 ml, 1 liter and 2 liter

Stainless steel instrument tray 10 inch, 12 inch, 18 inch, 24 inch

Stainless Steel Instrument trolley

	Fumigation module with 2 – 5 liter aerosole liquid holding capacity, corrosion free, stainless steel and plastic
	Post mortem stapler
	Liston bone cutting forcep and shear size 25 cm long
	Cartilage knife 27 cm, 5½ cm
	Bandage scissors 20 heavy duty stainless steel
	Metallic Probe
	Item no 20, Department of forensic – Instrument set
1	<p>X – Ray Viewing lobby (4 Film View) View Boxes. View boxes shall be Easy to install Design shall be slim i.e 2.5cm or 3 cm thick. It should have LED Lamps. The thermometric scale of the light source should be over 9000 degrees of Kelvin. The panel shall be made of Acrylic. There should not be any dark spot in the viewing area. It should have Built-in electrical source. Dimension W×H×T(mm) 1640×545×25 Visual size W×H (mm) 1500×440 Type of light source HIGH LUMINANCE LED, 100000 Hours On/Off Control Individual Panel On/Off Control. Film Activation Switch</p>
2	<p>Stop watch Stop watch reading at 1/5 second. :- Electronic with alarm settings upto seconds with battery</p>
3	<p>Anthropometric set Folding Metal Rod Upto 7 Ft :- Metallic non-rust, standardized, graduated, up to 7 ft. Osteometric board Cranimeter Mandibulometer Goniometer Vernier Calipers Equipment for reporting Height Weighing machine Dial type human</p>
4	<p>Digital Spectrophotometer Range 340 to 960 nm with facility for automatic concentrating % transmission and U.D. measurement and U.D. measurement wavelength resolution 5 nm 3.1/2 digital LED display with round test tubes</p>
5	<p>Chemical Balance Digital Single Pan Sensitive Chemical balance 0.1mg accuracy</p>
6	<p>Hack Saw(Stainless steel) It shall be made of high carbon steel blades made at HRD to 52 degrees. Blades shall be antirust, hard and durable. Blades shall be chrome plated. Shall be ISO certified</p>
7	<p>Distillation Plant :- Manesty type made of Stainless steel , electrically operated ,approx. output 3/4 liter .</p>
8	<p>Brain Knife shall be autoclavable and chemical resistant. It shall be made of stainless steel and both edges of the blade shall be sharp, so as to prevent the damage to the tissue</p>
9	<p>Simple S.S. Stretcher trolley for cadaver transport :- It shall be made of strong steel tubular frame work of trolley mounted on four 150mm diameter swiveling castors. It shall have removable stretcher top made of S.S. sheet (18 gauge) supported on tubular frame. The frame shall be Pre treated and epoxy powder coated. Over all approximate size:2030mm(L)X560mm(W)X820mm (H). Company Shall be ISO certified.</p>
10	<p>Slide Warming Table :- Thermostatically controlled. Uniform temperature from room to 80 0 c top made of anodized aluminum /stainless steel. 40x25cm</p>
1	Rectangular Hot Plate

1	<p>Use to heat glassware or its contents Durable cast iron heating element that heats up fast Thermostatic control from simmer to boil Durable and easy to clean spray plastic finish Variable heat control Stainless steel body with top having the diameter 30 cm Temperature and working indicator light Maximum surface temperature 300 c Shall be CE certified</p>
1 2	<p>Glass cutting pencil</p>
1 3	<p>Spectroscopic Lens With Adjustable Slit :- Spectroscope, small instrument to view and measure spectral lines from various light sources. Light enters through a single adjustable slit, is focused with a lens and then dispersed through a system of glass prisms to produce a spectrum of colors.</p>
1 4	<p>Stethoscope Double bell Shall be CE certified</p>
1 5	<p>Digital BP instrument The instrument shall be LED based/digital Shall be ISO certified</p>
1 6	<p>Automatic Tissue Processing Machine :- A sturdy and elegant equipment for complete automatic processing of tissues starting from dehydration upto final fixing in wax. Equipped with latest micro – switches mechanism for trouble free performance & convenience. Supplied with following accessories. 1. Wax bath (thermostatically controlled) 2. Stainless steel basket – 1 3. Tissue containers – 24 4. Specimens beakers (1 litre) with cover – 10 5. Calibrated discs with 24 hour times 6. Basket rotor – 1 7. Tissue capsule stainless steel 12 Nos. Fitted with digital timer.</p>
1 7	<p>Weighing Machine For Organs Digital :- (a) 304 SS Platform - anti-staining & cleaning 18-20 gauge (b) Platform size 350 mm x 350 mm approx. (c) To weigh maximum of 20 kg. (d) Rechargeable battery back-up (e) TARE function provided (f) Digital Display with bright LED with electric cord of 10 metres</p>
1 8	<p>Weighing Machine For Fetus Digital Easy to Operate. Rugged construction. Large weighing Pan. Could be used for a weight up to 15 kilograms.</p>
1 9	<p>PARAFFIN EMBEDDING SYSTEM. It should have single module design. It should be Electronically controlled for dependability and performance. The heating function shall be controlled by accurate digital thermostat It should have Low and flat work-surface. It should have atleast 4-liter capacity paraffin reservoir. It should have Forceps warmer and illuminated paraffin dispenser. It should have Warming oven with removable shelf and double hinged lid. It should have Wax bath complete with drainage shelf, debris screen, and hinged lid. It should have Heated work area which provides a flat working surface with the excess paraffin draining under the surface into the wax bath; It should have hand and foot switch for activating the dispensing head. It should have Bright illuminations for convenient working. It should have cold plate of area in range of 165-175 sq. in. of efficient refrigerated cooled working surface with removable stainless steel drainage tray beneath. It should have touch-pad for easy temperature setting and monitoring.</p>

IDL (Instrument detection limit) - In EI SIM mode, with helium carrier gas and eight sequential 100 fg OFN splitless injections monitored for m/z 272 produce the following instrument detection limit (IDL), calculated from the chromatographic peak area with 99% confidence interval: $IDL \leq 5 \text{ fg}$ or better

GC

Oven:

The column oven should have an operating range of -99°C to 450°C using the optional sub ambient oven accessory (with liquid nitrogen or liquid CO₂ as coolant).

Heat-up time from 50°C to 450°C should be within 4 minutes

Cool-down time from 450°C to 50°C should be within less than 4 minutes

Pneumatic controls

Electronic pneumatic controls should be integral part of injector and detector modules. No extra tubing and wires should be needed to operate electrical valves, and deliver carrier, detector and make-up gases to injectors and detectors. The digital carrier gas controller should allow operating in constant and programmed flow and pressure modes.

Split/splitless injector

The Split/Splitless injector should be user-installable within few minutes, and without any special tool.

The injector should be able to operate with capillary, wide bore and packed columns

Maximum Temperature: 400 °C

Split Ratio: up to 12500:1

Pressure Range: 0-1000 kPa (0-145 PSI)

Total Flow Setting:

– Control of split flow in 1 mL/min from 0 to 1250 mL/min

– Purge flow from 0 to 50 mL/min

PTV Injector

The dedicated Programmable Temperature Vaporizing injector should be user-installable within a few minutes, and without any special tool.

It should support hot/cold split and splitless modes as well as large volume injections (solvent split) and On Column (TPOC).

Temperature Range: air forced cooling to ambient +5 °C up to 450 °C

Cryogenic Option Minimum Temperature: -100 °C with liquid nitrogen; -50 °C with CO₂

Temperature programming of up to 3 ramps at up to 870 °C/min.

Split Ratio: up to 12500:1

Pressure Range: 0-1000 kPa (0-145 PSI)

Total Flow Setting:

– Control of split flow in 1 mL/min from 0 to 1250 mL/min

– Purge flow from 0 to 50 mL/min

This injector must be capable to achieve cooling rates of 7°C/s without requiring the use of cryogenic fluids

Flame Ionization Detector

Capillary column optimized compatible with 1/8" and 1/16" packed column

Flameout detection and automatic re-ignition

MDL: <1.4 pg C/s

Sensitivity: >0.03 Coulombs/gC

Linear Dynamic Range: >10⁷ (±10%)

Maximum Temperature: 450 °C in steps of 0.1 °C

Data Acquisition Rate: up to 300 Hz.

Auto Liquid and Headspace Sampler – Qty 1

XYZ robotic sample handling apparatus with syringe switch concept. The system should be capable to access both injection port for liquid & Headspace sample analysis by changing only suitable syringe. The auto sampler must be controlled through LAN/RS232 in remote or suitable technology. The auto sampler control (method, sequences etc.) must be possible within the Chromatography Data System in use, without any external software needed.

Headspace Sampler: Headspace sampler with minimum **50 vial** capacity or more

Vial Volume –20/22mL

Syringe Temperature: 50 °C to 150 °C in 1 °C steps or more

Incubation Oven Capacity: 6 vials or more

Incubation Oven Temperature Range: 50 °C to 200 °C in 1 °C steps with Agitation
 Headspace Crimper & decapper should be quoted.
 Offered Head space sampler should be Upgradeable to Liquid sampler and SPME in future

Data System

- Complete computer control of parameters for GC, liquid autosampler, Head space and mass spectrometer
- Complete integration of autosampler, gas chromatograph, and mass spectrometer methods and set-up procedures
- Fully automated data processing programs
- The software must operate with Windows 7 operating system for true 32-bit multi-tasking that allows the simultaneous generation and printing of reports as an acquisition proceeds without interruption
- Real time data analysis
- Library Browser – Library search and report program by the National Institute of Standards and Technology (NIST)

Vendor has to ensure for supply of carrier gas for minimum 10 years.

All pre-requisites required to run the system like gas cylinders H2,N2 and Oxygen with regulators, PC, Printer, UPS, Columns (2Nos) etc to be supplied by the bidder.

The warranty shall be of 3 Years Warranty followed by CAMC for next 5 years.

Department of Forensic

Item no 22, Infra red spectroscope

1. The FT-IR will be used for the analysis of , powder, liquid, Gel & Paste samples
2. It must have a scan range of 6,000-500 cm⁻¹ with ZnSe beamsplitter only.
3. Spectral resolution must be 0.8 cm⁻¹ or better.
4. Wavenumber accuracy of at least ± 0.01 cm⁻¹ or Better
5. Signal-to-Noise: 50,000:1 or better at resolution 4 cm⁻¹.
6. The source should be stabilized to prevent hot spots forming.
7. Interferometer must be rock solid permanently aligned and highly stable.
8. Optics: All mirrors must be gold coated only.
9. System should have DLATGS detector.
10. The instrument should be connected with computer through Ethernet cable and should indicate whether the source, laser & other parts of instrument are operational.
11. Critical components must be checked prior to every scan with ability to automatically recognize accessories are essential.
12. System must be quoted along with ATR to analyze all type of sample like Powder, Gel & Paste etc. without any sample preparation.
13. Software – should be Windows based system with facilities like Instrument control, Basic and advanced data manipulation routines, Spectral calculator, quantification etc.
14. System must be quoted with high humidity resistant ZnSe beamsplitter only.
15. All necessary local accessories like Hydraulic Press, Agate Mortar & Pestle, Pellet Die, Liquid Demountable Cell, IR Grade KBr Powder, Computer & printer must be quoted along with the equipment.
16. System must be quoted with 10 years warranty on Interferometer & 5 years warranty on Laser & Source.
17. System must have option to be operated through battery & same should be quoted.
18. Shall have certification of European CE
19. Similar installations of this kind should have been made by company in recognized research institute/university in India and provide the user's list for the same.
20. The guarantee will be for three years and thereafter CMC for the next five years .

Item no 23, Mortuary chamber

1	Chamber shall be of 8 Bodies.
2	Temperature range shall be +2 degree cent to +8 degree cent.
3	Approx size of the unit should be 4000mm width x 2400mm depth x 1750m height. Cooling unit is to be fixed on the Top of the unit.
4	The cooling capacity shall have two units of atleast 6000 BTU per unit which are to be installed on 4+4 bodies, so that chamber doesn't have a lag phase in case of failure of one cooling unit
5	Double walled with Stainless Steel/Pre fabricated panels for outer surface and Stainless Steel inner chamber with insulation in between of cyclopentance 80mm(blowing agent). Both side Stainless Steel sheet thickness should be atleast 0.4mm.

6	Front opening, hinged insulated individual doors linked with magnetic gasket, handle and lock arrangement with keys in duplicate for individual dead bodies.
7	Single pcs Stainless Steel Six trays to carry dead bodies with handles at both ends, travel on rollers fitted for easy movement.
8	To avoid any moving part inside the cabinet for easier maintenance and cleaning refrigeration unit is kept on the Top of the chamber and fixed.
9	Temperature of +2 deg cent to +8 deg cent is maintained by hermetically sealed refrigeration compressor unit and is controlled by an automatic electronic solid state digital temperature controller cum indicator.
10	Temperature (Microprocessor controller) is mounted on the front panel provides on the front Top along with pilot lamp and main switch.
11	Supplied complete with trays, cord and plug, suitable to work on 220 volt single phase 50Hz AC supply.
12	Offline/ Online temperature Recorder.
13	Specification/Standards should be EN 60335 certified.
14	Compact and neat. Hygiene & ease of maintain. Flexibility of shifting. Internal lighting water proof fluorescent lamp.
15	Firm should provide a undertaking from the principals for atleast 22% electrical savings from the normal PUF.
16	Complete wiring suitable MCB, MCB box, earthing for each unit separately. Suitable stabilizer capacity should be supplied and installed.
17	Heavy duty exhaust fan is to be supplied and fixed in the room where the Mortuary is to be installed.
18	Suitable size platform is to be construct at site to install Mortuary for proper drainage system.
19	Manufacturing company should be ISO 9000 and shall have green guard certification
20	Bidder is to be submit atleast ten satisfactory certificate along with copy of the order for the state government users in Rajasthan which may be verified by the technical committee.
21	No walls should be broken at site to enter the Mortuary Chamber. Assembling should be done at site only. Complete Body fixing work to be done at site, should be supplied in loose panels.
22	Bidder should be based in Rajasthan to provide after sales services within 24 hours to prevent dead bodies. Service centre number, Call centre number, Office landline number and all concern Mail Id are to be provided. Sufficient spares are to be kept at service point.
23	Quarterly service is to be provided by the bidder and unlimited number of break down free of cost.
24	After Gaurantee period of three years from the date of installation/Handing over, bidder has to provide comprehensive maintenance for atleast five years.

Item no. 24, Ultraviolet spectroscope

1. Shall have True Double Beam with dual detector technology.
2. The Wavelength range shall be 190nm-900nm or more
3. The Stray light shall be 0.01% @220 nm for NaI
4. Wavelength Accuracy shall be ± 0.1 nm automatic correction
5. Baseline Stability shall be 0.0005 Abs/H @500 nm
6. Wave length repeatability shall be: ≤ 0.1 nm or better

7. Wavelength Resolution 0.1nm or better
8. The Detector shall be Photo multiplier tube
9. Light Source : Tungsten Halogen & Deuterium Lamps Automatic Interchange
10. The Spectral Bandwidth shall be 0.1nm – 5.0nm variable
- 10 Variable Bandwidth intervals shall be 0.1,0.2,0.5, 1.0, 2.0,5
- 11 shall have Built in DNA/ Protein Software.
- 12 Instrument can be use as a stand alone as well as with PC also for which suitable software should also be given by the supplier.
13. Suitable PC to be supplied by vendor along with system.
- 14 Photometric range shall be -4 to 4 Abs
16. Output shall be USB Port and parallel Port (Printer)
17. System must be quoted with 10mm quartz cell pair for routine sampling.
18. shall have European CE certification
19. Shall be quoted with all Accessories to make it functional.
20. The UPS with battery shall be quoted with the system of 2 hours backup
- The guarantee will be for three years and thereafter CMC for the next five years .

Item no 25, Walk in cold room

Walk in cooler must be efficient and have high quality of insulation preferable polyurethane foam thickness 60 mm with 0.5 mm Stainless Steel 304 on outer and inner covering of walls/sealing having low thermal conductivity between 0.019 to 0.022 W/M° C.

Prefabricated PUF Panels to prepare a external room of size (L x W x H) 10 ft x 10ft x 9ft .

Cold Room temperature +2 to +8 Deg. C.

Pre fabricated PUF panels for floor with GI Antiskid flooring.

Supply of 1 No. flush type door along with door closer with 180 degree open facility.

Walk in cooler must be such that it may be shifted to different place easily without any major loss of room and cooling unit. Preferably made up of good quality cam locking system with metallic plunger should be provided to interlock each panels without using rivets or nails or any other fastening material. The Cyclopentane puf panels should be self extinguishing under ASTM: 1692 and the density of panels should be 40 +/- 2° 1g/m3. Corner panels should be provided for preparing neat and clean compact room. Firm should provide a undertaking from the principals for atleast 22% electrical savings from the normal PUF.

Heat Load: Please indicate the Heat Load in BTUH, minimum heat load shall be 10000. Air cooled condensing unit shall comprise of compressor. Condensing & evaporating unit shall be Quantity 2 Nos. (1 Working + 1 Stand by). The Refrigerant shall be R-404a/ 22.

Evaporator unit matching with condensing unit complete with coil section and suitable defrosting arrangement (Euro vent standard). Evaporating unit casing should be of SS-304. Quantity 2 Nos. (1 Working + 1 Stand by). Refrigerant R-404a/ R-22. Split type unit with 100% stand by

Refrigeration units shall be automatic without any operator

Safety equipment's shall be incorporated

HP/LP cut out & Thermostat controlled unit.

Shall have Safety release lever to open the cold room from inside in case some person is locked inside the cold room.

Shall be Design at ambient temperature of 45 Deg C

Shall have Ozone friendly Cyclopentane blown foam at ± 2 Kgs. / Cubic Mtr.

High 90-95% closed cells.

Refrigerant piping shall be with cooper pipes, Drain piping and Suction Line Insulation.

Refrigerant controls shall includes

Thermostatic expansion valve.

Liquid line and filter drier.

HP/LP switches

Protection by thermostat
Electrical digital temperature indicator cum controller for auto cutoff system.
With vapor proof lighting in the room.
Heat load calculation should be submitted along with the tender documents.
Suitable stabilizer should also be supplied with both the unit.
The make and models offered along with design for compressor unit, condensing unit, evaporator unit and other items included in offer.
List of customers where such walk-in-type cold rooms units have been supplied & commissioned and performance certificates in last five years. It is essential that party must have supplied such cold rooms in past as per the qualification and eligibility criteria.
Service center should be based at Jaipur/Rajasthan. Service Center to attend the complaint within a period of 6 hours to prevent the damage to dead bodies/high value kits.
Firm should be liable to provide the breakdown service within 24 hours to prevent the storage of kits.
Firm should submit the list of users along with 10 performance certificate from the users from Institute of National Repute.
Firm will be responsible for complete installations.
Proper Stainless steel selves along the internal wall be provided for keeping bead bodies/kits & reagents in Consultation with the department.
Gaurantee period will be three years and firm is bound to provide the services (CMC) for next five years on hospital terms & condictions.

Item no 26, Microbiology BOD incubator

BOD INCUBATOR shall be 6 cu ft.

CONSTRUCTION

Double walled, inner made of rust proof stainless steel, outer made of thick best quality Mild Steel duly powder coated painted. Insulation between inner and outer wall is done with thick glass wool to prevent any heat loss. Door is front open made of thick transparent glass with best quality hinges handle etc.

TEMPERATURE RANGE

Temp. range is from 5 C to 60 C with accuracy of + 0.5 C and is controlled by digital temperature Indicator cum controller. Provided with fan cooled condenser. This temp. controller is provided with unique facility of time delay relay. Temp readability 0.1°C

COOLING

Cooling is done with ISI Marked hermetically compressor of KIRLOSKAR make which is connected to thick copper coils placed in the rear of the chamber through condenser, fan motor, capacitor, relay etc. Whole cooling unit is placed below the main chamber in a GI housing. CFC Free, Environment friendly.

HEATING

Heating is done with ISI mark strip type heaters placed near the cooling coils.

AIR CIRCULATION/FLOW

Air is circulated by ISI mark Silicon binned high performance motor which are connected to balanced blowers for proper air flow inside the chamber.

INTERIOR ILLUMINATION

Interior Illumination is done with the help fluorescent tube.

CONTROL PANEL

Provided with On/Off switch, Indicators, Digital Controllers, tachometer etc.

POWER

Works on 220/230Volt, Single Phase, A.C.
Shall be ISO and GMP and European certified.

Item no 27, C02 incubator

Sr N o	Desired bid's Technical Specification Point wise
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- Should have approx. 6 cu. Ft. Volume
- Direct heat superior to water jacketed designs
- Forced convection (fan) superior to fan-less designs
- Faster temperature <5°C, CO₂ with <10 min and humidity recovery
- Improved temperature <0.2 °C and CO₂ uniformity 0.1%, less condensation issues
- Humidity range up to 95 %
- Higher steady-state humidity (beware of claimed values!)
- Practically noise-less and vibration-free cell culture environment
- Gentle airflow combined with higher humidity friendly to cells
- Main body is EG steel with antimicrobial coating and with SS interior
- Proven in practice for decades, no issues with cells drying out
- better design: air flows gently around, and not across, culture plates
- Enables ULPA filtration which prevents contamination in first place
- Precision moisture proof NTC thermistor
- Should have 8 heaters, grouped into 3 zones
- Forced convection design
- Precise Temp CO₂ and Humidity Control: Stable, uniform distribution; fast recovery after door opening without overshoot.
- Robust Quadruple Contamination Control: ULPA filter; 90°C Wet Heat overnight decontamination cycle; external surfaces are covered with Isocide antimicrobial coating; full stainless steel interior.
- Intelligent Data & Event Logger: Record all incubator parameters for on screen recall or download to PC.
- With IR Sensors
- Interactive LCD screen. With 16 mb built in flash memory
- Continuous data logging controller; quick change of alarm settings; diagnostic interface; password protection; error logging; on-screen quick help
- Should have more alarms >20 Alarms
- Air-tight seal door system
- Rounded corners chamber for easy cleaning
- Pilaster shelving system.
- Built-in digital data logger
- Shall be CE certified.

Item no 28, Dept of pathology Hot plate & Cold plate

Hot plate PLATE FOR MODULAR TISSUE EMBEDDING SYSTEM

For heating slides to uniform temperature without damaging the section
 Top plate should be mounted by insulated metal frame -scratch resistant cast iron/ aluminum top teflon coated fitted with imported thermostat to control surface temperature from ambient to 95 degree Celsius
 Should operate on 220v
 Digital display of temperature
 should have European CE approved and US FDA
 Shall have 3 years warranty and there after 5 years CMC
 The company engineer shall rectify the issues pertaining to equipments within 48 hours of breakdown

COLD PLATE FOR MODULAR TISSUE EMBEDDING SYSTEM

Compact table top system with
 Cold plate area to accommodate 60-80 regular size paraffin block
 Cold plate temperature -5°C or better (adjustable temperature control is preferable)
 Power supply AC 220-240 V/50 Hz
 Equipment should be European CE and USFDA Shall have 3 years warranty and there after 5 years CMC
 The company engineer shall rectify the issues pertaining to equipments within 48 hours of breakdown

Item no. 29, Pathology instruments

Cabinet for slides :-

	<p>The cabinet is constructed with heavy duty weather proof ply covered with sunmica externally.</p> <ul style="list-style-type: none"> * Capacity 1000 slides * Slide cabinet consisting of 11 drawers in a vertical row. * Capacity 1000 slides * To store slides safely. * Rust proof
	Magnifying lens :- with classic design and large viewing area with handle
	<p>Digital BP instrument The instrument shall be LED based/digital Shall be ISO certified</p>
	<p>Laboratory Counter Nine Keys :- Clay adom type 6 units, 5 keys and one totalizer with range 0-999</p>
	Laboratory stirrer :- Fitted with speed regulator. Height and space adjustable 1/20 H.P. A/C /DC motor 2000 rpm
	Slide boxes for 100 slides for students :- Made out of high impact plastic, firmly fitted
	Drill for boring glass
	<p>X – Ray Viewing lobby (4 Film View) View Boxes. View boxes shall be Easy to install Design shall be slim i.e 2.5cm or 3 cm thick. It should have LED Lamps. The thermometric scale of the light source should be over 9000 degrees of Kelvin. The panel shall be made of Acrylic. There should not be any dark spot in the viewing area. It should have Built-in electrical source. Dimension W×H×T(mm) 1640×545×25 Visual size W×H (mm) 1500×440 Type of light source HIGH LUMINANCE LED, 100000 Hours On/Off Control Individual Panel On/Off Control. Film Activation Switch</p>
	Sternal puncture needle adult size
	Sternal puncture needle child size
	Liver Biopsy needle
	Stop watch reading at 1/5 second. :- Electronic with alarm settings upto seconds with battery
	<p>Surgical instruments. :- Sets containing Surgical Standard Scissors-2, Curved Scissors-2, Pointed Scissors-2, Artery forceps-2, Mosquito Artery forceps-2, Scalpel handle-2, Plain forceps-2, Toothed forceps-2, Small retractors-2 etc. Probes-2, hooks-2. To be supplied with proper cover and box</p>
	Haemocytometers with red and white pipettes :- Improved double ruling counting chamber with a pair of cover glasses and RBC and WBC diluting pipettes complete in box.
	<p>Weighing Machine For Organs Digital :- (a) 304 SS Platform - anti-staining & cleaning 18-20 gauge (b) Platform size 350 mm x 350 mm approx. (c) To weigh maximum of 20 kg. (d) Rechargeable battery back-up (e) TARE function provided (f) Digital Display with bright LED with electric cord of 10 metres</p>
	Saw wire for cutting bones
	<p>Paraffin embedding bath Student :- Thermostatically controlled. Double walled with cups and sleeves for glass tubes. Temperature up to 950 c with accuracy of ± 0.5 to 10 c 6cups and 8 sleeves</p>
	Coplin jars
	Trough for staining
	<p>Balance, local Shall be encased in a wooden box with the front door made of glass. Shall sunply weight in different range upto 100 gms Shall be digital with good precision.</p>
	Incubator

shall have temperature range from room temp. upto 90⁰C. Shall be double walled and double door with glass window
 Inner chamber shall be of stainless steel sheet.
 Shall have heating elements at three sides.
 Shall have power indicator bulb.
 Shall have ON/OFF switch & power cord
 The approximate size shall be 450x450x450mm (18"x18"x18")

urinometer

PARAFFIN EMBEDDING SYSTEM.

It should have single module design.
 It should be Electronically controlled for dependability and performance.
 The heating function shall be controlled by accurate digital thermostat
 It should have Low and flat work-surface.
 It should have atleast 4-liter capacity paraffin reservoir.
 It should have Forceps warmer and illuminated paraffin dispenser.
 It should have Warming oven with removable shelf and double hinged lid.
 It should have Wax bath complete with drainage shelf, debris screen, and hinged lid.
 It should have Heated work area which provides a flat working surface with the excess paraffin draining under the surface into the wax bath;
 It should have hand and foot switch for activating the dispensing head.
 It should have Bright illuminations for convenient working.
 It should have cold plate of area in range of 165-175 sq. in. of efficient refrigerated cooled working surface with removable stainless steel drainage tray beneath.
 It should have touch-pad for easy temperature setting and monitoring.
 The various dimensions are accepted with a standard deviation of 5%.
 Height of Work Surface: Work stage 2.75"(7cm) above countertop
 Wax Reservoir Dimension (approx): .75"(L) x 4.75"(W) x 4"(D) (19.5 x 12 x 9.5cm)
 Wax Bath Dimension (Approx): 10.25"(L) x 8.5"(W) x 1.75"(D) (26 x 21.5 x 4cm)
 Warming Oven Dimension (approx): 6.5"(L) x 7.5"(W) x min 2.5" max 6" (14 - 16.5cm)
 Cold Plate Dimension (Approx): 11.75"(L) x 14.5"(W) (29.5 x 36.6cm)
 It should have Temp Ranges with one sided standard deviation of -2°C
 Wax Reservoirs: 40° - 70°C. Work Surface: 40° - 70°C
 Wax Bath: 40° - 70°C
 It should have Cold Plate working surface: ambient to -5°C
 It should be CE certified.
 Accessories, spares and consumables
 Spare Bulb - 3
 Thermostats - 1
 Power input to be 220-240VAC, 50Hz

Item no. 30, Binocular microscope for faculty

1. Upright Microscope for Bright field and Phase contrast
2. Microscope stand with harmonic component system/apochromatically corrected optics.
3. Constant color temperature LED Transmitted light with life span of more than 45,000 hrs
4. Quintuple (5 position) objective nosepiece.
5. It should have observation tube with F.O.V. 25mm/23 mm and three way distribution 100:0/ 50:50 or 80:20 /0:100
6. The Mechanical stage shall be hard and scratch free
7. Eyepiece shall be 10x/20 (x2), focusable.
8. Plan achromatic objectives shall be 4x, 10x PH1, 20x PH2, 40x PH2 and 100x/1.25 PH3 (Oil) Shall have Focus knobs with Coarse and fine.
9. Universal condenser with 5-position suitable for BF, DF, and PH
10. Should be upgradable to LED fluorescence imaging with LED excitation source.
11. Shall be supplied with 10 Megapixel HD camera
12. The microscope and camera shall be from the same manufacturer only.
13. The demonstration may be asked by the technical committee.
14. Shall be US FDA / European CE
15. Shall be supplied with LED monitor of atleast 21 inch
16. Shall be supplied with accessories like dust cover and extra full field eye piece and bottle of oil for 100X.
17. The company engineer shall rectify the issues pertaining to equipments within 48 hours of breakdown
18. Shall be supplied with latest generation desktop.

19. Shall give the guarantee of 3 years and CMC of 5 years.
20. Shall be provided with UPS and batteries of 2 hours backup.
21. The company engineer shall rectify the issues pertaining to equipments within 48 hours of breakdown

Item no. 31, Deca head Microscope

- The microscope should be suitable for Bright field studies, Phase contrast upgradable for Dark Field, DIC and Fluorescence
- Transmitted light LED light source for observation and photomicrography.
- Shall have Septuple nosepiece.
- Objective 4x, 10x PH1, 20x PH2, 40x PH2 and 100x/1.25 PH3 (Oil).
- Hard Mechanical stage which shall be scratch free with coaxial drive
- Universal Condenser of at least 5 positions for Bright field, dark field and Phase contrast
- Trinocular observation tube with three way distribution light path selection(100:0,50:50/20:80 and 0:100).
- Should be supplied with dust cover and dust protection arrangement from manufacturer.
- 1 main observer and 9 co observer. All the eyepieces should be minimum 22-23 mm FOV.
- The main observer as well as the co-observers should have minimum 22-23 mm Field of view.
- Atleast HD 5MP or more CMOS camera with inbuilt storage facility.
- All microscope unit including frame light source and camera must be from same manufacturer
- The equipment shall be European CE certified/USFDA
- The equipment shall be supplied with computer and UPS of 2 hour backup
- Shall be supplied with accessories to make it functional like bottle of oil and an extra full field eye piece.
- The warranty shall be 3 years followed by CMC of 5 years. The company engineer shall rectify the issues pertaining to equipments within 48 hours of breakdown
- ONE split AC of 2 Tonne with stabilizer shall be supplied.

Item no 32, Fully automated embedding system

1. Microprocessor controlled bench top unit, fully programmable automatic on/off control with two console unit one heated paraffin dispensing and embedding unit and cryoconsole with cooling plate
2. Can be programmed to turn on automatically to bring all work areas to their proper temperatures in time for the workday.
3. Independent programmable temperature settings for paraffin reservoir, mold warmer, cassette bath, and work surface
4. Capacity of tissue storage tank should be 4- 5 liter paraffin and large area of cold plate.
5. Paraffin reservoir temperature setting range from 50°C to 70 °c
6. Ample cold plate to accommodate at least 70 blocks.
7. Cassette bath to store at least 300± 10 cassettes.
8. Mild warmer temperature programmable from 50°C to 70°C
9. Work surface temperature programmable from 50°C to 70°C
10. Cold spot temp with Peltier element
11. Cold plate temperature range from -3 to -12°C and adjustable
12. System should be operated by manual as well as foot pedal.
13. Spacious paraffin collection tray to collect excess paraffin from work surface.
14. Separately heated paraffin dispenser with temperature 50°C to 70°C
15. Control panel with LCD display showing temperature, time, filling level.
16. Bright, even illumination of the embedding area to be provided through well lit and clutter free - Cool LED lighting
17. Instrument should be programmable for work-days, work starting time, work end time, real time and day of the week for automatic switch on/off of the instrument.
18. Should have forceps warmer, along with electrically heated forceps
19. Should have paraffin trimmer.
20. Mains connection voltage : 220-230v/50/60hz. And
21. Super Mega Cassettes can be embedded with ease.
- 22. Equipment should be USFDA and European CE**
23. UPS with battery of 2 hr back shall be supplied with the system.
24. The warranty shall be 3 years followed by CMC of 5 years. The company engineer shall rectify the issues pertaining to equipments within 48 hours of breakdown
25. One 2 tonnee split AC with stabilizer.

Item no. 33, Grossing station

1. Made of high grade stainless steel
2. Shall have continuous air flow along entire work area
3. Shall have integrated illumination with UV germicidal light
4. Shall have self supporting under carriage with adjustable leg
5. Shall have adjustable set of stool with rest
6. Shall be supplied with chair
7. Shall have camera holder and USB port and multi purpose power plug and LED light.
8. Shall have magnifying glass/light magnifier wuth flexible arms
9. Shall have holder for Documents, towel and instruments.
10. Shall have poluthylene cutting board
11. Shall have steel basin with adjustable valve with formalin pour of basin
12. Shall have waste bins
13. Shall have sturdy perforated insertable work plates and beneath it shall be a sprinkler system with adjustable valves
14. Shall have drawers
15. Working area shall be 5'x2.5'x3'
16. Shall be supplied with split AC of 1.5 tonne with stabilizer
17. The over all size is 150x75x90 cm
18. Manufacturer shall be ISO certified

Item no 34, Microscope for diagnostic and research work

1. Upright Microscope for Bright field, Phase and Polarization contrast application.
2. Microscope stand with apochromatically controlled optics/ harmonic component system.
3. Constant color temperature LED Transmitted light with life span of more than 40,000 hours
4. Quintuple (5 positon) objective nosepiece.
5. It should have observation tube with F.O.V. 23mm/25 mm and three way distribution 100:0/ 50:50 or 80:20 /0:100
6. Hard and scratch free Mechanical stage with coaxial drive.
7. Eyepiece 10x/22 (x2), focusable.
8. Fluorescence Grade objectives 4x, 10x PH1, 20x PH2, 40x PH2 and 100x/1.25 PH3 (Oil) with Plan Apochromatic lens
9. Shall have Adjustable Focus knobs with Coarse and fine.
10. Universal condenser with 5-position suitable for BF, DF, PH and Pol.
11. It should have Polariser and Analyser.
12. Fluorescence Illumination: Cool LED fluorescence illumination with min. life of 20,000 hrs and suitable for DAPI – CY range of dye. It should include Zero pixels shifts Fluorescence filters for DAPI, GFP/FITC, Texas Red/Rhodamine.
13. Camera: Colour cooled 2/3''CCD camera with minimum 5 MP or more resolution, HDMI output and speed of 18fps at 1280 × 960.
14. **Software:** Control cameras for image acquisition and features like exposure, gain, binning, gamma, region of interest of camera, Automatic recording of experimental parameters for reference and reloading for subsequent experiments, annotations, image overlay, image gallery and image comparison, Adjust contrast, brightness and gamma on every image, Merge, crop and image arithmetic, Intensity, length and area measurements, Measurement of area intensities through image stacks and Online measurement
15. A suitable PC I5 processor with licensed windows with at-least 8 GB RAM, 500 GB HDD, TFT approx. 23''with UPS with battery of 2 hours backup
16. Certification: US FDA/ European CE.
17. Camera, Microscope and software should be from same manufacturer.
18. Shall be supplied with accessories and dust cover and oil bottle for 100 x and extra eye full field eyepiece.
19. The warranty shall be 3 years followed by CMC of 5 years. The company engineer shall rectify the issues pertaining to equipments within 48 hours of breakdown

Item no. 35, Manual Rotary Microtome

Manual Microtome:

- Shall be Ergonomically made and compact design
Mechanical precision feed mechanism should be available
Manual sectioning and coarse feeding should be through smooth running hand wheel and coarse wheel

Cardiac Drugs... (1 Chart)

- (1) Modes of Action – Myocardial Contraction & Relaxation

Antithrombotics... (1 Chart)

- (1) Coumarin Derivatives – Vitamin K, Heparin – Origin Structure and Mechanism of Action

Drugs for the treatment of Hyperlipidemias..(1 Chart)

- (1) Drug Treatment of Hyperlipoproteinemias

Diuretics.. (1 Chart)

Laxatives...(2 Charts)

- (1) Laxatives
- (2) Irritant Laxatives – Purgatives/ Cathartics

Antidiarrheals.. (1 Chart)

- (1) Antidiarrheals and their sites of Action

Drugs Acting on Motor System... (2 Charts)

- (1) Depolarizing Muscle Relaxants
- (2) Antiparkinsonian Drugs

Drugs for the Suppression of Pain (Analgesics)

- (1) Pain Mechanisms and Pathways

Antipyretic Analgesics (1 Chart)

Local Anesthetics (2 Charts)

- (1) Diffusion and Effect
- (2) Local Anesthetics and pH Value

General Anesthetic (1 Chart)

- (1) General Anesthesia and General Anesthetic Drugs

Psycho Pharmacologicals (3 Charts)

- (1) Action of Benzodiazepines
- (2) Pharmacokinetics of Benzodiazepines
- (3) Effects of Lithium Salts in Mania

Hormones (4 Charts)

- (1) Hyperthyroidism and Antithyroid Drugs
- (2) Glucocorticoid Therapy
- (3) Oral Contraceptives
- (4) Diabetes of Mellitus

Antibacterial Drugs (3 Charts)

- (1) Antibacterial Drugs Acting on DNA
- (2) Inhibitors of Protein Synthesis
- (3) Aspects of Therapeutic use of Tetracyclines, Chloramphenicol and Aminoglycosides

Antifungal Drugs (1 Chart)

- (1) Drugs Used in the treatment of Fungal

	<p>Infections</p> <p><u>Antiparasytic Agents (1 Chart)</u></p> <p>(1) Antimalarials</p> <p><u>Therapy of Selected Diseases (4 Charts)</u></p> <p>(1) Angina pectoris</p> <p>(2) Hypertension</p> <p>(3) Gout and its Therapy</p> <p>(4) Rheumatoid Arthritis</p>
<p>Item no 37, Pharmacology:-Computer assisted module</p>	
	<ul style="list-style-type: none"> • Experimental pharmacology based on undergraduate and post graduate curriculum • Tutorial and examination mode for instructors and students for demonstration and assessment of experiments • Interactive multimedia content rich in live videos, animations and illustrations • Shall provide 15 inch or more screen, 6th/7th generation Laptop which is compatible for software provided. • The subscription of the software shall be for three years. • Shall be supplied with 25 computer which shall be of 6th generation, 4 GB RAM, hard disk 1 TB with online UPS 625 VA. • Shall be supplied with 25 computer table and chair for computer. • Two Air conditioners of 1.5 tonne • Shall be supplied with Multimedia projector with screen • The computer shall be of 6th generation, 4 GB RAM, hard disk 1 TB with online UPS 625 VA • List of Experiments should include • Effects of Drugs on Rabbit Eye • Bioassay of Histamine on the Ileum of Guinea Pig • Effect of Drugs on Ciliary Motility of Frog Oesophagus • Effect of Drugs on Isolated Frog Heart • Effect of Drugs on Isolated and Perfused Frog Heart • Effect of Drugs on Blood Pressure (BP) and Heart Rate (HR) of Dog • DRC of Acetylcholine on Frog Rectus Abdominis Muscle • DRC of Histamine on Guinea Pig Ileum • Effect of Physostigmine on the DRC of Acetylcholine on Frog Rectus Abdominis Muscle • Effect of Atropine on the DRC of the Acetylcholine on Rat Ileum • Effects of Spasmogens and Spasmolytics on the Rabbit Jejunum • Determination of PD₂ of Serotonin on Rat stomach Strip Preparation • Determination of PA₂ of Atropine on Rat Ileum using Isolated Rat Ileum Preparation (by Schild's plot method) • Determination of PA₂ of Prazosin on Rat Anococcygeous Muscle Preparation (by Schild's plot method) • Determination of PD₂ of Acetylcholine on Frog Rectus Abdominis • Determination of PD₂ of Histamine on Guinea Pig Ileum • Bioassay of Oxytocin on Rat Uterine Horn by Interpolation Method • Bioassay of Serotonin on Rat Stomach Strip by Three Point Assay Method • Bioassay of Atropine on Rat Ileum by Interpolation Method • Bioassay of Acetylcholine on Rat Ileum by Three Point Assay Method • Bioassay of Adrenaline by Interpolation Method using Isolated Rabbit Jejunum • Effect of Drugs on locomotor Activity in Mice using Actophotometer • Analgesic Activity of Drug in Mice using Eddy's Hot Plate • Anticonvulsant Effect of Phenytoin in Mice using Electroconvulsimeter • Effects of CNS Suppressant and Skeletal Muscle Relaxant Drugs on Mice using Rota-rod Apparatus • Routes of Drug Administration • Experimental Animals Routinely used in Pharmacological Research • Euthanasia in Experimental Animals
<p>Item no 38, Pharmacology equipments clinical pharmacy</p>	
	<p>Pressurized metered dose inhaler</p> <p>Dummy device without active API</p>
	<p>Spacer</p>
	<p>Dry Powder Inhaler</p>

	Dummy device without active API
	Insulin pump injector(pen) Dummy device without active API
	Insulin Pump Dummy device without active API
Item no. 39, Pharmacology equipments	
	Stop watch Stop watch reading at 1/5 second. :- Electronic with alarm settings upto seconds with battery
	BP instrument Digital BP instrument The instrument shall be LED based/digital Shall be ISO certified
	Critical flicker fusion apparatus
	Pupillometer
Item no 40, Pharmacology equipments- manniquin	
	It should be Multi-venous training arm kit maniquin with complete IV therapy training kit which includes a full size right arms with replaceable skin and vein designed for peripheral intravenous therapy. It should have following features: Anatomically accurate full arm model Rotation at deltoid for easier anterior and posterior vein access Multiple injection sites for IV insertion- dorsal veins of hand, median vein, basilica etc Shall have realism of the human arm in appearance Shall have palpable veins Subcutaneous and intramuscular injection may be performed in deltoid Shall have infusible veins which allows IV bolus Injected solution should be drained out by drainage tube Shall be supplied with a stand for giving lateral injection in supine position Shall have replacable skin and vein system. Shall be CE certified..
Item no 41, Environment decontamination system	
	<ul style="list-style-type: none"> • Should be designed to kill Bacteria, viruses and fungus in the indoor air. • Should eliminate other environmental pollutants like particulate matter and VOC . • Should have different modules for air filtration, air decontamination. <p>Air Filtration Module</p> <ul style="list-style-type: none"> • Should have multi-stage mechanical particle arrestors for removing particles with a very high efficiency. • Should have nano photo catalytic filter for continuously decomposing VOCs. • Should have non Zeolite based dual compound chemisorption filter for removal of gaseous pollutants including VOC. • It should have maintenance of air purification by 2 UV Lamps using Ultra Violet Germicidal Irradiation technique for maximum efficacy • It should monitor the UV intensity online & indicate UV change requirement either visually or acoustically. • It should have a continuous real time online monitoring of HEPA filter which should give an indication in case of choking breach of filter integrity. • The air flow should be adjustable between 430cubic meter/hr to 200 cubic meter per hour. • Should be made of non conducting, shock proof material <p>Air Decontamination Module</p> <ul style="list-style-type: none"> • Should use flash thermal energy for decontamination of air • Should not use any toxic chemical like ozone or disinfectants for air disinfection and decontamination • Should be fan free & chemical free <p>Controller System All the modules should be turned on/ off remotely using one controller Should be capable of handling air volume of > 3000 cubic feet. The system should be manufactured by high quality manufacturers. Must be ISO 9001-2008, ISO 14001 – 2004, ISO</p>

13485 - 2003, WHO – GMP/ GPP certified company
System should be European CE Certified as Class I medical device

Item no. 42, Microbiology-laminar Flow

LAMINAR AIR FLOW WORKSTATION (VERTICAL) COMPLETE S.S.
Switches shall be Microprocessor based Touch Panel for Blower, Fluorescent light & UV light. (UV light with Timer)& Motorized front door of toughen glass.
Pre-filter Efficiency shall be 90.00% Particle Retention > 5 micron.
HEPA Filter shall be ISO 14644 Class 5 (Class 100) 99.97%-99.99% down to 0.3 micron.Mesh guard for protection of HEPA Filter.
Airflow shall be Top to downward
Noise Level shall be 60 decibel ± 5%.
Velocity shall be 0.35-0.50m/sec.
Work Table shall be Made up of Stainless Steel 304gr.(Perforated)Cock for gas on work table.
Front door shall be Made of Toughen glass.
UV Lamp shall be 15/30W,
Illumination shall be LED Lights for easy operation.
Pressure Digital Manometer 0-50mm range with filter failure alarm.
Power Supply 230V ± 10V/50Hz single phase A.C.
Cabinet shall be made of 304gr.Stainless Steel.
Shall have Heavy Duty Blower Dynamically balanced with 0.25 HP Electric Motor Mounted on anti vibration pad 1440rpm motor..
Safety Features Voltage fluctuations Protection. Micro switches for UV & LED Lights.
Stand :Castor Wheels for easy movability. Front Wheels lockable with brakes.
Working area size shall be approx 120x60x60 cm.
Shall be ISO certified

Item no. 43, Microbiology Hot air oven & Incubator

Hot air oven

Should have a temperature range of surrounding plus 10 ± 2 degrees to 320 ± 20 degree
Should have advance preheating system
The exhaust flap shall be controlled by Electromechanical control
Chamber should be of stainless steel
Should work on convection mode which is natural
The Approximate volume is around 110 Ltr
Should have lcd display and system controller.
Should have USB port for recording data
Should have 24 point temperature calibration
Should have Temp Uniformity at 150 degree : 2 ± 0.05 K
Should have Temp fluctuation at 150 degree : 0.4 ± 0.005 K
The Recovery time after 30 second door opening at 150 degree shall be 18 to 22 min.
Demonstration of equipment may be asked prior to opening of financial bid
It should have class 2 safety device.
European CE or USFDA certified and capable of validation as per international standards Electrical safety conforms to standards for electrical safety IEC-60601 / IS- 13450

INCUBATORS.

Should have a temperature range of surrounding plus 5 ± 2 degrees to 100 ± 10 degree
Should have advance preheating sytem
The exhaust flap shall be controlled by Electromechanical control
Should have class 3.1 safety device.
Chamber should be of stainless steel
Should work on convection mode which is natural
Approximately 110 Ltr
Should have lcd display and system controller.
USB port for recording data
Should have full size inner glass door
24 point temperature calibration
Temp Uniformity at 37 degree : 0.4 ± 0.05 K

<p>Temp fluctuation at 37 degree : 0.1±0.005 K Time to heat up to 37 degree 57 ± 2 min. Demonstration of equipment may be asked prior to opening of financial bid European CE or USFDA certified and capable of validation as per international standards. Conforms to standards for electrical safety IEC-60601 / IS- 13450 Shall be supplied with one Air Conditioner of 2 tonne</p>

Item no .44, Non Referigerated centrifuge
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<p>Ñ The centrifuge must offer swinging bucket, fixed angle and microplate rotors to meet current and future sample processing needs of the lab.</p> <p>Ñ CE marked, UL listed- for safety containment</p> <p>Ñ The centrifuge must be capable of running 4 standard or 2 deepwell microplates, PCR strips and hematocrit capillaries.</p> <p>Ñ Rotor shall be installed and removed with no tools in less than 5 seconds.</p> <p>Ñ The buckets and rotor sealing lids must be certified for bio-containment by a 3rd party lab of worldwide recognition.</p> <p>Ñ Bucket lids must operate in a safe manner without spring clips or metal components.</p> <p>Ñ The centrifuge must be capable of running up to 24 x 5ml or 7ml blood collection tubes and 16 x 10ml blood collection tubes in certified sealed conditions.</p> <p>Ñ The centrifuge must be capable of running up to 8 x 50ml or 15 ml disposable conical tubes.</p> <p>Ñ The centrifuge must be capable of running up to 30 spin columns in certified sealed angle rotor.</p> <p>Ñ The centrifuge must be capable of running up to 12 microtubes in swinging bucket rotor with maximum g-force of 16,438 xg</p> <p>Ñ The centrifuge must be capable of running at least 6 x 50 ml or 15ml conical tubes in biocontainment certified angle rotor.</p> <p>Ñ The centrifuge must have a swing out rotor capable of spinning samples above 16,000 xg.</p> <p>Ñ The centrifuge must have a low profile (not to exceed 12.2"/31cm) for easy access by end-user</p> <p>Ñ The centrifuge must have a minimum of 4 "direct recall" program keys</p> <p>Ñ Supplier should quote for the following rotors, user select as per requirement</p> <ol style="list-style-type: none"> 1. 50ml rotor with 15 ml adaptor Swing Bucket Rotor 2. 1.5ml/2ml Rotor 3. Rotor for micro well plates

Item no. 45, Microbiology Dept: Referigerated centrifuge

<p>Ñ The centrifuge must offer swinging bucket, fixed angle and microplate rotors to meet current and future sample processing needs of the lab.</p> <p>Ñ CE marked, UL listed- for safety containment</p> <p>Ñ Centrifuge should have temperature Range -10°C to 40°C</p> <p>Ñ The centrifuge must be capable of running 4 standard or 2 deepwell microplates, PCR strips and hematocrit capillaries.</p> <p>Ñ Rotor shall be installed and removed with no tools in less than 5 seconds.</p> <p>Ñ The buckets and rotor sealing lids must be certified for bio-containment by a 3rd party lab of worldwide recognition.</p> <p>Ñ Bucket lids must operate in a safe manner without spring clips or metal components.</p> <p>Ñ The centrifuge must be capable of running up to 24 x 5ml or 7ml blood collection tubes and 16 x 10ml blood collection tubes in certified sealed conditions.</p> <p>Ñ The centrifuge must be capable of running up to 30 spin columns in certified sealed angle rotor.</p> <p>Ñ The centrifuge must be capable of running up to 12 microtubes in swinging bucket rotor with maximum g-force of 16,438 xg</p> <p>Ñ The centrifuge must be capable of running at least 8 x 50 ml or 15ml conical tubes in biocontainment certified angle rotor.</p> <p>Ñ The centrifuge must have a swing out rotor capable of spinning samples above 16,000 xg.</p> <p>Ñ The centrifuge must have a low profile (not to exceed 12.2"/31cm) for easy access by end-user</p> <p>Ñ The centrifuge must have a minimum of 4 "direct recall" program keys</p> <p>Ñ Supplier should quote for the following rotors, user selection as per requirement</p> <ol style="list-style-type: none"> 4. 50ml rotor with 15 ml adaptor Swing Bucket Rotor 5. 1.5ml/2ml Rotor 6. Rotor for micro well plates

	7. 24X5ml rotors
Item no 46, Microbiology equipments Misc	
	The manufacturer shall be ISO certified.
1	Anaerobic apparatus: Transparent polycarbonate anaerobic
2	Distilled water Plant :- Manesty type made of Stainless steel , electrically operated ,approx. output 3/4 liter .
3	Micrometer eye pieces
4	Micrometer stage
5	Serum inspissators
6	VDRL shaker :- Carrier size 13x13 fitted with geared motor with motor with concentric motion along with switch range 0 to 5 minutes. Operated on 220/230 volts ac only.
7	Vortex Mixer :- Compact stable design, adaptor available for tubes etc. and continuous or touch operation, electronic speed control for constant speed even during changes in load, steel base, silicon feet for ultra stability and vibration damping, To be supplied with a fractional workable motor on 220V AC completed with indicator, plug & cord.
8	Colony Counter :- Improved dark field. Complete with tube light Wolt Huegor counting plate and magnifier
9	Oil-immersion lens for student microscope
Item no. 47, Dept of pathology Pentahead microscope	
Sr No	Desired bid's Technical Specification Point wise
	<p>Penta head microscope Should have Teaching Head for five persons(Including the main observer) FOV20mm in all Heads. Should have dual color built in LED Pointer Should have Infinity corrected optical system upgradable to DIC and Fluorescence Microscope should have ergonomic stand with atleast 12V50W Halogen Illumination or LED. System should have blue day light filter Should have Wide Field Trinocular Observation tube with FOV 20mm & inclined at 30 degree or less. Provided with paired WideField Eyepieces, System should have at least 2 position 1X& 2X intermediate magnification changer to achieve total magnification of 2000X Eyepiece Lens shall be 10X or higher/20mmFOV or higher with diopter adjustment facility in both Shall have Quintuple Revolving Nosepiece. Shall have the Objectives of 4X, 10X,20X,40X,100XO Plan Achromats The mechanical stage with double sliding holding capacity shall be ceramic coated The Condenser shall be have bright Field Applications with NA 1.1 or better Image Analysis System shall be - Digital HD Scientific Grade Camera (CMOS/CCD) 5 MpIX OR higher resolution Frame rate 5FPS at Full Resolution, Binning 2x2, 4x4,USB /Fire Wire interface with imaging software having features like image Stitching, measurement, extended depth of field, segmentation & count, image stacking, Time lapse Imaging, auto exposure & white balance The Computer Work Station shall be Core i3 Processor with 320GB HDD or higher, 2GB or higher RAM, DVD R/W, 52" or higher LED Color Monitor/TV, UPS, Windows 7 or 8 OS, Optical Keyboard& Mouse Product must be USFDA and documents shall be enclosed in the technical bid It shall be supplied with all covers, accessories, furniture to keep it at visualized height in order to be functional at the time of installation</p>
Item 48, Dept of pathology Electrophoresis set up	
	<p>A. Horizontal electrophoresis system</p> <ol style="list-style-type: none"> Horizontal electrophoresis systems should be able to run the gel sizes of 7 x 10cm, 7 X 7 cm, and 15 X 10, 15 X15 cm in two different units and the gel trays should be supplied along with the Gel tank with safety lid. The supplied gel trays should be UV proof and the trays can be directly kept on the UV Transilluminator and should have a integrated fluorescent ruler in the tray. The ruler should get illuminated on exposure to UV Light for easy and safe calculation of the band movements. A system should include tape free gel casting module for leak free operations. A system should include two 1.5mm combs, 15- & 20-well fixed height combs each. A system should have the option for adjustable height combs with comb holders. Migration rate of Bromophenol Blue dye should be similar to 4.5cm/hr(at 75 V).

7. A system should have a lid with the safety Jacks, which breaks the circuit when the lid is running.
8. Should be provided with a bubble leveler for even gel casting.
9. The gel caster should have height adjustable screws for balancing the uneven platforms for uniform gel casting.
10. The electrodes should be color coded
11. The Lid should have a safety option so that the lid cannot be closed in the wrong orientation.
12. The Lid should have a integrated cables to connect it to the power pac directly.
13. A system should be capable to run precast ready agarose gels and Hand Cast gels.
14. The PreCast Gels should be quoted from the same supplier and should be quoted in the options.

B. Vertical Electrophoresis Unit

Mini Unit

The system should be capable of accommodating & simultaneously running 1 to 4 mini gels in less than an hour.

- The system should include a casting stand and glass plates with permanently bonded gel spacers for leak proof casting of gels
- The system should be capable of accommodating interchangeable modules for tank transfer, 2-D electrophoresis & electro-elution.
- The system should come with molded, one-piece buffer dam when running (only) one or three gels.
- The system should come with color coded electrodes
- The system should be capable of accommodating 5 well, 8/9 well, 10 well, 15/16 well & Prep/2D combs for sample volumes ranging from 20-150 µl or better.
- System should be supplied with a starter kit of acrylamide solution with dissolved fluorescence dye such that the PAGE gel after running does not require any staining for visualizing proteins in gel.
- The system should be capable of accommodating Gel size (W x L) approximate 8.0 x 7.5 to 10X 10 cm maximum.
- The system should have buffer volume approximate 800ml or less. Should have EN61010 safety

C. Power Pack for running Horizontal & Vertical Gel Electrophoresis

The system should have:

1. **Output specifications** - 500 V, approximate 2.0 A or more, 500 W
2. **Type of output** - Constant voltage, constant current, or constant power with automatic crossover
3. **Output terminals** - 4 pair recessed banana jacks floating in parallel
4. **Timer control** shall be fully adjustable
5. **Certification** EN61010-1

D. Western Blotting Specification

Wet Blotting Module-

- It should be compatible with the Mini SDS-PAGE Unit.
- It should be capable of doing the western blotting of the mini gels.
- It should be able run minimum 2 blots simultaneously
- It should have a cooling pack and blotting cassettes to blot two gels simultaneously.

Compulsory accessories: Gel rocker shaker for staining of gel and Adjustable tip spacing electronic pipette 5-125ul for gel loading and sample handling.

The warranty shall be 3 years followed by CMC of 5 years. The company engineer shall rectify the issues pertaining to equipments within 48 hours of breakdown

Item no. 49, Dept of pathology fully automatic coagulation analyzer

- It should have High Throughput continuous, random access fully automated analyzer with STAT Capability at any position used for hemostasis testing.
- It should be Capable performing Clotting, Chromogenic & immunological tests like PT, APTT, TT, Fibrinogen, Protein C, Protein S, Free Protein S, Antithrombin, D-Dimer, VWF Ag, vWF Activity, Plasminogen, Anti plasmin, Homocysteine, Factor assays (clotting) & other Special Parameter, FXIII Ag. Intergrated tests for dRVVT and SCT (Screen and Confirm reagents).
- It should be Based on centrifugal technology can perform atleast 140 tests of PT and 100 tests of APTT in an

hour.
<ul style="list-style-type: none"> • It should accommodate at least twenty reagents and samples which can be put in primary tubes / sample cups at a time. • It should have probes for sample and for reagent handling separately. • It should have LCD touch screen, external printer, on board internal reader for the positive identification of samples and barcode reader for the reagents. • It should have Capability of at least 40 sample positions with the ability to use both primary tubes and sample cups simultaneously with or without barcode. • It should have Continuous loading of reagents, samples and consumables (cuvettes) and STAT samples without interrupting the workflow of the analyzer. • It should have automated dilution of samples, standards and controls with the ability to do automatic redilution in case of test results beyond the linearity of the assay (rerun) and reflex testing. • It should have complete internal QC program with different levels of controls and charts (Levey Jennings). • It should have Automatic liquid level detection for samples and reagents. • Company should have all reagents and calibrators/ quality controls for smooth running. • It should have Storage of patient records • It should be USFDA approved and certificate must be enclosed with the bid • Firm should ensure rodent control for their instrument. • Firm shall provide list of consumables and reagents used in the equipments in the technical bid • Firm shall provide split Air conditioner of 1.5 ton 5 star rated • Firm shall provide the user list from NABL accredited labs. • The warranty shall be 3 years followed by CMC of 5 years. The company engineer shall rectify the issues pertaining to equipments within 48 hours of breakdown

Item no. 50, Dept of pathology -model

The size of the specimen shall be 12 X 18 Inch
Molluscum Contagiosum
Lupus Vulgaris
Lichen Planus
Psoriasis
Facial Lesions of chronic discoid Lupus erythematosus
Clinical appearance of bullous Pemphigoid.
Clinical appearance of Darier's disease
Verrousous carcinoma of skin
Multiple Basal Cell carcinoma in skin.
Pigmented Basal Cell carcinoma in skin
Pilar Tumor of 5 year duration
Appearance of Ameloblastom
Appearance of Osteosacoma of Mandible
Gross Roentgenographics Tumor
Rhinosporidiosis
Rhinoscleroma
Adenocarcinoma
Lethal Midline Granuloma
Angiofibroma (Nasopharyngeal)
Lung (Cystic Fibrosis)
Lung Abscess complicated by Fungus ball
Granulomatosis (Sarcoidosis)
Large Peripheral Carcinoma
Clear Cell Carcinoma
Hashimoto Thyroiditis
Colloid goitre
Follicular adenoma
Folliular carcinoma thyroid
Medullary Carcinoma Thyroid.
Papillary Carcinoma
Carcinoma Stomach (Linitis Plastica)
Gastric adenocarcinoma Polypoid

Crohn's disease
Cut surface of carcinoid tumor of llium
Inflammatory fibroid polyp
Malignant melanoma
Barett's Oesophagus
Parasite in Bronchus
Peptic ulcer in lesser curvature
Gastric ulcer in greater curvature
Moist gangrene of intestine
Acuter necrotizing small intestine Inflammation- billar.
Amoebic dysentery
Illiocaecal tuberculosis
Parasitic infiltraion of intestine.
Typhoid ulcer
Tubercular ulcer
Megacolon (Hirschprung's diseases)
Gastric carcinoma- Linnitus Pastica
Gastric carcinoma- Polypoid
Ulcerative colitis
Cronh's Disease
Polyps in intestine
Stricture of Intestine
Carcinoma of left colon
Carcinoma of right colon
Anorectal Carcinoma
Mechel's diverticulum
Intussenception on intestine
Carcinoma of head of pancrease.
Hourglass stomach
Accute appendicitis
Chronic appendicitis
Mucocile of appendix
Carcinoma liver
Liver abscess
Hydatid cyst of liver
Hepatoblastoma
Wilms Tumor
Multicystic nephroma
Clear cell sarcoma
Renal cell carcinoma
Cloudy swelling of Kidney
Polycystic Kidney Disease
Infarction of kidney
Amyloidosis of kidney.
Cystic Renal
Chronic Glomerulonephritis
Chronic Pyelonephritis
Benign Nephrosclerosis
Hydronephrosis
Nephrolithiasis
Ureter Stone
Lardacepus Kidney
Contracted Kidney
Congenital Abnormal Kidney
Renal Cell Abnormal Kidney
Nephroblastoma.
Seminoma
Terato carcinoma mature

Yolk sac Carcinoma
Leyding cell tumor
Melonama of vulva
Rhabdomyo sarcoma of vagina
Puerpurial endometritis
Complete Hydatiform mole
Carcinoma in situ
Anatomy of normal female genital tract
Teratoma of overy
Uterine cervix-exophytic squamous cell
Leydig's cell tumor
Fibroma cervix
Mucoid cystadenoma ovary
Serous Cystadenoma ovary
Dysgerminoma of ovary.
Ectopic pregnancy in fallopian tube
Brenner tumor ovary
Metastatic tumor to ovary from stomach
leiomyoma of uterus
Granulasa cell tumor
Mucinous cystadenoma
Chocolate Cyst ovary.
Serous cystadnoma
Fibradenoma in adolescent female
Fibrocystic disease
Mucinous carcinoma of breast
Paget's disease of nipple
Carcinoma breast
Tuberculosis Lymphnode
Cat Scratch Disease
Lymphoma
Osteo sarcoma of upper femur
Central chondro sarcoma of lower femur
Large osteochondroma of femur with bilobed appearance
Ewing's sarcoma of fibula
Aneurysmal bone cyst of lower end of fibula
Dry gangrene of foot
Dry gangrence of hand
Macerated specimen of Osteomyelitis of tibia
Osteoid osteoma.
Non ossifying fibroma
Maduramycosis of foot
Squamous cell carcinoma of hand
Squamous cell carcinoma of foot
Squamous celcarcinoma of ankle
Oesteosarcoma of mandible
Fillariasis of foot
Osteosarcoma of joint
Osteosarcoma of Upper femur.
Giant cell tumor
ondrosarcoma
Osteomyelitis
Chondroma
Ewing's Sarcoma
Pathological fracture of bone
Tumor of Flate bone
Secondaries in spinal cord
Ricket's in child

Choroid Plexus Papilloma in lateral Ventricular of an infant.
Medullo blastoma
Meningioma
Anaplasitics Astrocytoma.
Retinoblastoma
Fibrocaceous Tuberculosis of Lung
Primary TUberculosis of Lung
Anthracaosis of Lung
Parasite in Bronchus
Cystic Fibrosis of Lung
Bronchopneumonia
LobarPneumonia- Grey Hepatisation
Lobar Pneumonia- Red Hepatiasation
.Emphysema of Lung
Advanced silicosis of Lung
Secondaries in Lung
Leydig's Tumour testis.
Germ cell tumor testis
Condylomata accuminata of Penis
Anatomy of normal male genital tract
Teratoma of normal male gental tract
Seminoma testis
Benigm Prostatic Hyperplasia
Hydrocele
Filariasis of scrotum
Syphilitic chancre in penis of scrotum
Squmaous cill carcinoma of penis
Massive haemorrhage in adremal gland
Adrenal Cortical adenoma
Pheochromocytoma of adrenal gland.
Adrenal Neuroblastoma
Vegetation of Valve of bacterial endocarditis
Vegetation of Valve of Rheumatic fever
Aneurysm of ventricle
Syphilitic abeurysm
Cylindriacal aneurysm
Saccular aneurysm
Berry aneurysm
Thombosis in common iliac artery
Atherosclerosis in abdominal aorta
Core pulmonale
Myocardial infarction
Amyloidosis of myocardium
Fibrinous pericarditis
Mitral stenosis (Fish mouth)
thrombus in atrium or ventricle
Fatty liver
Amoebic liver abscess
Amoebic liver Cirrhosis
Micronobular Cirrhosis
Macronodular Cirrhosis
Mixed nodular Cirrhosis
Hepatocellular carcinoma
Secondaries in liver
Billiary cirrhosis
Benign tumor of liver
Lymphangioma of liver
Stone in gallbladder

.Tonsillitis with laryngitis
Leucoplakia of hard palate
Carcinoma of tongue
Mucofibrosis of cheek
Brownish patch of cheek
Hmangioma lips
Basal cell carcinoma, angle of to ear
Pleomorphic adenoma parotid gland
Ameloblastoma, mandible
Angiofibroma nose
Rhinosporiodosis
T.B. lymph node
Fungal granuloma
Retinoblastoma
Neurofibroma
Rhabdomyosacroma
Kaposi Sarcoma
Liposarcoma periosteum
Liposarcoma thigh
Liprosarcoma periosteum
Fibtosarcoma
Leiomyoma
Sacroccocigeal teratoma
Kwashiorkor (Infants with generalised oedema and puffiness of face
Down syndrme – Foetus
Amyloidosis of spleen
Infarction of spleen
Pituitary Adenoma
Gaucher’s disease in spleen.
Tatto pigments

Dept of pathology

Item no. 51, Automatic high speed slide scanner

Automatic high Speed Slide Scanner for converting slides in Digital Format with software and Database Management with backup for Data Storage
Scanning time: 15x15mm -3 minutes at (40X magnification)
Focus: Real/ time autofocus
Camera sensor: 2/3" CMOS/CCD Sensor
2 cameras system: one for high resolution camera for Image Scanning, a Real-time focusing camera & another for Macro camera for macro image & barcode
.
Resolution 20X: 0.52µm/pixel; 40X: 0.26µm/pixel
Objective: Plan APOCHROMAT 20X/0.75
Light source 10W LED (Lifetime: 25,000 Hours)
One-click scanning mode Real time autofocus, High precision autofocus, Three dimensional stack, High precision autofocus
One click scanning operation: with a click on the scan mode, the system automatically detects the scanning area and scan.
Auto Up-Load to server: once the slide is scanned, the image can be automatically uploaded to specified server or cloud
Slide Capacity: 6 slides or more
Slide tolerances (mm) Length: +0/-1, Width: +0/-1
Barcode recognition: Read most barcode used in medical industry
Computer: Intel Quad Core Processor (3.4GHZ, 8MB) 16GB Memory / HD 2TB SATA (7200rpm)
Disk, DVD Recorder, Windows 7 Professional 64bit or higher
Monitor: HD LED Monitor 24"
Software included: Viewing software, Scanning software, Digital Slide Management software for Data management and internet slide library
Data storage: Data storage backup atleast 10 TB Disk for storage of large Data, Digital Slides. It should

also have option for further expansion in Future
 Equipment shall be supplied with accessories to make it functional. The slide tray/slide rack/slides shall be supplied. It shall be supplied with online UPS with battery of 2 hours battery back up and dust cover.
 Shall be CE certified.
 The warranty shall be 3 years followed by CMC of 5 years.
 The company engineer shall rectify the issues pertaining to equipments within 48 hours of breakdown
 The vendor shall give training at the respective medical college for operation of this equipment.
 One AC of 2 tonne split with stabilizer

Item no.52, Dept of pathology tissue processor

The quoted model should be walk-away tissue processing with enhanced tissue quality with touch screen

- Should be Automatic in-process reagent rotation—no manual handling of reagents.
- The equipment with 16 Reagent stations and 3 wax baths
- Automatic first alcohol quality monitoring should be available
- Shall have Disposable wax tray system.
- The basket capacity should be atleast 300 cassettes
- The provision to run rapid biopsy protocols should be there
- Daily operations mode for rapid start of routine protocols.
- Systematic logging and reporting of quality control data, event records, and program information should be available in the quoted model.
- Three distinct fill levels with censor in processing chamber to shorten processing times should be available
- Eight customized programs and eight flush options should be available
- Inbuilt battery backup for at least 40 min to accomplish specimen safety and protection during power failure
- Shall have password-protected areas
- Web-based instrument monitoring system for rapid remote diagnosis should be available
- International icons to accommodate all users; multi-lingual.
- USB connectivity should be available
- Unique reagent monitoring and management system should be available
- Reagent pre-heating option should be available for rapid processing.
- Continuous agitation circulates reagents freely around specimens should be available.
- Baskets should be microwavable and designed to be used in conjunction with microwave secondary-fixation.
- Built-in downdraft ventilation to minimize operator exposure to hazardous vapors should be must .
- Reagent storage cabinet is built to enhance safety standards and is vented through two additional filters for further fume control.
- Independent remote alarms alert user of any issues.
- Shall be supplied with air conditioner of 1.5 tonnes and UPS with battery backup of 2 hours.
- The system shall be European CE certified/USFDA
- The warranty shall be 3 years followed by CMC of 5 years. The company engineer shall rectify the issues pertaining to equipments within 48 hours of breakdown

Item no. 53 Single channel and multi channel pipette

Single channel pipette

Shall have Separate tip ejector.
 Shall have Easy volume selection.
 Shall have 3/4-digit volume display.
 Shall have Extremely smooth piston movement.
 Shall be Robust and fully autoclavable
 It should have the feature of UV- sterilization.
 It should have the ceramic or fortron piston to avoid the corrosion free and chemical resistant.
 It should have the spring loaded tip cone with in-built variable aspiration and dispensing speed function.
 It should be quoted with pipette stand for at least six pipettes.
 0.0 ul – 5 ul

<p>0.1 ul - 2.5 ul 0.5 ul - 10 ul 10 ul - 100 ul 100 ul - 1000 ul 0.0ul - 10ul 0.0ul - 50ul</p> <p>Certification Shall be IVD approved demonstration is mandatory.</p>

<p>Multi channel pipette</p> <ol style="list-style-type: none"> 1. Should be Light weight, Least RSI (Repetitive Strain Injury) 2. Advanced volume gearing- Modular volume adjustment mechanism prevents sudden change in the volume setting. 3. Fully Autoclavable 4. Piston should be made up of rust free Polyether Imide. 5. Separate soft touch tip ejector 6. Ergonomic design 7. In lab calibration and easy maintenance - Easy to open (No special tool required) 8. Extremely light weight reduces the risk of Repetitive strain injury 9. Super blow out piston with volumes of 50 ul and below volumes ensures delivery of micro size drops. 10. Five years warranty with Online web registration

<p>Item no. 54 Waste water treatment unit for Pathology, Microbiology Labs</p>

<ul style="list-style-type: none"> • Automated System to treat Liquid Medical Waste at the place of its generation. • Minimum 150Ltrs per cycle capacity. • Capacity to automatically treat minimum waste level between 10 to 150Ltrs. • The equipment must have a washing / Scrubbing bay as well as Instrument rinsing bay & the provision to drain other liquids waste as well. • SS-304 Body, Wall Mounted, Minimum bay depth shall be 16” or more, Instrument rinsing tray, elbow guided tap for washing & rinsing tap for instruments. • The liquid waste shall get collected directly into WTU having level indicators having real time level reading to avoid overflowing or spillage & must have at least 7” Touch Screen Display & USB compatible data logging. The user screen must be password protected & shall display the user hospital name on all screens. • Equipment must store minimum 1000 cycles data records and be compatible for transfer of data to computer. • Audio Visual Alarm for Minimum & Maximum levels of NaClO and WTU. • NaClO& WTU Levels must be displayed in Ltrs in realtime. • The Automatic dosing of NaClO takes place in the machine at regular intervals of time and the treated waste is discharged automatically to the sewage line at the completion of every treatment cycle. • Facility to manual override to automation in case of requirement or emergency. • The waste must be treated as per the guidelines of Pollution Control Board. • Must be ISO & CE Certified & manufacturer shall be WHO GMP Certified. • The bidder shall install the machine at desired place and the works(Civil/plumbing/electrical) will be borne by the bidder

<p>Item no. 55 Pathology and Microbiology</p>
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<p>Water purification system</p>

<p><u>Schedule-I : Water Purification System</u></p> <ol style="list-style-type: none"> 1. The system should be designed to handle hard water conditions having feed water Conductivity upto 2000 microS/cm, Free chlorine- 2 – 3 ppm & Fouling Index upto 20 or better. 2. There should have separate Pre-filtration unit with 5 micron, 1 micron filter to remove the particulate matter

with inbuilt Booster pump to maintain feed pressure of system should be provided.

3. The Pretreatment should not be local but it should be from the same vendor with datasheet on vendor's letter head should be attached in the Bid.

A. 1st stage system for RO EDI Type 2 water laboratory applications

The unit should have the following purification stages:

1. Pre-treatment Cartridge contains (Activated carbon, Silver, Anti scaling agent and 0.5 micron in single pack) to safeguard RO cartridge should be available to increase the life of downstream process. The Cartridge should have RFID tag which displays the total throughput of Cartridge in the display.
2. Reverse osmosis should be able to reject >95% of ions and organics, The RO must have constant flow rate
3. of product at any working temperature between 5-35 deg C.
4. There must be display of RO performance (RO % ionic rejection etc) on the system display.
5. It should have the technology to minimize the RO Reject water to save water, which should be indicated in schematic diagram of the system.
6. System should have Electro Deionization module to eliminate the frequent replacement of costly DI resins.
7. Water quality: Flow rate: minimum 3 L/hr, Type 2 water (Ions organics removal up to 99%, Resistivity: > 5-15 Mohm.cm, TOC < 30 ppb)
8. Reservoir minimum 50 Litres with auto cut-off Tank level sensor.
9. System should have prompt error if any sensor is malfunctioning. Supporting data on alarm or mentioning in the manual should be enclosed.
10. Display: The Display must show the Tank level; RO Product conductivity/Resistivity, EDI Product resistivity/Conductivity; RO ionic Rejection %.
11. System must have option of inbuilt free software to connect it through any PC/Laptop to download the History of 2 years,
12. The PE storage tank of minimum 50 Lit should be provided along with the system with Tank level sensor
13. of float type, it should possess a tank vent filter.

2nd stage system Type 1 water analytical applications

Ultrapure water machine producing water of :-

Resistivity: 18.2 MΩ.cm at 25 °C

TOC ≤ 5 ppb (µg/L)

Bacteria < 0.01 CFU/mL

Pyrogen Level (EU/mL) < 0.001

RNases (pg/mL) < 1

DNases (pg/mL) < 5

Bacteria (cfu/mL) < 0.1

Feed water: conductivity < 100 µS/cm and TOC < 50 ppb

Product water flow rate: upto 2 Lit/min

2. Automatic recirculation feature.
3. Feed water should pass through feed water specific cartridge for removal of trace contaminants and also should possess RFID tag, it should act as Primary Purification cartridge.
4. System must have primary and secondary polishing cartridge and a UV lamp in between them.
5. System should have dual wavelength UV lamp (254nm and 185 nm) to control the TOC and microbacteria.
6. Both the Primary and secondary cartridge should contain mixture of activated carbon and mixed ion exchange beads to reduce Ionic and organic level,
7. Both the cartridge should have RFID tag to display the total water throughput of the cartridge.
8. There should be an Intermediate conductivity meter (Indicated in system schematic) between
9. both the cartridge.
10. System must have accurate online Resistivity and TOC value for the dispensing water on System display.
11. System must have easy water delivery: Manual water delivery and Volumetric water delivery:
12. System should be delivered with a Ultrafiltration Cartridge with more than 10KDa & less than 14 KDa Cutoff for better flow rate through it.
13. To guarantee compliance with minimum laboratory safety requirements, and to ensure that both the water purification

system (type 2 & Type 1) meets internationally-recognized safety norms, the water purification system shall be listed

with Underwriters Laboratories (both UL and ULC), and will carry the CE mark, indicating compliance with EC Directives.

14. The Consumable and final filter must be supplied with Quality certificate from the OEM.
15. Apart from user manual the manufacturer should provide a short guide briefing on system operation to be available with the system.
16. System should have option to upgrade with an attachment of a remote dispenser with Adjustable height and rotating arm-adjustable to any glassware also volumetric dispensing from 250 ml till 60L can be set from the system.
17. System must have option of inbuilt free software to

connect it through any PC/Laptop

System to be quoted with 3 years warranty. Consumables cost for warranty & CMC period to be quoted by vendor & consumable prices will be freezed for 3 years

