DOMESTIC

TENDER ENQUIRY DOCUMENT

FOR PURCHASE OF
MEDICAL EQUIPMENT
FOR 07 NEW MEDICAL COLLEGES IN MADHYA PRADESH

On behalf of
GOVT. OF MADHYA PRADESH

DIRECTORATE OF MEDICAL EDUCATION & RESEARCH
HITES/PCD/MP/03/PRECLINICAL/17-18

Through

HLL INFRA TECH SERVICES LIMITED
(Subsidiary of HLL Lifecare Ltd., a Govt. of India Enterprise)
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SECTION I

NOTICE INVITING TENDER (NIT)

Tender Enquiry No.: HITES/PCD/MP/03/PRECLINICAL/17-18 Dated:27.10.2017

(1) Procurement & Consultancy Services Division of **HLL Infra Tech Services Limited (HITES),** a fully owned subsidiary of HLL Lifecare Ltd. (HLL), for and on behalf of Govt. of Madhya Pradesh, Directorate of Medical Education & Research, invites sealed tenders, from eligible and qualified tenderers for supply of Medical Equipment in departments of **Anatomy, Physiology, Biochemistry, Pathology, Microbiology, Pharmacology, Forensic Medicine & Community Medicine** to 07 upcoming Medical Colleges/ Institutes in Madhya Pradesh as mentioned in this Tender Enquiry Document:

Sl. No.	RFx. No.	Equipments	Quantity	Tender Processing Fee	EMD
1	3000002343	Mortuary cooler with arrangement to keep 1 body	7	590	14,000
2	3000002344	Embalming machines for cadavers	7	590	4,900
3	3000002345	Meat cutting machine for thin body sections	7	590	11,200
4	3000002346	Microscopes Monocular	680	2,360	149,600
5	3000002347	Dissection microscope	203	2,360	142,100
6	3000002348	Rotary Microtome	14	590	5,600
7	3000002349	Sledge & Freezing Microtomes	7	590	4,200
8	3000002350	Binocular Microscopes	1294	3,540	517,600
9	3000002351	Binocular Microscopes with Projection Screen	14	590	19,600
10	3000002352	Polygraphs	7	590	28,000
11	3000002353	Gas analyser automatic for CO2, O2, N2	7	590	21,000
12	3000002354	Multi channel Physiograph, 3 channels	16	590	48,000
13	3000002355	Gas analysis apparatus, Halden's student type	7	590	11,200
14	3000002356	Student Physiograph, (single channel)	46	1,180	92,000
15	3000002357	Digital Physiograph	9	1,180	57,600
16	3000002358	ECG Machine- Single Channel	16	590	6,400
17	3000002359	Complete Chromatographic Unit for paper & TLC	14	590	8,400
18	3000002360	Complete Electrophoresis apparatus with power supply (Paper, PAGE, agarose)	14	2,360	140,000
19	3000002361	Densitometer with computer	7	590	14,000
20	3000002362	Balance Semi Micro	58	1,180	58,000
21	3000002363	Balance Micro	7	590	8,400
22	3000002364	Spectrophotometer	14	1,180	95,200
23	3000002365	ELISA Reader(Demonstration)	7	590	28,000
24	3000002366	Incubator, electric	37	1,180	74,000
25	3000002367	Ice Lined refrigerator (I.L.R.)	7	590	21,000
26	3000002368	Autoclave	37	590	22,200
27	3000002369	ECG- 6 Channel	7	590	5,040
28	3000002370	Biosafety Cabinet Type - 2A	21	3,540	273,000
29	3000002371	B.O.D. Incubator	7	590	17,500
30	3000002372	Centrifuge,electrial high power	23	590	11,500
31	3000002373	CO2 Incubator	14	2,360	140,000
32	3000002374	Deep freezer (-20 degree Celsius)	14	590	35,000
33	3000002375	Deep freezer (-80 degree Celsius)	7	1,180	70,000
34	3000002376	Elisa Reader,washer&dispensor	9	2,360	180,000
35	3000002377	Hot Air Oven	14	590	28,000
36	3000002378	Laminar flow table	7	590	28,000
37	3000002379	Microscope Trinocular (Teacher)	42	590	16,800

Sl. No.	RFx. No.	Equipments	Quantity	Tender Processing Fee	EMD
38	3000002380	Serum inspissators	7	590	14,000
39	3000002381	Automated Blood Culture System	7	3,540	210,000
40	3000002382	Weighing machine for cadavers (300 Kg.)	14	590	14,000
41	3000002383	Semi- Automated Rotary Microtome	21	2,360	126,000
42	3000002384	Cryostat(Freezing Microtome)	7	3,540	210,000
43	3000002385	Automatic tissue processor	14	1,180	84,000
44	3000002386	Autopsy table	44	3,540	440,000
45	3000002387	Penta Head Microscope	7	2,360	168,000
46	3000002388	Deca Head Microscope	7	3,540	210,000
47	3000002389	Grossing Work Station	7	1,180	98,000
48	3000002390	Five part Fully Automated Cell Counter	14	2,360	168,000
49	3000002391	Three Part Fully Automated Cell Counter	21	2,360	168,000
50	3000002392	Automated coagulation analyzer	9	1,180	54,000
51	3000002393	Fluorescent Microscope	7	3,540	210,000
52	3000002394	Automated Hematology Slide Stainers with workstation	7	2,360	140,000
53	3000002395	Infusion pumps(Insulin or Drug or Bed side)	80	1,180	64,000
54	3000002396	Manikins for demonstration of intravenous injection, enema, local, intramuscular injections, intracardiac injection and other routes of drug administration	80	2,360	160,000
55	3000002397	Computer Assisted Learning software	7	590	21,000
56	3000002398	Binocular Research Type With Camera Attachment	7	590	5,600
57	3000002399	Cold Storage For Dead Bodies	16	3,540	320,000
58	3000002400	OT light Shadowless adjustable	7	1,180	56,000

Note: Tender processing Fee is inclusive of GST @18% (Our GSTIN: 09AADCH4882R1ZP)

(2) Tender timeline:

Sl. No.	Description	Schedule
a.	Last date for receipt of Pre-bid queries	06.11.2017,06.00 PM
b.	Pre-bid meeting date, time	07.11.2017, 11:00 AM **6th Floor Conference Hall, DME, Satpura Bhawan, Bhopal**.
d.	Closing date & time for submission of online bids	29.11.2017, 06:00 PM
c.	Closing date & time for submission of **tender processing fee and EMD in physical form***	30.11.2017, 02:00 PM
e.	Time and date of opening of online bids	30.11.2017, 02:30 PM
f.	Venue for :- • Submission of tender processing fee, EMD in physical form. • Tender Opening-Tech Bid	HLL Infra Tech Services Limited, Procurement & Consultancy Services Division, B-14 A, Sector-62, Noida-201307

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

SPECIFIC Instructions for e-Tender Participation:-

(3) The tenders are invited through the e-tender portal of HLL/HITES (https://etender.lifecarehll.com/irj/portal) only.

(4) The prospective bidders have to register in the e-tender portal for participating in the tender. There is no registration fee. The instruction for registering in the portal along with video tutorial is available in the *Bidder Help Documents* provided in thee-tender portal login screen.

(5) Bidders should have a valid Class 3 Digital Signature Certificate with signing and encryption keys.

(6) On completion of the registration process, the bidders will be provided user ID and password within 72 hours (excepting non-working days). In order to submit the bids electronically bidders are required to have a valid Class 3 Digital Signature Certificate (**signing and encryption/ decryption certificates**).

(7) Bidders can access the portal for viewing/ downloading the tender enquiry document& uploading tender(s) after the receipt of User ID & Password.

(8) Bidders are requested to go through the *Bidder Help Documents* on e-tender portal before proceeding for bidding.

(9) The bidders shall submit the required Tender Processing Fee (in form of Demand Draft or Banker's Cheque) and EMD (as per GIT clause no. 19.3) in physical form in favour of 'HLL Infra Tech Services Limited' at the scheduled time and venue. Tender processing Fee is required from all the bidders irrespective of their registration with NSIC or any other Govt. organisation

(10) Tenderer may download the tender enquiry documents from the web site www.hllhites.com or www.lifecarehll.com or www.eprocure.gov.in/cppp or https://etender.lifecarehll.com/irj/portal.

(11) The submission of tender online can only be done thru'https://etender.lifecarehll.com/irj/portal.

(12) All prospective tenderers may attend the Pre Tender meeting. The venue, date and time indicated above.

(13) Tenderers shall ensure that their bids, complete in all respects, are submitted online through HLL e-portal (as described above) ONLY. No DEVIATION is acceptable.

CEO
HLL Infra Tech Services Limited

SECTION - II
GENERAL INSTRUCTIONS TO TENDERERS (GIT)
CONTENTS

A. PREAMBLE

1. Definitions and Abbreviations

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

1.2. **Definitions:**

(i) **"Purchaser"** means Ministry of Health & Family Welfare Govt. of India.

(ii) **"e-Tender"** means Bids / Quotation / Tender received from a Firm / Tenderer / Bidder online.

(iii) **"Tenderer"** means Bidder/the Individual or Firm submitting Bids/Quotation/e-Tenders.

(iv) **"Supplier"** means the individual or the firm supplying the goods and services as incorporated in the contract.

(v) **"Goods"** means the articles, material, commodities, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, medical equipment, industrial plant etc. which the supplier is required to supply to the purchaser under the contract.

(vi) "Services" means services allied and incidental to the supply of goods, such as transportation, installation, commissioning, provision of technical assistance, training, after sales service, maintenance service and other such obligations of the supplier covered under the contract.

(vii) "Earnest Money Deposit" (EMD) means Bid Security/ monetary or financial guarantee to be furnished by a tenderer along with its tender.

(viii) "Contract" means the written agreement entered into between the purchaser and/or consignee and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.

(ix) "Performance Security" means monetary or financial guarantee to be furnished by the successful tenderer for due performance of the contract placed on it. Performance Security is also known as Security Deposit.

(x) "Consignee" means the Hospital/Institute/Medical College/ person to whom the goods are required to be delivered as specified in the Contract. If the goods are required to be delivered to a person as an interim consignee for the purpose of despatch to another person as provided in the Contract then that "another" person is the consignee, also known as ultimate consignee.

(xi) "Specification" means the document/standard that prescribes the requirement with which goods or service has to conform.

(xii) "Inspection" means activities such as measuring, examining, testing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement to determine conformity.

(xiii) "Day" means calendar day.

1.3 Abbreviations:

(i) "TE Document" means Tender Enquiry Document

(ii) "NIT" means Notice Inviting Tenders.

(iii) "GIT" means General Instructions to Tenderers

(iv) "SIT" means Special Instructions to Tenderers

(v) "GCC" means General Conditions of Contract

(vi) "SCC" means Special Conditions of Contract

(vii) "DGS&D" means Directorate General of Supplies and Disposals

(viii) "NSIC" means National Small Industries Corporation

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

2. Introduction

2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section – VI – "List of Requirements", which also indicates, *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 bidders in preparation and submission of bids. It also includes the mode and procedure to be adopted by the purchaser for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract.

2.3 The tenderers shall also read the Special Instructions to Tenderers (SIT) related to this purchase, as contained in Section III of these documents and follow the same accordingly. Whenever there is a conflict between the GIT and the SIT, the provisions contained in the SIT shall prevail over those in the GIT.

2.4 Before formulating the tender and submitting the same to the purchaser, the tenderer should read and examine all the terms, conditions, instructions, etc. contained in the TE documents. Failure to provide and/or comply with the required information, instructions etc. incorporated in these TE documents may result in rejection of its tender.

3. Availability of Funds

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

4. Language of Tender

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

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

5. Eligible Tenderers

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

6. Eligible Goods and Services

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

7. Tendering Expense

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

B. e-TENDER ENQUIRY DOCUMENTS

8. Content of Tender Enquiry Documents

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

Section II – General Instructions to Tenderers (GIT)
Section III – Special Instructions to Tenderers (SIT)
Section IV – General Conditions of Contract (GCC)
Section V – Special Conditions of Contract (SCC)
Section VI – List of Requirements
Section VII – Technical Specifications
Section VIII – Quality Control Requirements
Section IX – Qualification Criteria
Section X – Tender Form
Section XI – Price Schedules
Section XII – Questionnaire
Section XIII – Bank Guarantee Form for EMD
Section XIV – Manufacturer's Authorisation Form
Section XV – Bank Guarantee Form for Performance Security/CMC Security

Section XVI – Contract Forms A & B
Section XVII – Proforma of Consignee Receipt Certificate
Section XVIII – Proforma of Final Acceptance Certificate by the consignee
Section XIX – Consignee List

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

9. Amendments to TE documents

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

9.2 Such an amendment will be notified in writing by registered/speed post or by fax/telex/e-mail, to all prospective tenderers, who have received the TE documents and will be binding on them.

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

10. Clarification of TE documents

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

C. PREPARATION OF e-TENDERS

11. Documents comprising the e-Tender

11.1 The tender(s) shall only be submitted online as mentioned below:

(i) Technical Bid (Consisting of Techno-Commercial bids in excel format provided with the tender enquiry along with the supporting documents i.e. scanned copies of Tender Processing Fee, EMD, Eligibility Criteria & Technical Specifications viz. Product Specification Sheets/Brochures, OEM Certificate, etc.) has to be attached in the C-folder of e-tendering module. Bidders have to ensure that the documents uploaded in pdf format are legible.

(ii) Price Bid has to be submitted in the prescribed excel format provided with the tender enquiry.

Note:

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

(ii) The bidders have to follow the steps listed in *Bidding Manual – Attachment Mode* available in the *Bidder Help Documents* of e-tender portal login screen for uploading the Techno-Commercial Bid.

A) Details of Technical Tender (Un priced Tender)

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

i) Techno-Commercial Bid in excel format provided with the tender enquiry
ii) Earnest money Deposit (EMD) furnished in accordance with GIT clause 19.1 alternatively, documentary evidence as per GIT clause 19.2 for claiming exemption from payment of earnest money.
iii) Tender Form as per Section X (without indicating any prices).
iv) Documentary evidence, as necessary in terms of clauses 5 and 17 establishing that the tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.
v) Tenderer/Agent who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorization **strictly as per the prescribed format (Section - XIV).**
vi) Power of Attorney issued by Competent Authority in favour of the person **who is digitally signing/ uploading the tender(s).**
vii) Documents and relevant details to establish in accordance with GIT clause 18 that the goods and the allied services to be supplied by the tenderer conform to the requirement of the TE documents.
viii) Performance Statement as per section IX along with relevant copies of orders and end users' satisfaction certificate.
ix) Price Schedule(s) as per Section XI filled up with all the details including Make, Model etc. of the goods offered with prices blank (without indicating any prices).
x) Certificate of Incorporation.
xi) Self-Attested copies of VAT registration certificate and PAN Card.
xii) Non conviction /no pending conviction certification issued by Notary on judicial stamp paper for preceding three years.
xiii) Self-Attested copies of quality certificates i.e. US FDA /CE Certificate issued by competent authority, if applicable.
xiv) Documentary evidence stating the status of bidder.
xv) List of procurement agencies of repute to which the tendered product have been supplied during last 12 months.
xvi) Self-attested copies of annual report, audited balance sheet and profit & loss account for preceding three years from the date of tender opening.
xvii) Notarized affidavit that tenderer does not have any relation with the person authorized to evaluate technically or involve in finalizing the tender or will decide the use of tendered items.
xviii) A self-declaration on Rs. 10/-non-judicial Stamp Paper that the rates quoted in the tender are the lowest and not quoted less than this to any Government Institution (State/Central/ other Institute in India).
xix) **Copies of original product catalogues / data sheet must be enclosed of all quoted items**.

B) Price Bid:

Prices are to be quoted in the prescribed Price Bid format in excel provided along with the tender enquiry in the e-tender portal. The price should be quoted for the accounting unit indicated in the e-tender document.

Note:

(i) **The bidder has to be diligent while filling up the Techno-Commercial Bid and Price Bid provided in excel formats and must not tamper with the contents of the sheets.**

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

(iii) The bidders have to follow the steps listed in *Bidding Manual – Attachment Mode* available in the *Bidder Help Documents* of e-tender portal login screen for uploading the Price Bid.

11.2 A person signing (manually or digitally) the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrant that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages.

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

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

12. Tender currencies

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

12.2 Deleted

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.

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

13.3 Deleted.

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, Custom Duty and/or GST already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;

b) Any taxes and duties including Custom duty and/or GST, which will be payable on the goods in India if the contract is awarded;

c) Charges towards Packing & Forwarding, Inland Transportation, Insurance (local transportation and storage), Loading& Unloading etc. would be borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;

d) The price of Incidental Services, as mentioned in List of Requirements and Price Schedule;

e) The prices of Site Modification Work (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule.
f) The price of annual CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.4.2 Deleted

13.5 **Additional information and instruction on Duties and Taxes:**

13.5.1 If the Tenderer desires to ask for GST or any other taxes 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 taxes and no claim for the same will be entertained later.

13.5.2 Deleted

13.5.3 Deleted

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

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

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

13.5.5 Deleted

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

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

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

15. Firm Price

15.1 Unless otherwise specified in the SIT, prices quoted by the tenderer shall remain firm and fixed during the currency of the contract and not subject to variation on any account.Bidders are requested to quote BOQ wise unit price**(uniform unit prices must be quoted for same BOQ items across India)** and total price. If a firm quotes NIL Charges/ consideration, the bid shall be treated as unresponsive and will not be considered

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 Only one tenderer is permitted to quote for the same manufacturer irrespective of models

17 Documents Establishing Tenderer's Eligibility and Qualifications

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

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

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

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

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

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

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

19. Earnest Money Deposit (EMD)

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

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

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

i) Account Payee Demand Draft
ii) Fixed Deposit Receipt
iii) Banker's cheque and
iv) Bank Guarantee

19.4 The demand draft or banker's cheque or Fixed Deposit Receipt shall be drawn on any scheduled commercial bank in India or country of the tenderer, in favour of the "**HLL Infra Tech Services Limited**" payable at New Delhi. In case of bank guarantee, the same is to be provided from any scheduled commercial bank in India or country of the tenderer as per the format specified under Section XIII in these documents.

19.5 The earnest money shall be valid for a period of forty-five (45) days beyond the validity period of the tender. As validity period of Tender as per Clause 20 of GIT is 120 days, the EMD shall be valid for 165 days from Techno – Commercial Tender opening date.

19.6 Unsuccessful tenderers' earnest money will be returned to them without any interest, after expiry of the tender validity period, but not later than thirty days after conclusion of the resultant contract. Successful tenderer's earnest money will be returned without any interest, after receipt of performance security from that tenderer.

19.7 Earnest Money is required to protect the purchaser against the risk of the Tenderer's conduct, which would warrant the forfeiture of the EMD. Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The successful tenderer's earnest money will be forfeited without prejudice to other rights of Purchaser if it fails to furnish the required performance security within the specified period.

19.8 Deleted

20. Tender Validity

20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of 120 days (One hundred and twenty days) after the date of tender opening prescribed in the TE document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.

20.2 In exceptional cases, the tenderers may be requested by the purchaser to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by surface mail or by fax/ telex/cable followed by surface mail. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A tenderer, who may not agree to extend its tender validity after the expiry of the original validity period the EMD furnished by them shall not be forfeited.

20.3 In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for the purchaser, the tender validity shall automatically be extended up to the next working day.

21. Digital Signing of Tender

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

D. SUBMISSION OF TENDERS

22. Submission of Tenders

22.1 The tender shall be submitted online only.

(i) Pre-qualification and Technical compliance along with the Techno-Commercial Bid in excel format:

a) Scanned copies of tender processing fee and EMD

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

(ii) <u>PRICE BID (ONLY ONLINE)</u>

a) The tenderers must ensure that they submit the Price Bid in prescribed format uploaded along with the tender enquiry. It is the responsibility of the bidder to ensure that the contents of the format are not tampered.

b) The tenderers must ensure that they submit the on-line tenders not later than the closing time and date specified for submission of tenders.

c) Along with price bid recent purchase order copies for the same model and technical configuration issued by institute of National importance and/or reputed central/state government hospitals should be uploaded in pdf form for reasonability of the offered price.
d) The bidder should submit the copy of original proforma invoice from the foreign manufacturer along with the price bid.
e) The supplier shall justify the present quotes based on previous purchase orders for similar project executed either in India or Globally. If they quote any new model or upgraded version of earlier model, they may mention the same in their tender.

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

23. Late Tender:

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

24. Alteration and Withdrawal of Tender

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

E. TENDER OPENING

25. Opening of Tenders

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

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

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

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

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

F. SCRUTINY AND EVALUATION OF TENDERS

26. Basic Principle

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

27. Scrutiny of Tenders

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

27.2 The Purchaser's determination of a Tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence

27.3 Deleted

27.4 The tenders will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the TE document. The tenders, which do not meet the basic requirements, are liable to be treated as non-responsive and will be summarily ignored.

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

(i) Tender validity is shorter than the required period.
(ii) Required EMD or its exemption documents have not been provided.
(iii) Tenderer has not agreed to give the required performance security of required amount in an acceptable form in terms of GCC clause 5, read with modification, if any, in Section - V – "Special Conditions of Contract", for due performance of the contract.
(iv) Poor/ unsatisfactory past performance.
(v) Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
(vi) Tenderer is not eligible as per GIT Clauses 5.1 & 17.1.
(vii) Tenderer has not quoted for the entire quantity as specified in the List of Requirements/ BOQ for the quoted schedule.
(viii) Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry, like delivery terms, delivery schedule, terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.

28. Minor Informality/Irregularity/Non-Conformity

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

29 Discrepancies in Prices

29.1 If, in the price structure quoted by a tenderer, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless the purchaser feels that the tenderer has made a mistake in placing the decimal point in the unit price, in which case the total price as quoted shall prevail over the unit price and the unit price corrected accordingly.

29.2 If there is an error in a total price, which has been worked out through addition and/or subtraction of subtotals, the subtotals shall prevail and the total corrected; and

29.3 If there is a discrepancy between the amount expressed in words and figures, the amount in words shall prevail, subject to sub clause 29.1 and 29.2 above.

29.4 If, as per the judgement of the purchaser, there is any such arithmetical discrepancy in a tender, the same will be suitably conveyed to the tenderer by registered / speed post. If the tenderer does not agree to the observation of the purchaser, the tender is liable to be ignored.

30. Discrepancy between original and copies of Tender

Not applicable being e-Tender.

31. Qualification Criteria

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

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

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

The Notification is available in the below link:

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

The FAQs are available in the below link:

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

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

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

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

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

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

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

32. Conversion of tender currencies to Indian Rupees

32.1 Deleted,

33. Schedule-wise Evaluation

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

34. Comparison of Tenders

34.1 Unless mentioned otherwise in Section – III – Special Instructions to Tenderers and Section – VI – List of Requirements, the comparison of the responsive tenders shall be carried out on Delivery Duty Paid (DDP) consignee site basis. The quoted Site Modification Work prices and Comprehensive Annual Maintenance charges (CMC) prices will also be added for comparison/ranking purpose for evaluation. **"Net Present value (NPV) of the actual CMC price quoted for the required CMC period after the warranty period shall be considered for bid comparison and the NPV will be calculated after discounting the quoted CMC price by a discounting factor of 10% per annum."**

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

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

i) In the case of goods manufactured in India or goods of foreign origin already located in India, GST or any other taxes which will be contractually payable (to the tenderer), on the goods if a contract is awarded on the tenderer; and

ii)Deleted.

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

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

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

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

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

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

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

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

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

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

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

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

35.4 **Preference to Make in India**: As per the order issued by Department of Industrial Policy and Promotion (DIPP) vide No. P-45021/2/2017-BE-II dated 15.06.2017; the purchaser reserves the right to give preference to the local supplier. A copy of this order is enclosed at Appendix-A which will form a part of this TED for evaluation and ranking of bids. A local supplier (definition of 'local supplier' is given in clause 2 of the aforesaid order of DIPP) has to submit the following along with their tender(s) failing which their bid will be evaluated without considering such preference mentioned in the DIPP order dated 15.06.2017:

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.

36. Tenderer's capability to perform the contract

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

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

37. Contacting the Purchaser

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

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

G. AWARD OF CONTRACT

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

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

39. Award Criteria

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

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

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

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

41. Notification of Award

41.1 Before expiry of the tender validity period, the purchaser will notify the successful tenderer(s) in writing, by registered / speed post or by email (to be confirmed by registered / speed post) that its tender for goods & services, which have been selected by the purchaser, has been accepted, also

briefly indicating there in the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful tenderer must furnish to the purchaser the required performance security within thirty days from the date of dispatch of this notification, failing which the EMD will forfeited and the award will be cancelled. Relevant details about the performance security have been provided under GCC Clause 5 under Section IV.

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

42. Issue of Contract

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

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

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

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

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

44. Return of EMD

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 anything of value to influence the action of a public official in the procurement process or in contract execution; and

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

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

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

SECTION - III
SPECIAL INSTRUCTIONS TO TENDERERS
(SIT)

Sl. No.	GIT Clause No.	Topic	SIT Provision	Page No.
A	1 to 7	Preamble	No Change	
B	8 to 10	TE documents	No Change	
C	11 to 21	Preparation of Tenders	Change	
D	22 to24	Submission of Tenders	Change	
E	25	Tender Opening	No Change	
F	26 to 37	Scrutiny and Evaluation of Tenders	No Change	
G	38 to 45	Award of Contract	No Change	

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

SUBMISSION OF e-TENDERS

(i) All the necessary documents as prescribed in the NIT shall be prepared and scanned in different files (in PDF format as prescribed) and uploaded for on-line submission of Proposal.

(ii) Except Tender Processing Fee and EMD, all document(s)/ information(s) including the Financial Proposal (i.e. FORMAT FOR SUBMISSION OF FINANCIAL PROPOSAL) should be uploaded **online only** in the prescribed format given in the website. No other mode of submission shall be acceptable.

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

ii) The Individual file size of uploading is restricted up to 5 MB. Bidders may upload multiple files (Not exceeding 5 MB individually) & give relevant file name indicating the contents.

iii) The file name of price bid should match the file of the price bid format uploaded by the purchaser in the portal. This can be downloaded from the **Notes & Attachment** under **Details** of item when the event is in **Display Mode**.

SECTION - IV

GENERAL CONDITIONS OF CONTRACT (GCC)
TABLE OF CLAUSES

1. Application

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

2. Use of contract documents and information

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

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

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

3. Patent Rights

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

4. Country of Origin

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

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

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

5. Performance Security

5.1 Within twenty one (21) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten percent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum six months plus number of months under warranty from the date of Notification of Award

5.2 The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:

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

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

5.4 In the event of any amendment issued to the contract, the supplier shall, within fifteen (15) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.

5.5 The supplier shall enter into Annual Comprehensive Maintenance Contract as per the 'Contract Form – B' in Section XVI with respective consignees, 3 (three) months prior to the completion of Warranty Period. The CMC will commence from the date of expiry of the Warranty Period.

5.6 Subject to GCC sub – clause 5.3 above, the Purchaser/Consignee will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations & after receipt of Consignee wise bank guarantee for CMC security in favour of Head of the Hospital/ Institute/ Medical College of the consignee as per the format in Section XV.

6. Technical Specifications and Standards

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

7. Packing and Marking

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

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

7.3 Packing instructions:

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

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

8. Inspection, Testing and Quality Control

8.1 The purchaser and/or its nominated representative(s) will, without any extra cost to the purchaser, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The purchaser shall inform the supplier in advance, in writing, the purchaser's programme for such inspection and, also the identity of the officials to be deputed for this purpose. "The cost towards the

transportation, boarding and lodging will be borne by the purchaser and/or its nominated representative(s) for the first visit. In case the goods are rejected in the first instance and the supplier requests for re-inspection, and if same is accepted by purchaser/consignee/PSA/PA, all subsequent inspections shall be at the cost of the supplier. The expense will be to and fro Economy Airfare, Local Conveyance, Boarding and Lodging of the inspection team for the inspection period."

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

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

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

8.5 If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the purchaser under the terms & conditions of the contract.

8.6 The purchaser's/consignee's contractual right to inspect, test and, if necessary, reject the goods after the goods' arrival at the final destination shall have no bearing of the fact that the goods have previously been inspected and cleared by purchaser's inspector during pre-despatch inspection mentioned above.

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

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

8.8 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 Deleted.

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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) Deleted.

If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.

12. Spare parts

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

a) The spare parts as selected by the Purchaser/Consignee to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and

b) In case the production of the spare parts is discontinued:

i) Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and

ii) The supplier shall be responsible for undertaking the supply of any such spare part for the proper up keeping of equipment for a period of 10 years including the warranty and CMC periods.

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

13. Incidental services

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

a. Installation & commissioning, Supervision and Demonstration of the goods

b. Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.

c. Training of Consignee's Doctors, Staff, operators etc. for operating and maintaining the goods

d. Supplying required number of operation & maintenance manual for the goods

14. Distribution of dispatch documents for clearance/receipt of goods

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

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

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

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

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

B) Deleted.

15. Warranty:

- The supplier warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials (except when the design adopted and/or the material used are as per the Purchaser's/Consignee's specifications) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.
- The warranty shall remain valid for 24 months from the date of installation & commissioning with a regular updates of newer technology as and when evolved followed by a CMC for a period of 5 (Five) Years for all the equipment after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the purchaser/ consignee in terms of the contract, unless specified otherwise in the SCC.
- No conditional warranty will be acceptable.
- Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessoriesand Site Modification work and it will also cover the following wherever applicable:-
    - Any kind of motor.
    - Plastic & Glass Parts against any manufacturing defects.
    - All kind of sensors.

- All kind of coils, probes and transducers.
- Printers and imagers including laser and thermal printers with all parts.
- UPS including the replacement of batteries.
- Air-conditioners

a. Replacement and repair will be under taken for the defective goods.
- All kinds of painting, civil, HVAC and electrical work

b. Proper marking has to be made for all spares for identification like printing of installation and repair dates.

15.3 In case of any claim arising out of this warranty, the Purchaser/Consignee shall promptly notify the same in writing to the supplier. The period of the warranty will be as per G.C.C clause number 15.2 above irrespective of any other period mentioned elsewhere in the bidding documents.

15.4 Upon receipt of such notice, the supplier shall, within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/goods thereafter. The penalty clause for non-rectification will be applicable as per tender conditions

15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended till the completion of the original warranty period of the main equipment.

15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.

15.7 During Warranty period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the installation for preventive maintenance of the goods

15.8 The Purchaser/Consignee reserve the rights to enter into Annual Comprehensive Maintenance Contract between Consignee and the Supplier for the period as mentioned in Section VII, Technical Specifications after the completion of warranty period.

15.9 The supplier along with its Indian Agent and the CMC provider shall ensure continued supply of the spare parts for the machines and equipment 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 equipment /machines/goods etc. and shall always give the most competitive price for its machines/equipment supplied to the Purchaser/Consignee.

16. Assignment

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

17. Sub Contracts

17.1 The Supplier shall notify the Purchaser in writing of all sub contracts awarded under the contract if not already specified in its tender. Such notification, in its original tender or later, shall not relieve the Supplier from any of its liability or obligation under the terms and conditions of the contract.

17.2 Sub contract shall be only for bought out items and sub-assemblies.

17.3 Sub contracts shall also comply with the provisions of GCC Clause 4 ("Country of Origin").

18. Modification Of Contract

18.1 If necessary, the purchaser may, by a written order given to the supplier at any time during the currency of the contract, amend the contract by making alterations and modifications within the general scope of contract in any one or more of the following:

a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser,
b) Mode of packing,
c) Incidental services to be provided by the supplier
d) Mode of despatch,
e) Place of delivery, and
f) Any other area(s) of the contract, as felt necessary by the purchaser depending on the merits of the case.

18.2 In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the supplier to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly. If the supplier doesn't agree to the adjustment made by the Purchaser/Consignee, the supplier shall convey its views to the Purchaser/Consignee within twenty-one days from the date of the supplier's receipt of the Purchaser's/Consignee's amendment / modification of the contract.

19. Prices

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

20. Taxes and Duties

20.1 Supplier shall be entirely responsible for all taxes, duties, fees, levies etc. incurred until delivery of the contracted goods to the purchaser.

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

21. Terms and mode of payment

21.1 Payment Terms

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

TERMS AND MODE OF PAYMENT

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

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

a) On delivery:

Eighty percent (80%) payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents subject to recovery of LD, if any:

(i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount
(ii) Two copies of packing list identifying contents of each package
(iii) Inspection certificate issued by the nominated Inspection agency, if any
(iv) Insurance Certificate as per GCC Clause 11
(v) Certificate of origin for imported goods
(vi) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee

b) On Acceptance:

Balance Twenty percent (20%)payment would be made against 'Final Acceptance Certificate' as per Section XVIII of goods to be issued by the consignees subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise. FAC needs to be issued by the designated consignee after installation, commissioning, testing and one to two weeks of successful trail run of the equipment.

B) Payment For Imported Goods: Deleted

C) Payment of Site Modification Work, if any:

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

D) Payment for Annual Comprehensive Maintenance Contract Charges:

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

21.2 The supplier shall not claim any interest on payments under the contract.

21.3 Where there is a statutory requirement for tax deduction at source, such deduction towards income tax and other tax as applicable will be made from the bills payable to the Supplier at rates as notified from time to time.

21.4 Irrevocable & non – transferable LC shall be opened by the Purchaser. However, if the supplier requests specifically to open confirmed LC, the extra charges would be borne by the supplier. If LC is required to be extended and/or amended for reasons not attributable to the purchaser/consignee, the charges thereof shall be borne by the supplier.

21.5 The payment shall be made in the currency / currencies authorised in the contract.

21.6 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to respective consignees.

21.7 While claiming payment, the supplier is also to certify in the bill that the payment being claimed is strictly in terms of the contract and all the obligations on the part of the supplier for claiming that payment has been fulfilled as required under the contract.

21.8 While claiming reimbursement of duties, taxes etc. (like custom duty and/or GST or any other taxes) 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 the goods and perform the services under the contract within the time schedule specified by the Purchaser/Consignee in the List of Requirements and as incorporated in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed not later than the date (s) as specified in the contract.

22.2 Subject to the provision under GCC clause 26, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:

(i) imposition of liquidated damages,
(ii) forfeiture of its performance security and
(iii) termination of the contract for default.

22.3 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/Consignee in writing about the same and its likely duration and make a request to the Purchaser/Consignee for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/Consignee shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

22.4 When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, interalia contain the following conditions:

(a) The Purchaser/Consignee shall recover from the supplier, under the provisions of the clause 23 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.
(b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty and/or GST or on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.
(c) But nevertheless, the Purchaser/Consignee shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty and/or GST or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.

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

22.6.1 Passing of Property:

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

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

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

23. Liquidated damages

23.1 Subject to GCC clause 26, if the supplier fails to deliver or install /commission any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract including opening of office in India as per the undertaking given in the qualification criteria, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods, installation, commissioning and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract as per GCC 24.***Since the Liquidated damages are in virtue of non-performance of services, it will attract GST or any other applicable taxes which in turn shall be deducted from the bidder.***

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

24. Termination for default

24.1 The Purchaser/Consignee, without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee), may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser/Consignee pursuant to GCC sub-clauses 22.3 and 22.4.

24.2 In the event of the Purchaser/Consignee terminates the contract in whole or in part, pursuant to GCC sub-clause 24.1 above, the Purchaser/Consignee may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the Purchaser/Consignee for the extra expenditure, if any, incurred by the Purchaser/Consignee for arranging such procurement.

24.3 Unless otherwise instructed by the Purchaser/Consignee, the supplier shall continue to perform the contract to the extent not terminated.

25. Termination for insolvency

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

26. Force Majeure

26.1 Notwithstanding the provisions contained in GCC clauses 22, 23 and 24, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure.

26.2 For purposes of this clause, Force Majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and which is not foreseeable and not brought about at the instance of , the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees , lockouts excluding by its management, and freight embargoes.

26.3 If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

26.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.

26.5 In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

27. Termination for convenience

27.1 The Purchaser/Consignee reserves the right to terminate the contract, in whole or in part for its (Purchaser's/Consignee 's) convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Purchaser/Consignee. The notice shall also indicate interalia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.

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

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

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

28. Governing language

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

29. Notices

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

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

30. Resolution of disputes

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

30.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India or amendments thereof. In the case of a dispute or difference arising between the Purchaser/Consignee and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration appointed by CEO HITES . The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakhs (Rs. 1,00,000/-)

30.3 Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi, India.

30.4 Jurisdiction of the court will be from the place where the tender enquiry document has been issued, i.e., New Delhi, India

31. Applicable Law

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

32 Withholding and Lien in respect of sums claimed

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

33. General/ Miscellaneous Clauses

33.1 Nothing contained in this Contract shall be constructed as establishing or creating between the parties, i.e. the Supplier/its Indian Agent/CMC Provider on the one side and the Purchaser on the other side, a relationship of master and servant or principal and agent.

33.2 Any failure on the part of any Party to exercise right or power under this Contract shall not operate as waiver thereof.

33.3 The Supplier shall notify the Purchaser/Consignee /the Government of India of any material change would impact on performance of its obligations under this Contract.

33.4 Each member/constituent of the Supplier/its Indian Agent/CMC Provider, in case of consortium shall be **jointly and severally liable** to and responsible for all obligations towards the Purchaser/Consignee/Government for performance of contract/services including that of its Associates/Sub Contractors under the Contract.

33.5 The Supplier/its Indian Agent/CMC Provider shall at all times, indemnify and keep indemnified the Purchaser/Government of India against all claims/damages etc. for any infringement of any Intellectual Property Rights (IPR) while providing its services under CMC or the Contract.

33.6 The Supplier/its Agent/CMC Provider shall, at all times, indemnify and keep indemnified the Purchaser/Consignee/Government of India against any claims in respect of any damages or compensation payable in consequences of any accident or injury sustained or suffered by its employees or agents or by any other third party resulting from or by any action, omission or operation conducted by or on behalf of the supplier/its associate/affiliate etc.

33.7 All claims regarding indemnity shall survive the termination or expiry of the contract.

33.8 If any provisions of this tender enquiry or a contact formed on the basis of this tender enquiry are invalid or void under any of the existing provisions of Indian law, then such provisions will not affect other provisions of this tender enquiry/ contract.

SECTION – V

SPECIAL CONDITIONS OF CONTRACT (SCC)

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

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

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

SECTION - VI

LIST OF REQUIREMENTS

Part I

Sl. No.	Rfx. No.	Equipments	Qty. for Vidisha& Ratlam	Qty. for Chindwara, Dataia, Khandwa, Shahdol& Shivpuri	Department	Total Requirement for 07 colleges
1	3000002343	Mortuary cooler with arrangement to keep 1 bodies	1	1	Anatomy	**7**
2	3000002344	Embalming machines for cadavers	1	1	Anatomy	**7**
3	3000002345	Meat cutting machine for thin body sections	1	1	Anatomy	**7**
4	3000002346	Microscopes Monocular	75	50	Anatomy	**680**
			40	40	Physiology	
5	3000002347	Dissection microscope	4	3	Anatomy	**203**
			40	20	Community Medicine	
6	3000002348	Rotary Microtome	1	1	Anatomy	**14**
			1	1	Pathology	
7	3000002349	Sledge & Freezing Microtomes	1	1	Anatomy	**7**
8	3000002350	Binocular Microscopes	27	17	Physiology	**1294**
			5	5	Biochemistry	
			3	2	Community Medicine	
			62	62	Pathology	
			20	15	Forensic Medicine	
			90	75	Microbiology	
9	3000002351	Binocular Microscopes with Projection Screen	1	1	Physiology	**14**
			1	1	Pathology	
10	3000002352	Polygraphs	1	1	Physiology	**7**
11	3000002353	Gas analyser automatic for CO2, O2, N2	1	1	Physiology	**7**
12	3000002354	Multi channel Physiograph, 3 channels	3	2	Physiology	**16**
13	3000002355	Gas analysis apparatus, Halden's student type	1	1	Physiology	**7**
14	3000002356	Student Physiograph, (single channel)	8	6	Physiology	**46**
15	3000002357	Digital Physiograph	2	1	Physiology	**9**
16	3000002358	ECG Machine- Single Channel	3	2	Physiology	**16**
17	3000002359	Complete Chromatographic Unit for paper & TLC	2	2	Biochemistry	14
18	3000002360	Complete Electrophoresis apparatus with power supply (Paper, PAGE, agarose)	1	1	Biochemistry	14
			1	1	Pathology	
19	3000002361	Densitometer with computer	1	1	Biochemistry	7
20	3000002362	Balance Semi Micro	1	1	Biochemistry	58
			2	1	Microbiology	
			2	2	Community Medicine	
			4	4	Pathology	
21	3000002363	Balance Micro	1	1	Biochemistry	7
22	3000002364	Spectrophotometer	1	1	Biochemistry	14
			1	1	Forensic Medicine	

Sl. No.	Rfx. No.	Equipments	Qty. for Vidisha& Ratlam	Qty. for Chindwara, Dataia, Khandwa, Shahdol& Shivpuri	Department	Total Requirement for 07 colleges
23	3000002365	ELISA Reader(Demonstration)	1	1	Biochemistry	7
24	3000002366	Incubator, electric	1	1	Community Medicine	37
			2	2	Pathology	
			3	2	Microbiology	
25	3000002367	Ice Lined refrigerator (I.L.R.)	1	1	Community Medicine	7
26	3000002368	Autoclave	1	1	Community Medicine	37
			3	2	Microbiology	
			2	2	Pathology	
27	3000002369	ECG- 6 Channel	1	1	Community Medicine	7
28	3000002370	Biosafety Cabinet Type - 2A	3	3	Microbiology	21
29	3000002371	B.O.D. Incubator	1	1	Microbiology	7
30	3000002372	Centrifuge,electrial high power	4	3	Microbiology	23
31	3000002373	CO2 Incubator	2	2	Microbiology	14
32	3000002374	Deep freezer (-20 degree Celsius)	1	1	Microbiology	14
			1	1	Forensic Medicine	
33	3000002375	Deep freezer (-80 degree Celsius)	1	1	Microbiology	7
34	3000002376	Elisa Reader,washer&dispensor	2	1	Microbiology	9
35	3000002377	Hot Air Oven	2	2	Microbiology	14
36	3000002378	Laminar flow table	1	1	Microbiology	7
37	3000002379	Microscope Trinocular (Teacher)	5	5	Microbiology	42
			1	1	Pathology	
38	3000002380	Serum inspissators	1	1	Microbiology	7
39	3000002381	Automated Blood Culture System	1	1	Microbiology	7
40	3000002382	Weighing machine for cadavers (300 Kg.)	1	1	Pathology	14
			1	1	Forensic Medicine	
41	3000002383	Semi- Automated Rotary Microtome	2	2	Pathology	21
			1	1	Forensic Medicine	
42	3000002383	Cryostat(Freezing Microtome)	1	1	Pathology	7
43	3000002385	Automatic tissue processor	2	2	Pathology	14
			1	1	Forensic Medicine	
44	3000002386	Autopsy table	2	2	Pathology	44
			5	4	Forensic Medicine	
45	3000002387	Penta Head Microscope	1	1	Pathology	7
46	3000002388	Deca Head Microscope	1	1	Pathology	7
47	3000002389	Grossing Work Station	1	1	Pathology	7
48	3000002390	Five part Fully Automated Cell Counter	2	2	Pathology	14
49	3000002391	Three Part Fully Automated Cell Counter	3	3	Pathology	21
50	3000002392	Automated coagulation analyzer	2	1	Pathology	9
51	3000002393	Fluorescent Microscope	1	1	Pathology	7
52	3000002394	Automated Hematology Slide Stainerswith workstation	1	1	Pathology	7
53	3000002395	Infusion pumps(Insulin or Drug or	15	10	Pharmacolog	80

Sl. No.	Rfx. No.	Equipments	Qty. for Vidisha& Ratlam	Qty. for Chindwara, Dataia, Khandwa, Shahdol& Shivpuri	Department	Total Requirement for 07 colleges
		Bed side)			y	
54	3000002396	Manikins for demonstration of intravenous injection, enema, local, intramuscular injections, intracardiac injection and other routes of drug administration	15 sets	10 sets	Pharmacology	80
55	3000002397	Computer Assisted Learning software	1	1	Pharmacology	7
56	3000002398	Binocular Research Type With Camera Attachment	1	1	Forensic Medicine	7
57	3000002399	Cold Storage For Dead Bodies	3	2	Forensic Medicine	16
58	3000002400	OT light Shadowless adjustable	1	1	Forensic Medicine	7

Part II: Required Delivery Schedule:

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

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

Installation and commissioning shall be done within 30 days of receipt of the stores/ goods at site or within 30 days of handing over the site for installation, whichever is later.

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

Note:

i) The delivery schedule for different sites may be staggered based on the site readiness; the supplier should get confirmation of site readiness from the purchaser before delivery to each site.

Part III: Scope of Incidental Services:

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

Part IV:

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

Part V:

Warranty period as per details in general technical specification and as specified in Part I above. Warranty period will be 24 months from the date of installation, commissioning and acceptance or 30 months from the date of delivery, whichever is earlier.

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

Part VI:

Required Terms of Delivery and Destination:

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

At Consignee Site(s)

Destination/Consignee details:
A list of Consignee is given in Section XXI.

Section – VII
Technical Specifications

SCHEDULE NO: 1

	Mortuary cooler / refrigerator with arrangement to keep 1 bodies
	Specification for cold storage chambers for dead bodies
1	Corrosion free interior and exterior.
2	Audio visual alarm for high and low temperature.
3	Designed for long storage of cadaverous.
4	PUF insulation on all sides.
5	Special design ensuring best hygiene with washing & draining facility.
6	Reliable
7	Tray or Trolley should be available in the mortuary chamber so that the cadaver can be pushed inside or pulled outside the chamber smoothly.
8	Energy efficient and sturdy construction.
9	Light weight.
10	Digital temperature indication.
11	Low maintenance.
12	Microprocessor based / PLC temperature control.
13	Outer body of the mortuary chamber is constructed out of thick S.S sheets. The inner chamber made of heavy gauge stainless steel sheet of SS-304 grade. The 100mm gap between the walls filled high grade poly urethane insulation, which ensures maximum thermal efficiency.
14	The doors connected by very sturdy chrome plate hinges and fitted with hard chrome plated lubricated latches for opening of the door.
15	The doors made of galvanized steel sheets, lined with stainless steel for extra protection and long life.
16	All the doors fitted with high quality neoprene rubber gaskets for airtight fittings with very sturdy casters.
17	CFC free compressors, conforming to latest international standards and guidelines.
18	Vapor proof lamp inside.
19	Temperature range -2 to 4 deg C with temp failure alarms.
20	Suitable Voltage automatic stabilizer O/P 230 +/-10% I/P 150 – 280Volts.
21	To be installed at each site as per the site conditions.

SCHEDULE NO: 2

	Embalming Machine
	Technical Specifications for Embalming Machine:
1	Fluid delivery rate should be 10 ltrs/hr.
2	Inner tank to store embalming fluid with capacity 15- 20 ltrs. Should be of stainless steel.
3	Pump: pump should be of electromagnetic/ diaphragm dosing pump with capacity 0-5 ltrs Per hour and pressure 3 kg/cm square.
4	The equipment should be mounted on castors for easy movement and the hand grip should be provided for lifting.
5	I.V. stand fixed for mounting cannula tubing and mains cable.
6	Indicator for mains on & in use should be present.
7	The outer body should be of complete stainless steel.
8	Power supply: 220 V AC with trip facility.

SCHEDULE NO: 3

	Meat cutting machine for thin body sections
	Meat cutting Machine (Bakon's slicer) of standard type
1	Table made of thick SS sheet with special heavy axles for easy and firm movement.
2	Machine should be supplied complete with one blade, starter, cord and plug
3	Machine should work on 220 V, single phase, 50 Hz AC Supply
4	Machine should be fitted with moving table and extension table mounted on four ball bearing rollers.
5	Additional accessories 1) Blades – 02 nos 2) Belt – 10 no.

SCHEDULE NO: 4

	Monocular Microscopes - student type,
	Monocular head 45/30 degree inclined, quadruple ball bearing nose piece. Mechanical stage-low drive Co-axial control, having X & Y movement of 55mm and 75mm. C0- axial coarse and fine focusing with focusing lock. Abbe condenser NA 1.2.5, with iris diaphragm movable on Rack & Pinon. Objectuve (Ach) 4X, 10X, 40X SL and 100X oil immersions (S.L.) accessories-day refector, dust cover. should be supplied reflective mirror.

SCHEDULE NO: 5

	DISSECTING MICROSCOPE
A	**Eye piece:**
1	Straight binocular type wide field (10 x)
2	Optic carriers with five steps magnification
3	Fine focusing- manual
4	Objective 250mm f & 400 mm f
5	Cold light co-axial illumination additional 10 spare bulbs
6	Solid metallic body with sturdy stand riding on heavy castor wheels with locking breaks.
7	Halogen illuminations 150W with power supply.
8	Should have 3 spare lamps with each unit.
B	**Power Supply**
	Power input to be 220-240VAC, 50Hz
	CE or BIS approved product or equivalent.

SCHEDULE NO: 6

	Rotary Microtome with knifes/ Blades- Manual
	Rotary microtome complete with standard accessories e.g. disposable blade holder, specimen clamp, tool kit operating manual
1	High precision machine suitable for both delicate as well as hard tissue sectioning
2	Section thickness settings 1-60 µm with settings in 1, 2, 5 increment at different levels
3	Specimen advance 28 mm or more
4	Vertical stroke 60 mm or more
5	Provision of step trimming
6	Adjustable specimen clamp at least 50 x 45 mm with orientation in X,Y axis
7	Single disposable blade holder for accommodating both high and low profile blades
8	Lateral coarse feed
9	Integrate removable section waste tray
10	Spare low and high profile blades in dispenser pack of 50 blades: 6 packets each
11	Microtome knifes – 02 nos.
12	Specimen holders – Plastic (as many as required)
13	The equipment should conform to ISO 9001 & CE/BIS.

SCHEDULE NO: 7

	SLEDGE AND FREEZING MICROTOME
1	**Description of Function**
1.1	A sledge microtome where the sample is placed into a fixed holder (shuttle), which then moves backwards and forwards across a knife. Freezing microtome is used for cutting thin to semi-thin sections of fresh frozen tissue
1	**Radial Cutting facility**
a)	Knife: 3 1/4" (8cm)
b)	Section Thickness: 5 microns and up Calibrated 5-40 microns
2	**Sledge Cutting**
a)	Knife: 6 2/3" (17cm)
b)	Section Thickness: 0.4 microns and up Calibrated -12 microns
	Freezer for Microtome
a)	Temperature Range: -40°C to +100°C
b)	Resolution: 1/2 amp (curr. readout) 0.1°C, digital display

c)	Heat Removal: ½ liter/min. Tap water or circulating pump & tank unit
d)	Accessories: Thermocouple microprobe
	Automatic protection against overheating in case of water supply failure
	Controller can be used as an independent digital thermometer and needle microprobe should be provided for this purpose.
2	**Power Supply**
	Power input to be 220-240VAC, 50Hz
3	**Standards, Safety and Training**
	CE/ BIS approved product.

SCHEDULE NO: 8

	BINOCULAR MICROSCOPE (FOR STUDENTS)
	Student upright Binocular Microscopes (with inbuilt light source & imported achromatic optics).
1	Binocular microscope with universal infinity corrected optical system.
2	**LED light source illumination with at least 25,000hrs life time.**
3	Rigid frame with ergonomics design.
4	**Binocular observation tube with inclination of 30 degrees.**
5	Built in torque adjustable focusing knob.
6	Mechanical stage with rigid hand coaxial control.
7	Abbe condenser, Iris diaphragm.
8	**Freely revolving (Inwards & outwards) Quadruple nose piece (for objectives).**
9	Plan achromat objectives 4X, 10X, 40X, 100X (Oil).
10	40X, 100X objective should be spring loaded.
11	**Eye piece 10X with F.N. 20mm.**
12	Antifungal treatment should be applied to the observation tube, eyepiece and objective.
13	Accessories, dust cover and power cord.
14	**Eyepiece fitted with pointer – 01 nos.**
15	Power requirement 220 V/50 Hz
16	Should be CE certified/FDA /BIS approved product.
17	Observation tube - should be Seidentopf type.
18	Should be supply with projection screen minimum size of 4x3 Feet.

SCHEDULE NO: 9

	BINOCULAR MICROSCOPE projection screen for Teaching
	Student upright Binocular Microscopes (with inbuilt light source & imported achromatic optics).
1	Binocular microscope with universal infinity corrected optical system.
2	**LED light source illumination with at least 25,000hrs life time.**
3	Rigid frame with ergonomics design.
4	**Binocular observation tube with inclination of 30 degrees.**
5	Built in torque adjustable focusing knob.
6	Mechanical stage with rigid hand coaxial control.
7	Abbe condenser, Iris diaphragm.
8	**Freely revolving (Inwards & outwards) Quadruple nose piece (for objectives).**
9	Plan achromat objectives 4X, 10X, 40X, 100X (Oil).
10	40X, 100X objective should be spring loaded.
11	**Eye piece 10X with F.N. 20mm.**
12	Antifungal treatment should be applied to the observation tube, eyepiece and objective.
13	Accessories, dust cover and power cord.
14	**Eyepiece fitted with pointer – 01 nos.**
15	Power requirement 220 V/50 Hz
16	Should be CE certified/FDA /BIS approved product.
17	Observation tube - should be Seidentopf type.
18	Should be supply with projection screen minimum size of 4x3 Feet.

SCHEDULE NO: 10

	Polygraph
	Should be able to Record and analyze
1	GSR, temperature, pulse, respiration, airflow, blood pressure, Heart Rate Variability [HRV]
2	ECG recording with all leads, Phono cardiogram to record heart sounds and correlate the sound with the electrical events of the cardiac cycle
3	Blood Pressure
4	EMG data to investigate the properties of skeletal muscle, Record and display raw and integrated EMG signals, Measure strength and repeat trials for motor unit recruitment, summation and fatigue
5	Dynamometer to study handgrip strength profile
6	EEG under variety of conditions to explore relaxation and brain rhythms, Software to filter and display each rhythm separately - Delta, Theta, Alpha & Beta; EOG (ocular signal) to study eye movements saccades, tracking, angular displacement or ocular fixations.
1	**Specifications**
	Number of channels: 8
	Transducers & couplers: Pressure, Plethysmography, strain gauge. Isotonic & Isometric Force. Respiration, Pulse. Surface Temperature probe. Biopotential. Internal Temperature probe. GSR Electrode; and any other needed for the measurement of the above parameters.
	Computer: Intel® Core™ i5-760 processor (2.80GHz, 1333MHz FSB, 8MB Cache) Genuine Windows® 7 professional , 64bit (English); 21.5 " Full HD Widescreen Flat Panel Monitor ; 6GB DDR3 SDRAM ,500GB SATA Hard Drive ; Single Drive: Blu-ray Disc Combo (DVD+/-RW + BD-ROM) . Facility for internet connectivity, with facility of up gradation; color laser printer
	UPS with 20 minutes back up for whole system required.
	System should be backed by software capable of rapid analysis of the acquired data and presenting it in various formats while reporting
2	Software: File compatibility with other applications like MS word, MS excel; Data storage on CD, Data analysis
3	Standard accessories, a set of essential spares for trouble free operation for minimum 5 Years
4	The equipment should be under WARRANTY for a period of minimum THREE YEARS after successful commissioning.

SCHEDULE NO: 11

Gas Analyzer – automatic for CO2, O2, N2
Record & measure VO2 oxygen consumption, VCO2 carbon dioxide production, VE Expired minute volume, RER respiratory exchange ratio, ECG, HRV, Body temperature and Pressure saturate BTPS, Standard temperature and pressure Dry STPD, (VE/VO2), (VE/VCO2) etc. and should generate a number of graphs like Metabolic log window, VE (BTPS) vs. VO2, VE (BTPS) vs. VCO2, VCO2 vs. VO2, RER vs. time, VO2 vs. time, VCO2 vs. time, VE(BTPS) vs. time.
□ High speed USB based recording unit along with Gas analyzers, spirometer amplifier, flow-head and other transducers and accessories.
□ Have oxygen sensor with minimum range of 5-100% oxygen and resolution of at least 0.02%, and the carbon dioxide sensor with minimum range 0-8% of carbon dioxide and resolution of at least0.1%and variable flow range of 0-185 ml/min for best performance and results.
□ To perform online and offline analysis up to 32 channels.
□ Supplied with breathing accessories and Douglas bags.
□ To plot real time flow & volume loops. ECG switch bow (lead I, II, III aVL, aVF, aVR and V1 to V6) for real time cardiac axis and vector analysis.
□ IEC 60601-1 & ISO 9001:2008certified & making them safe for use with human subjects.
□ An obligatory demonstration of the equipment and necessary training.
□ To be supplied with Bicycle ergometer, branded computer & UPS.

SCHEDULE NO: 12

	Physiograph, 3 channels, complete with accessories
	Physiograph – Three Channel
1	Console with time & Event channel and stimulator for human experiments
2	Couplers
3	Strain gauge - 1 No.
4	Isotonic - 1 No.

5	Pulse respiration - 1 No.
6	Temperature - 1 No.
7	EKG (Clinical) with electrode 1 No. ,5 pin junction and belly
8	Biopotential (with electrodes, 1 No., 3 pin junction box, pastes and electrodes for action potential)
9	Transducers:
10	Pressure – 1 No
11	Volume – 1 No
12	Muscle activity /Force – 1 No
13	Respiration belt – 1 No
14	Isotonic Fine movement – 1 No
15	Pulse – 1 No
16	Respiration (Thermistor type) – 1 No
17	Temperature – 1 No
18	Accessories: Following accessories are supplied along with each console:
19	Chart paper Z folds 250 folds 10 nos
20	Fuses 10 nos
21	Instruction manual
22	Earthing codes 01. Nos
23	Extra pen with Cradles 01 nos
24	Ink ½ Ltr
25	Machine cover 01 nos
26	The product should be CE or FDA or BIS Certified

SCHEDULE NO: 13

GAS ANALYSIS APPARATUS, HALDANE'S STUDENTS TYPE
• The computerized metabolic system provides all vital parameters such as ECG, heart rate, pulmonary volumes and capacities, respiratory gases and metabolic measurements. • The system should calculate VE Expired minute volume, VO2 oxygen consumption, VCO2 carbon dioxide production, RER respiratory exchange ratio, ECG, HRV, Body temperature and pressure saturate BTPS, Standard Temperature and pressure Dry STPD, (VE/VO2), (VE/VCO2) etc. and should generates a number of graphs like Metabolic Log Window, VE (BTPS) vs. VO2, VE (BTPS) vs. VCO2, VCO2 vs. VO2, RER vs. time, VCO2 vs. time, VE (BTPS) vs. time. • It should plot real time flow & volume loops. ECG switchbox (lead I, II, III aVL, aVF, aVR and V1 to V6) for real time cardiac axis & vector analysis etc. • The oxygen sensor should have minimum range of 5-100% oxygen and resolution of at least 0.02% & the carbon dioxide sensor with minimum range 0-8% of carbon dioxide and resolution of at least 0.1% and variable flow range of 0-185 ml/min for best performance and results. The bio-potentials signals conditioners, supplied must be approved to CE & ISO.

SCHEDULE NO: 14

Physiograph, single channel, with accessories
Should be able to record simple muscle and nerve responses to nerve stimulations
It should be made of light metal for compactness and lightness.
Student Physiograph should be single channel console with 9 speed (.5,1,2,5,10,20,25,30 & 50 mm/sec) chart drive, time & event markers and appropriate transducers and stimulator
Couplers: Strain Gauge and isotonic
Transducers: Pressure, volume, muscle activity/ force, Isotonic fine movement
Accessories, spares and consumables
Earth Lead
Ink bottle
EP to EP lead
Perpex pen
Steel wire

Motor Belt
Chart paper Z- fold
Fuse
Cover
Power Supply
Power input to be 220-240VAC, 50Hz

SCHEDULE NO: 15

Digital Physiograph

Should be able to record Bio-Electrical Potential e.g. EEG, ECG, ENG, EMG, Pulse, Respiration, Blood Pressure etc.
It should be made of light metal for compactness and lightness.
Student physiograph should be Eight channel console with 9 speed (0.5,1,2,5,10,20,25,30 & 50 mm/sec) chart drive, time & event chart, transducers and stimulator
Couplers: Strain Gauge, isotonic, Pulse Respiration, temperature, EKG and Bio- Potential
Transducers: Pressure, volume, muscle activity/ force respiration belt, Isotonic fine movement, pulse, respiration & temperature Data Acquisition System to convert data from physiograph to a computer with HRY and independent
ECG Recording system with software and computer should be supplied with system.
System Configuration Accessories, spares and consumables
Earth Lead
EKG electrode
EEG & EMG paste(Surface electrods)
III Pin junction box, action potential electrode
V-pin junction box
Chart paper Z- fold ,Fuse
Power Supply
Power input to be 220-240VAC, 50Hz
Suitable UPS with One Hr backup
Documentation
Manufacturer should have ISO certification for quality standards
Should have FDA/CE/BIS certification

SCHEDULE NO: 16

ECG Machine single chanel

Description of Function
1.1 ECG Machine is primary equipment to record ECG Signal in various configurations
2 Operational Requirements
2.1 The ECG Machine should be able to acquire all 12 Leads ECG signals
2.2 Should print all the 12 leads in a single channel mode
3 Technical Specifications 3.1 Should acquire 12 lead ECG for both adult and pediatricpatients .
3.2 Should have Artifact, AC, and low and high pass frequency filters.
3.3 Should have an integrated-high resolution, thermal array printer for print of ECGs
3.4 Should have battery capacity of at least 30 ECGs or 30 minutes of continuous rhythm recording on single charge
4 System Configuration Accessories, spares and consumables
4.1 System as specified-
4.2 Patient cable -02
4.3 Chest Electrodes Adult-(set of six) -2 sets.
4.4 Chest Electrodes Pediatric-(set of six) -2 sets
4.5 Limb Electrodes (set of 4)- 02 sets for Adult and 02 sets for Pediatrics.
4.6 Thermal print paper: 10 Rolls/Z Fold
5 STANDARDS
5.1 The product should be CE or FDA or BIS Certified

SCHEDULE NO: 17

Complete chromatographic unit for Paper & TLC:
Specifications:
Chromatography tank with cover for plates of different sizes, Size 20x20 cm
Moveable applicator with inbuilt thickness arrangement between 0 to 2mm (minimum div. 0.25mm) in further consists of the following components.
1. Spreader (applicator) made of electroplated brass.
2. Perspex base of 114x23 cm to support glass plates.
3. Plate rack alluminium, anodised for ten 20x20cm or 20x10cm plates.
4. Developing tank with lid.
5. Spotting template made of perspex.
6. TLC plates set of five 20x20cm. and two 20x5cm, or set of ten 20x10cm and two 20x5cm
7. Glass sprayer with rubber bellow, cap. 100m1
8. Micro-pipette
9. Subscriber for marking lines made of stainless steel.
Accessories for T.L.C. Apparatus :-
Glass sprayer with rubber bellow.
Perspex base of 114x23 cm to support glass plates.

SCHEDULE NO: 18

	Complete Electrophoresis apparatus with power supply (Paper, PAGE, agarose)
	Description of Function
1	Of the various types of electrophoresis, Other types, protein (or vertical) electrophoresis, utilizes apparatus for analyzing DNA, RNA and Proteins.
	Operational Requirements
2	Complete system for rapid electrophoresis of proteins & nucleic acids
	Technical Specifications:
	Horizontal Gel Apparatus
3	Gel tanks sizes 8x11 inches (midi gel apparatus) and 3x 6 inches (mini gel apparatus) with platinum electrodes and dams.
4	Complete Gel casting system for casting multiple gels
5	Power connector integral with safety lid
6	Supply at least 4 sets of gel casting trays
7	Supply at least 6 Nos. of 1.0 mm thick comb for 8-20 samples
8	Compatible DC Power supply
9	Compatible microprocessor based power supply to run at least 2 units at constant voltage or current with automatic cross over
10	Output range programmable,10-500V, 4-500 mA in 1 mA step, 100 W maximum
11	Single-unit increments in settings and read-outs for precision and reproducibility
12	Easy to read digital display
13	Ensure safety features for overload, sudden load change, short circuit protection etc. and personal and environmental protection
14	Automatic recovery after power failure
	Environmental factors
15	Shall meet IEC-60601-1-2:2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.
16	The unit shall be capable of being stored continuously in ambient temperature of 0 -50 deg C and relative humidity of 15-90%
17	The unit shall be capable of operating in ambient temperature of 20-30 deg C and relative humidity of 80%.
	Power Supply
18	Power input to be 220-240VAC, 50Hz fitted with Indian plug
19	Suitable Computer, printer & UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.

SCHEDULE NO: 19

Densitometer with Computer (Automatic):
Light source: halogen lamp 6v-12v, lwatt - 40 watt. Operating wavelength: at least 530nm, 570nm and white light Photocell type: silicon photocell or any other equivalent Photometric linearity: 0.00 to 2.5 o.d. or better
Programmable scanning length: 120mm or more
Programmable scanning width: 90mm or more should accept all electrophoresis media (including agarose) on plastic or Glass plate.
Editing features: automatic fraction identification, insertion/ deletion, renaming of peaks, addition of fractions, baseline correction.
Monitor: display of graphs and other data.
Printer: built in graphic thermal printer or better.
Software: user programmable tests for different applications including serum/urine/ protein electrophoresis.
Reports: graphs, percentage, g/dl. A/g ratio, patient data.
Memory: storage of result including graphs.
Data management: direct comparison of pathological cases statistical calculation. Serial port: bi-directional
Certifications:
Product Certification: CE Class II A or US PDA certified;WHO-GMP;ISTM;CE;SGS UKAS;ISO 13845
Electrical Safety: Equipment meets electrical safety specifications such as that of IEC (Class I) ;shall meet IEC-60601-1-2 :2001(Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility

SCHEDULE NO: 20

	BALANCE ELECTRONIC 1.0 mg-Accuracy (BALANCE SEMI MICRO)
1	**Description of Function**
1.1	Electronic Balance is required for precision weighing of Lab samples.
2	**Operational Requirements**
2.1	Microprocessor based single pan Analytical Balance with High accuracy & precision is required.
2.2	Reading of the weight by digital display.
2.3	Electronic top loading balances with transparent case
2.4	The balance should have functions of piece counting, percent weighing, and formulation, dynamic weighing with automatic and manual start and' provision for data interface
3	**Technical Specifications**
3.1	Weigh accurately up to 3rd decimal place of one gm.
3.2	**Fully automatic Time and/or temperature controlled internal calibration and balance should be capable to adjust itself.**
3.3	Auto zero Setting
3.5	Weighing capacity 210 gm
3.6	Readability: 0.001g
3.7	Repeatability: 0.09mg
3.8	Settling time 1.5 second
3.9	Suitable internal and external adjustment weights.
3.10	Pace-setting interfacing flexibility - including Ethernet, Bluetooth (wireless connection) and PS/2 -for efficient data capture and easy network integration.
3.11	Balance should have the following features:-
	· **Touch Screen/LCD Display**
	Stainless Steel Large Square/round weighing Pan
	· IR Sensors for hands-free operation for personnel security and automatic draft shieldopening and closing.
	· Warns if the balance is not correctly levelled to ensure the accuracy of results.
	· Automatic and detachable draft shield
	· Suitable tool box to be provided
	· Integrated automatic safety functions for external routine operations.
	· Alphanumeric data entry of 4 ID's

4	**System Configuration Accessories, spares and consumables**
4.1	System as specified-
4.2	Should be supplied with standard external and internal weights as specified.
5	**Power Supply**
5.1	Power input to be 220-240VAC, 50Hz fitted with Indian plug
5.2	Resettable overcurrent breaker shall be fitted for protection
6	**Standards, Safety and Training**
6.1	should comply with ISO/GLP with auto validation with ink jet printer
6.2	Should be FDA or CE or BIS approved product
6.3	Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450

SCHEDULE NO: 21

	BALANCE ELECTRONIC 0.1 mg-Accuracy (BALANCE MICRO)
1	**Description of Function**
1.1	Electronic Balance is required for precision weighing of Lab samples.
2	**Operational Requirements**
2.1	Microprocessor based single pan Analytical Balance with High accuracy & precision is required.
2.2	Reading of the weight by digital display.
2.3	Electronic top loading balances with transparent case
2.4	The balance should have functions of piece counting, percent weighing, formulation,Dynamic weighing with automatic and manual start and' provision for data interface
3	**Technical Specifications**
3.1	Weigh accurately up to 4th decimal place of one gm.
3.2	Auto self-calibration facility
3.3	Auto zero Setting
3.4	One touch calibration
3.5	Weighing capacity upto 200 gms.
3.6	Repeatability and resolution: 0.1 mg
3.7	Linearity: + 0.2mg
3.8	Stabilization time < 5 second
3.9	Adjustment weight (Int. wt.) 200g
3.10	Adjustment weight (Ex. Wt.): 500 mg, 1 gm, 10gm, 50gm, 100 gm, 200gm
3.11	Balance should have the following features:-
	· Touch Screen/LCD Display
	·Stainless Steel Large Square/round weighing Pan
	·IR Sensors for hands-free operation for personnel security and automatic draft shield opening and closing
	· Warns if the balance is not correctly levelled to ensure the accuracy of results.
	· Automatic and detachable draft shield
	DELETED
	·Suitable tool box to be provided
	·Integrated automatic safety functions for external routine operations.
	·Alphanumeric data entry of 4 ID's
4	**System Configuration Accessories, spares and consumables**
4.1	System as specified
4.2	Should be supplied with standard external and internal weights as specified.
5	**Power Supply**
5.1	Power input to be 220-240VAC, 50Hz fitted with Indian plug
5.2	UPS of suitable rating with voltage regulation and spike protection for 60 minutes backup.
5.3	Resettable overcurrent breaker shall be fitted for protection
6	**Standards, Safety and Training**
6.1	should comply with ISO/GLP with auto validation with ink jet printer
6.2	Should be FDA or CE or UL or BIS approved product
6.3	Electrical safety conforms to standards for electrical safety IEC-60601 / IS-13450
6.4	Manufacturer/Supplier should have ISO certification for quality standards.

SCHEDULE NO: 22

	SPECTROPHOTOMETER (UV VISIBLE RANGE)
1	Optical system- diffraction gratings
2	Wavelength range 190-1100 nm.
3	Wavelength accuracy +/-0.3nm.
4	Absorbance range 0-3 Abs
5	Band pass< 2 nm
6	Light source tungsten and halogen / deuterium/ Xenon lamp
7	Photometric modes Absorbance, % transmittance and Concentration
8	Detector – silicon photodiode
9	Quartz cuvettes 1.0 ml (two pairs)
	2.0 ml (two Pairs)
	3 ml (two pairs) & micro cuvettes
10	Glass cuvettes 1 ml (2 pairs)
	2ml (2 Pairs)
	3ml (2 Pairs) & micro cuvettes
12	Computer: i5 3rd generation with licensed windows operating system, 4GB RAM/ above, 500 GB HD or Higher, DVD RW , 15-17" colour LCD/LED monitor with UPS
13	Printer: Colour laser printer
17	Power supply 220-240 V+/1- 10%
18	Facility for Both Kinetic and End Point assay of Sample volume of minimum 0.5 ml with temperature control.
20	Should be Power backup of half an Hours
21	Should be FDA or CE or BIS approved product

SCHEDULE NO: 23

ELISA READER AND WASHER
A) ELISA READER
Should have reading capability of 1 to 96 wells individually.
Should have a linear measurement range of 0 to 3.000Abs.
Should have wavelength range from 340 to 750nm.
Should have a photometric accuracy of ± 2% or better.
Should have a resolution of 0.001Abs.
Should have variable speed plate shaking capability.
Should have easy access 8 position filter wheel
Machine should be supplied with at least 6 standard filters.
Should have automatic filter selection.
Should have automatic calibration before each reading.
Should have at least 6 second reading speed.
Should have facility for storage of calibration curves.
Should have different types of blanking facility like air wise and well wise.
Should be capable of reading U.V and flat type wells
Should be capable of reading 8 or 12 well strip plates.
Should use halogen light source and two spare bulbs should be provided.
Should have internal thermal printer and 5 rolls of thermal should be supplied along with the unit.
Should have external printer connectivity option.
Firm will have to supply compatible UPS with minimum half hr backup along with the equipment free of cost.
System should USFDA or European CE approved. Also the system should be IVD approved
B) ELISA Plate Washer:
Should have capability to wash flat, U or V bottomed micro plates or 8 or 12 well strip plates.
Should have 8 or 12 way manifold
Should have programmable washing time, volume and soaking time.
Should have minimum 6 wash cycles.
Should have continuous operating cycle.
Should have residual volume less than 2µl.
Should have removable and autoclavable plate carrier.

Should have in-built vacuum and dispensing pumps to ensure accurate and quite washing.
Should have waste bottle with full bottle alarm or sufficient mechanism to avoid spillage and damage to equipment
Should work with input 200 to 240Vac 50 Hz supply.
Should be European CE or US FDA or BIS approved product.
Computer: i5 3rd generation with licensed windows operating system, 4GB RAM/ above, 500 GB HD or Higher, DVD RW , 15-17" colour LCD/LED monitor
Printer: Colour laser printer
Firm will have to supply compatible UPS with minimum half hr backup along with the equipment free of cost.

SCHEDULE NO: 24

INCUBATOR, ELECTRIC
Description of function
Incubator is a closed chamber which heats/chill a sample at a preset temperature for long term for application like culture growth etc.
Operation requirement
Microprocessor /Microcontroller /Microcomputer controlled system.
Technical specification
Capacity: Approx. 100 L with 2 compartments having light in each compartment with UV light.
Interior chamber: Stainless steel for easy cleaning and decontamination.
Timer 1 min to 100 hours and hold position.
Minimum turbulence and no cross contamination.
Adjustable safety thermostat for temperature, with inbuilt temperature sensor.
Internal glass door for the observation.
With minimum two adjustable shelves one with shaking facility (lower shelf).
Audiovisual alarm to indicate when temperature deviates more than 1°C from set point, and when program or time has finished, Alarm may be muted.
Peltier heating with continuous air circulation and heating by natural /forced convection for homogenous temperature distribution.
Temperature range: +5 deg. C above ambient to 80 deg C and variable shaking speed.
There should be a membrane key pad with LCD/LED to set and display operating parameters. Current status, running time and alarm conditions for time and temperature.
Interior lighting facility, insulated door fitted with heavy hinges handles locking, mechanical door lock.
System Configuration Accessories, Spares and consumables.
Flask holding tray of different volume 25 -500ml.
Power Supply
Power input to be 220-240VAC 50Hz fitted with Indian plug
Suitable UPS with maintenance free batteries for minimum one hour backup should be supplied with the system
Standards, Safety and Training
Electrical safety conforms to standards for electricity safety IEC-60601/IS-13450
Should be complaint to ISO 13485: Quality systems-Medical devices-Particular requirement for the application of ISO 9001 applicable to manufactures and service providers that perform their own design activities
Should be FDA or CE approved product

SCHEDULE NO: 25

Ice-lined refrigerator
1. Description of function
1.1 Ice-lined refrigerators maintain temperatures of +2 deg C to +8 deg C Not more than 8 hrs continuous or intermittent power should be sufficient per 24 hrs to maintain vaccine temperature below 8 deg. C.
1.2 Ice-lined refrigerators are required. Since electricity supplies are rarely perfect and standby electricity supplies may not be available.
2. Operational Requirements
2.1 Vaccine storage is required for RI, Campaign and new vaccine introduction.
2.2 Designed for tropical climates.

2.3 Target holdover time should be 20 hrs or more in a continuous external temperature of43 deg. C.
Deleted
2.5 Manufacturing process of the product should not use or produce hazardous chemicals- gases.
2.6 Provision for drainage for the waste water.
2.7 Should have legs in the base with rotating screw type height adjustments to balance the weight on uneven floor.
2.8 The unit should have ground clearance of minimum 100 mm.
3. Technical Specifications
3.1 Net Vaccine Storage Capacity: 90 to 105 liters within basket in place.
3.2 Construction:
3.2.1 Internal: Stainless 304 grade steel and 20 guage.
3.2.2 An additional special ice lining consisting of icepacks covered by strong plastic shell.
3.3 External: Corrosion Resistance (CR at least 1 mm thickness)
3.4 Chest type with CFC – free insulation
3.5 Should have horizontal water cool pack covering the top of the basket.
3.6 Solid door with lock and handle.
3.7 Type: Compression Cycled, CFC-Free (both for refrigeration and insulation) All system tubing (suction tube, freezer tube and condensing tube) should be of minimum 99.97% of pure copper coil.
Deleted
3.9 Inlet of Capillary should be outside the PUF body.
3.10 ON/OFF Switch and power indicator should be available.
3.11 A Microprocessor based control unit should be provided for setting of temperature and display following features.
Deleted
3.11.2 Power on LED/LCD indicator
3.11.3 Audio (minimum 65 dBA) and visual alarm against the violation of temperature range (less than +2 and more than +8 degree C).
3.11.4 Min. & Max. cabinet temperature digital display of last 24 hrs. and breaches during last 24 hrs.
3.11.5 The unit should be sealed protected from dust, moisture or condensed water falling over it.
3.11.6 Accuracy for digital controller +- 0.5 degree centigrade.
4 System Configuration
Deleted
4.2 Should have provision to set minimum and maximum temperature at 0.1 degree Centigrade to programme the unit for continuous operation.
4.3 Should have provision for defrosting program.
5. Accessories, spares and warrantee:
Deleted
5.2 Vaccine Storage Basket allowing free circulation of air, having the size to be able to accommodate 4 to 6 of them in the unit and suitable to match the net volume requirement. It should be minimum 5 wire basket.
5.3 Stem Alcohol thermometer
5.4 The supplier is required to maintain all the spare parts.
6. Environmental factors
6.1 The unit shall be capable of being stored continuously in ambient temperature of 0 to 50deg C and relative humidity of 95%.
6.2 The unit shall be capable of operating continuously in ambient temperature of 5 to 45 deg C and relative humidity of 90%.
6.3 The plug should be flexible and unbreakable sealed rubber type.
7 Power Supply
7.1 Power input to be 220-240VAC, 50Hz as appropriate fitted with Indian plug.
7.2 Suitable Voltage stabilizer
8. Standards and Safety
8.1 Product should be FDA or CE approved.
8.2 Should meet WHO/UNICEF Standard WHO/PQS/E03/RF03.1.for Ice Lined Refrigerators.
8.3 Test and inspection as per WHO procedure reference WHO/PQS/E03/RF03-VP.1 Testing should be carried out from WHO certified lab/NABL/STQC Labs.
8.4 Colour code: WHITE

9. Documentation
10. Packing of the equipment during shipment
11. Following messages should be written at the Top of the ILR.
Added para: - Should be follow as per UNICEF Standard Guidelines and Demonstration is must (Onsite/Off-site).

SCHEDULE NO: 26

	AUTOCLAVE (VERTICAL)
1	Automatic adjustable working pressure system.
2	Double walled.
3	Inside boiler made of stainless steel & outside mild steel finished in cream enamel.
4	Radial locking system lid.
5	The panel is provided with on/off switch, pressure gauge, steam release valve & indicators to show the working of mains & pressure control system.
6	Electrically operated on 220V A/C with stainless steel basket.
7	Operating temperature 121^0 C
8	Capacity approx 100 ltrs
9	Should be FDA or CE or BIS approved product

SCHEDULE NO: 27

ECG Machine Six chanel
Description of Function 1.1 ECG Machine is primary equipment to record ECG Signal in various configurations 2 Operational Requirements 2.1 The ECG Machine should be able to acquire all 12 Leads ECG signals 2.2 Should print all the 12 leads 3 Technical Specifications 3.1 Should acquire 12 lead ECG for both adult and pediatricpatients . 3.2 Should have Artifact, AC, and low and high pass frequency filters. 3.3 Should have an integrated-high resolution, thermal array printer for print of ECGs 3.4 Should have battery capacity of at least 30 ECGs or 30 minutes of continuous rhythm recording on single charge 4 System Configuration Accessories, spares and consumables 4.1 System as specified- 4.2 Patient cable -02 4.3 Chest Electrodes Adult-(set of six) -2 sets. 4.4 Chest Electrodes Pediatric-(set of six) -2 sets 4.5 Limb Electrodes (set of 4)- 02 sets for Adult and 02 sets for Pediatrics. 4.6 Thermal print paper: 10 Rolls/Z Fold 5 STANDARDS 5.1 The product should be CE or FDA or BIS Certified

SCHEDULE NO: 28

	Biosafety cabinet CLASS II A
1	The system should be microprocessor based. 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.
2	Motor must automatically adjust the air flow speed to ensure continuous safe working condition. Air flow shall be as per requirements of Biosafety regulations in respect of at least BSC II A level cabinet
3	The cabinet noise level must be less than 65 decibel
4	Dimensions (Cabinet Size): 6 feet length. The interior of the cabinet shall be of stainless steel or equivalent material and must be smooth to ensure no risk of cuts to the users.
5	Efficiency of HEPA filter should be almost 99.95%

6	In order to ensure consistent and reliable down flow velocity across the supply HEPA filter over the life of the cabinet, the cabinet must use a pressure sensor (rather than anemometer) to detect pressure drop across the supply filter, rather than in just one point across the down flow. The pressure sensor must be encased in order to protect the sensor from temperature, humidity and other environmental phenomena that can impact the sensor‟s performance.
7	Fluorescent lamps for lighting of the interior of the cabinet. Front of the cabinet preferably be angled to help minimize glare.
8	A provision for UV light to disinfect the interior of the cabinet. UV light must be programmable to allow for specific exposure time from 0 to 24 hrs. Automatic UV switch „OFF‟ on opening of front window. The front window should be made of laminated safety glass to protect against leakage of UV rays and to ensure containment of potential hazardous material.
9	Safety alarm / safety display for :
	Low air velocity
	Faulty exhaust fan etc.
10	Power input to be 220-240 V AC, 50 Hz fitted with Indian plug.
11	Should meet NSF standards. Product should be European CE with 4 digit notified body no or US FDA certified
12	Movable stands
13	Warranty should cover UPS and batteries.
14	Calibration certificate shall be provided at the time of installation in respect of all the parameters that require calibration.
15	Audio visual indicator to understand HEPA filter loading to be provided.
16	Drain pan should be made of stainless steel.

SCHEDULE NO: 29

	BOD Incubator
1	The equipment should have Microprocessor controlled temperature.
2	The system should have a temperature control range from +5 degree C to 60 degree C accuracy +/- 1 Deg C.
3	Hermitically sealed compressor with CFC free refrigerant.
4	The heat transfer to environment at 37 C should be 40 W/h.
5	The equipment should have inner chamber volume of 100-125 Litres.
6	Should have lockable castor wheels for movement.
7	The system should have a temperature deviation of+ 0.2 degree C at 37 degree C
8	The system should have heating up time of less than 45 min to achieve 37 degreeC.
9	The equipment should have temperature recovery time of 10 min at 37 C.
10	The equipment should have rounded edges and corners for easy cleaning.
11	Equipment should have interface for the documentation of temperature during incubation.
12	Should work on 220 volts, 50 Hz.
13	Should be USFDA or European CE approved product

SCHEDULE NO: 30

CENTRIFUGE CLINICAL
Description of Function
Centrifuges are required in the Laboratory to separate various components of Blood and any other liquid sample for analysis
Operational Requirements
Aerodynamic compact construction for vibration free performance
Table top version
Technical Specifications
Tube Capacity :No. 24 :Size 5 – 15 ml
Should have a digital timer
Body should be made of strong fabricated & corrosion resistant steel
Control panel – for start/stop switch, dynamic brakes, step less speed regulator with zero start switch & speed indicator with timer and protective fuses.
Door interlock

Maintenance-free brushless drive motor with exact speed preselection and display. Speed range 100 to 6000 rpm and above, accuracy 1 rpm.
RPM : Up to 6000
System Configuration Accessories, spares and consumables
Centrifuge complete with Swig and basic rotors and four buckets- 01 set.
Tube Holders as appropriate
Environmental factors
The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%
Power Supply
Power input to be 220-240VAC, 50Hz as appropriate fitted with Indian plug
Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications.(Input 160- 260 V and output 220-240 V and 50 Hz)
Standards, Safety and Training
The supplier should be ISO certified for quality standards.
Calibration certificate with validity for 1 year.
Should be FDA or CE or UL or BIS approved product

SCHEDULE NO: 31

CO2 INCUBATOR (AIR JACKETED) WITH AUTOMATIC STERILIZATION
1. Inner total volume 180 to 190 liters.
2. Temperature range: +50 degree above ambient to +55degree.
3. Silicon removable autoclavable inner door gasket.
4. Built in HEPA filter Airflow System (100% HEPA filtered air within 1 minute) with internal blower but without FAN inside.
5. Thermal conductivity sensor with two year warranty.
6. On demand sterilization at 140 degreewith 12
7. Alpha numeric character display screen and message screen.
8. Class 100 condition of air inside the chamber within five minutes after door closing.
9. Access code to lock the parameters
10. Alpha numeric message for HEPA filter replacement.
11. should be European CE & USFDA
12. Three Appreciation letter from the reputed institute for similar instruments supplied one & half years back towards it performance & services should be included with the offer.
13.2 CO2 Cylinder & Regulator should be quoted.

SCHEDULE NO: 32

	DEEP FREEZER (-20 DEG. C)-HIGH VOLUME
	Description of Function
1	Deep Freezers are required to preserve blood and blood products, vaccinations etc at specified temperature.
	Operational Requirements
2	Vertical Freezer, at least double door with adjustable 6 to 8 shelves (frost free)
3	Separate Chamber racks to be pulled out for easy handling
4	Non-CFC refrigerant
	Technical Specifications
5	Capacity within 275L to 300L
6	Digital display of set and actual temperature, with audiovisual alarm
7	No condensation on storing material with automatic electric defrost
	Construction:
8	Solid rust free cabinet to prevent corrosion and lockable castor wheels.
	Refrigeration System
9	Heavy Duty refrigeration system, maintenance free, below -20 deg C (± 1 Deg. C) with hermetically sealed refrigeration compressors and reliable refrigeration to minimize noise and vibration, air

	cooled with security lock to prevent unintentional switch off shall be supplied. It should have maximum cooling time hours at maximum ambient temperature of 33deg C. The equipment should be of continuous duty and frost free.
	Alarm
10	Insulation High density polyurethane or equivalent Gaskets - Double seal silicon.
11	Freezer must be manual defrost
12	Should have a keyed on/off switch. and must have interior lighting with external on/off switch
13	must use forced-air circulation to maintain internal conditions
	Environmental factors
14	The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%
15	The unit shall be capable of operating continuously in ambient temperature of 10 -40° C and relative humidity of 15-90%
	Power Supply
16	Power input to be 220-240VAC, 50Hz fitted with Indian plug
	Standards and Safety
17	Should be USFDA or European CE or BIS approved product
	Documentation
18	User manual in English
19	Service manual in English
20	List of Equipment available for providing calibration and routine Preventive Maintenance Support. As per manufacturer documentation in service/technical manual.
21	Certificate of calibration and inspection from factory.
22	Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
23	accessories with their part number and costing available in stock with the supplier.

SCHEDULE NO: 33

	Deep Freezer(-80 °C)
1	TYPE : Upright
2	CAPACITY: 400 – 450 Litres
3	OPERATING TEMPERTURE: Programmable –50°C up to –86°C with 1°C increment at 32 degree ambient.
4	ELECTRIC SUPPLY: 220V/50Hz, 10 Amps. Single phase
5	Fully programmable microprocessor controlled with membrane keypad and eye level control panel.
6	Construction should be of thin vacuum insulation panel
7	System should have Stainless steel interior and tough, powder coated exterior finish.
8	Freezer should have 3 or more Compartment with two or more adjustable height stainless steel shelves
9	Freezer should have the sample (2” vials) capacity of 50,000 or more.
10	The door and front panel air filter should be there.
11	Freezer should be quoted with CO2 Backup along with CO2 cylinder.
12	Heavy duty lockable castors and lockable outer doors.
13	Freezer must have battery back up for display - up and set point security through password protection for preventing unauthorized tampering.
14	Freezer must have interface data logging port and it must also have on board diagnostic software.
15	Freezer must have three or more compartments with inner doors for easy handling of samples.
16	Audible and visible alarms for temperature, power failure, system failure, battery low etc. and it also have remote alarm port for connection to an auto dialer.
17	Freezer must use CFC-FREE , HCFC-FREE refrigerants , and refrigeration system must be energy efficient and hermetically sealed cascade refrigeration system.
18	External or internal voltage stabilizer should be provided so that Compressor should be capable to run any voltage between 190 – 270V. Manufacturing site for the freezer must have ISO 9001 standard quality test requirements and IEC 61010 electrical safety.
19	The unit should be US FDA or European CE approved.
20	Power backup of atleast 2 hrs. should be provided.

SCHEDULE NO: 34

	Elisa Reader and Washer
A	**Elisa Reader:**
1	Wavelength range : 400-750nm
2	Wavelength selection : Filter
3	Eight position filter wheel Filters : 405, 450, 492, 595, 620, 750 Two filters to be installed later as per requirement
4	Light Source : Quartz Halogen
5	Detector :Photodector / CMOS
6	Accuracy : ≤ 2%
7	Precision : 1.5%
8	Linearity : ≤ 2%
9	Resolution : 0.001Abs
10	Photometric Range : 0 - 3.5 Abs
11	Variable speed plate shaking capability
12	Temperature range: ambient to 45□C
13	Capable of reading U, V and Flat type plate reading
14	Speed: Read absorbance of 96 wells in 10- 20 sec
15	User Interface: Onboard touch screen LCD and option for PC Interface
16	Facility to store at least 50 assay protocols
17	Printer: Built in graphical thermal printer and option for external printer connectivity
18	Data Acquisition and analysis software: □ Point to point curve fit □ Polynomial regression, linear & sigmoidal regression, long & linear □ User programmable open system □ Selective plate formatting □ Alphanumeric test name □ Duplicate well option □ Curve plotting and editing □ Flags and error massage
19	Computer system: with compatible Laser printer
	□ Dual Core/ Core 2 duo Intel □ Ram: ≤ 2 GB □ Hard disk: ≤ 180GB □ Operating system: XP or advance
20	Optional accessories to be priced separately: Halogen lamp: qty 5 96 well micro plates: qty 100
B	**Elisa Washer:**
1	Residual volume :< 3 micro liter
2	Dispense accuracy: < 3% CV at 300 micro liter
3	Processing time (Full Plate): 40 - 50 sec, the aspirate /dispense with single or double aspirate
4	With 8/ 12 Probe head
5	Washing programs: aspirate, dispense, mix, soak
6	Inbuilt vaccum and dispensing pump
7	Electricity requirements
8	Supply voltage: 230 ± 10 V, AC, 50/60 Hz. Voltage and plugs to be adapted to meet country requirements.
9	Power consumption: in watts
10	Resettable over current breaker shall be fitted for protection
11	Optional: Battery with a rechargeable battery pack and main power DC transformer/UPS System with 1 hr. power backup.

SCHEDULE NO: 35

Hot Air Oven
Description of Function .
Hot Air Oven is required for heating a sample under controlled conditions.
Operational Requirements
Digital Temperature display with Autolock system
Microprocessor based system with PID-temperature controller with integrated auto diagnostic system with fault indicator.
Thermostatically controlled system
Technical Specifications
External: Stainless Steel Casing :Insulated stainless steel door with locking and rear zinc-plated steel
Interior - Internal Volume at least 55 liters easy-to-clean interior, made of stainless steel, with supports on the three sides for three adjustable perforated stainless steel shelves.
Forced air circulation by quiet air turbine/Fan to ensure uniform temperature
Fitted with load indicator and safety thermostat take over indicator lamp. LCD/LED Indicator
Temperature Variation +/- 1 deg C.
Temperature Range- +50 to 250 deg C.
Output available for data acquisition.
System Configuration Accessories, spares and consumables
System as specified-
Environmental factors
The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%
The unit shall be capable of operating continuously in ambient temperature of 0 -45deg C and relative humidity of 15-90%
Power Supply
Power input to be 220-240VAC, 50Hz fitted with Indian plug
Voltage corrector/stabilizer of appropriate ratings meeting ISI Specifications.(Input 160-260 V and output 220-240 V and 50 Hz)
Standards, Safety and Training
System should confirm to IS:6365-1971(Reaffirmed 1995) with latest amendments in ISI s pecifications for Laboratory Electric Ovens. Alternatively System should be FDA Approved or CE Certified.
Electrical safety conforms to standards for electrical safety IEC-60601 / IS-3450
Should be compliant to ISO 13485: Quality systems - Medical devices - particular requirements for the application of ISO 9001 applicable to manufacturers and service providers that perform their own design activities.

SCHEDULE NO: 36

	LAMINAR AIRFLOW
1	**1 Description of Function**
1.1	1.1 Laminar Airflow is required to make available an environment whose air supply is free of bacteria, fungi, pollen, and practically all air-borne dirt.
2	**2 Operational Requirements**
2.1	2.1 The basic equipment shall consist of a HEPA filter, pre filter, suitable blower assembly, necessary lighting, indicators and controls for the cabinet. The equipment should be mounted on a stand with levelling feet.
3	**3 Technical Specifications**
3.1	3.1 Type of Flow: Horizontal
3.2	3.2 HEPA FILTER: Face dimensions: 4ft (L) X 2ft (W) X 6 ft H
	The HEPA filter should have rated efficiency of 99.97% (or better) at 0.3 microns to provide product protection of Class 100 or exceeding Class 100 requirements of Federal Standards 209E or equivalent ISO within the work. Area
3.3	3.3 PRE Filter with Synthetic, non-woven polyester fibers having casing of enamel painted CRCA frame with Retention of 10 - 15 Micron and 90 % Efficiency. Washable with an arrestance of 90% or better
3.4	3.4. Material of construction: Main body and rear panel: Electro-galvanized steel or Mild Steel, oven baked epoxy powder coated finish. Side window (panels): UV stabilized transparent Perspex

	or polycarbonate or dual metal side walls with negatively pressurised interstitial space. Work table (surface): SS304 or SS316.
3.5	3.5 Working area should be 24 cu ft.
3.6	3.6. Blower Assembly: DIDW type blower or dual brushless DC (BLDC) blower system with high RPM motor, enclosed in a powder coated MS casing suitably suspended in a pair springs & connected to the filter chamber through flexible canvas duct or metal blower plenum.
3.7	3.7 Front Windows Acrylic, fixed by clamps.
3.8	3.8 Illumination with Fluorescent tubes with diffusers. Light Intensity at Work Surface: 800-1000 lux/75-90 foot candles
3.9	3.9 Laminar Airflow Velocity: Approx. 90 feet per minute (fpm) +/-10% average velocity measured 50 mm from the filter face. Uniformity +/-20% of average or better.
3.10	3.10 Additional Requirement: Vibration free Gas burner facility on working bench .Air pressure indicator with manometer (Differential Pressure Gauge with Scale display in cms of water). Drain valve with smooth drainage arrangement. Exhaust ducting as per site requirement
3.12	3.12 UV Germicidal lamp intensity >40 microwatt/sq. cm. over the entire work surface
3.13	3.13 Switched and indicators: Individual switches and indicator lamps for blower motor, florescent lamp and UV lamp.
4	**4 System Configuration Accessories, spares and consumables**
4.1	4.1 System as specified-
4.2	4.2 Other fitting required for attaching auxiliary services are
5	**5 Standards**
5.1	5.1 Should be CE or FDA or BIS approved product

SCHEDULE NO: 37

SI No	Trinocular RESEARCH MICROSCOPE
1	Microscope stand with Coaxial focusing control knobs, coarse motion torque adjustable, Upper stage drive stop incorporated.
2	Color Corrected Infinity Optical System, Anti fungus
3	Choice of different powers of objectives (long barrel 4X, 10X, 40X spring, 100X oil, spring). Objectives should be flat apochromatic.
4	Eyepieces with pointer (paired and compensating) 10X (FOV 20 or more)
5	Mechanical stage of standard dimensions
6	Swing out Type Plan Achromatic Condenser, N.A. 0.90.
7	Light Source: LED with at least 25,000 hrs life time.
8	Lamp should not produce undesirable heat.
9	Cover and Casing for storage of objectives, eyepieces, whole assembly
10	Power Supply 220-240 V AC,
11	C Mount Adapter
12	Microscope should have trinocular tube for attaching the camera.
13	High resolution Digital CCD Camera with resolution: 12.0 mega pixels
14	USB to PC connection
15	16mm lens
16	Macro viewing tube
17	Calibration slide
18	Imaging Software
19	Instant Image Capturing, Real time full screen image
20	Programmed Interval Captures, Video Capture by Time Settings
21	Easy Measurement Calibration, Measurement in microns, inches, millimetres
22	Length Measurements, Ellipse, Rectangle, Irregular Shape Measurements
23	Perimeter, Radius, Circumference Measurements, Angle Measurements
24	Automatic Image amalgamation
25	Image Adjustment Effects,
26	Microscope, Digital imaging system and software should be of the same brand and same manufacturer to ensure complete compatibility and optimum performance.
27	System should supply with suitable PC and 21” Monitor
28	Should be CE or FDA approved

SCHEDULE NO: 38

	Serum inspissators
	· Temperature display: LED; Display resolution: 0.10 C;
	· Capacity for up to 156 test tubes (16mm diameter x 150mm long) or min 100 McCartney bottles
	· Uniformity: tray surface ± 0.7 C;
	· Heater power: (approx.)1.4Kw, 230V;
	· Tank capacity: (approx.)45 lit;
	· Heat up rate 20 to 85 C; 3.5 hours;
	· Working area: length/width: (approx.) 820/594mm;
	· Overall dimensions (approx).: L/W/H: 1040/600/380mm;
	· Over temperature protection: Fixed cut-out;
	· Electrical power: 220-240V 50/60 Hz, 1.5kW(approx.) ,
	· Approx.weight: 25-35 kgs.
	· Double walled. Inner SS 304 and outer GI.
	· Full length inner glass or acrylic door for clean view.
	· Outer metal door with magnetic gasket and lock.
	· Should bear an ISI mark
	· Company should have ISO certification

SCHEDULE NO: 39

Automated Blood Culture System
Description of System :
Micro organism culture is required to be done on blood and body fluid. A sample is inoculated into liquid media and is incubated in a controlled environment for one to seven days.
Operational Requirements:
Fully Automated System capable to culture micro organisms
Technical Specifications
Should work on non radiometric technology
System should have in built calibration check, touch screen monitor. Should have LIS compatibility
Should have modular design which is upgradeable and should be FDA approved
Should be able to monitor the growth of organisms continuously in each cell. The media bottles should have the capacity to neutralize antibiotics
System should be capable of exporting data to the data management system for long term storage and should have the facility to analyse delayed soecimens with the routine bottles
Should be able to grow aerobes, anaerobes and fungi.
Capacity: 400 bottles
Should include Data management system and software to analyse and store the data
Should have the capability for continous monitoring of the samples for growth of organisms in each cell and have the capacity to generate hard copy of each growth kinetics.
Easy to use software for patient information, entry and storage. Long term data storage facility, tracing patient by name, id hospital registration number.
Should have in built incubator with facility for decontamination.
System configuration, Accessories, Spares and Consumables:
System as specified
All consumables required for installation and standardization of system to be given free of cost.
Environmental Factors
The units shall be capable of being stored continuously in ambient temperature of 0 - 50C and relative humidity of 15-90%.
The units shall be capable of being operating continuously in ambient temperature of 10 - 40C and relative humidity of 15-90%.
1 external printer compatible with system should be provided.
Power Supply
Power input to be 220 to 240VAC, 50 Hz fitted with Indian Plug.
Resettable over current breaker shall be fitted for protection
Suitable UPS with maintenance free batteries for minimum 2 hour backup should be supplied with the system.

Standards and Safety
Should be compliant to ISO-13485 Quality Systems medical devices particular requirements for the application of ISO-9001 applicable to manufacturers and service providers that perform their own design activities.
Comprehensive training for Lab Staffs and support service till familiarity with the System.
Electrical Safety conforms to standards for electrical safety IEC-60601/IS 13450
Should be FDA/ CE/ ISI approved product.

SCHEDULE NO: 40

	WEIGHING MACHINE FOR CADAVERS
	Technical specification:
a.	Length of floor scale should be 4 feet to 7 feet.
b.	**Platform for keeping the body – should be sturdy, made of stainless steel, 18 gauge – size 6 feet x 3 feet x 4 inch.**
c.	Should have a digital meter (dial) to display the weight rapidly and measurements can be calibrated to adjust the weight of the platform.
d.	The digital meter (dial) should be enclosed dust proof and water tight stainless steel enclosure mounted on a wall. AC or DC operated.
e.	**Should be able to perform under the most rigorous conditions of a mortuary conducting 15 post-mortem examinations per day measuring dead body weight ranging from 0 kg to 200 kg. Accuracy should be ±200 grams.**
f.	Rechargeable battery back-up pack provided for usage in power failure.
	Standards, safety and Training:
	Should be CE or BIS or ISO approved product.

SCHEDULE NO: 41

Semi Automatic Rotary Microtome with knifes/ Blades
The instrument should have Motorised feeding system with optional motorized and manual sectioning with rocking mode facility
1. Semi Automatic Microtome for variable specimen retraction and sectioning. Five digit digital display.
2. Two separate programmes for trimming and sectioning. Interval single, multi and continuous stroke.
3. Speed control through cutting window.
4. Section thickness setting from 1um to 99um in 1um increments. Cutting speed 0.430mm/sec
5. Section thickness from 0.5 um to 99um.
Three Sectioning modes – one manual and two motorized electronically controlled(continuous and separate)

SCHEDULE NO: 42

	Freezing Microtome with a stand for carbondioxide cylinder(Cryostat)
1	**Description of Function**
1.1	A sledge microtome where the sample is placed into a fixed holder (shuttle), which then moves backwards and forwards across a knife. Freezing microtome is used for cutting thin to semi-thin sections of fresh frozen tissue
1	**Radial Cutting facility**
a)	Knife: 3 1/4" (8cm)
b)	Section Thickness: 5 microns and up Calibrated 5-40 microns
2	**Sledge Cutting**
a)	Knife: 6 2/3" (17cm)
b)	Section Thickness: 0.4 microns and up Calibrated -12 microns
	Speed Range:-
	Maximum: 28 Sections per minute
	Minimum: 2 sections per minute

	Freezer for Microtome
a)	Temperature Range: -40°C to +100°C
b)	Resolution: 1/2 amp (curr. readout) 0.1°C, digital display
c)	Heat Removal: ½ liter/min. Tap water or circulating pump & tank unit
d)	Accessories: Thermocouple microprobe
e)	Should have a stand for CO2 Cylinder.
	Automatic protection against overheating in case of water supply failure
	Controller can be used as an independent digital thermometer and needle microprobe should be provided for this purpose.
2	**Power Supply**
	Power input to be 220-240VAC, 50Hz
3	**Standards, Safety and Training**
	CE/ BIS approved product.

SCHEDULE NO: 43

Automatic Tissue Processor	
1	Description of Function
1.1	Tissues from the body taken for diagnosis of disease processes are processed by the tissue processor in the histology laboratory to produce microscopic slides that are viewed under the microscope by pathologists.
2	Operational Requirements
2.1	Latest Model Fully automatic system with all accessories is required.
2.2	Computer controlled flow through tissue processor to automatically perform fixation, dehydration, cleaning, and paraffin impregnation of tissue. Specimens should remain stationary during processing in a fully enclosed retort while processing reagents and molten paraffin are moved to and from the chamber in a programmed sequence.
3	Technical Specifications
3.1	Capacity (a) 200-250 cassettes in organized basket (b) 275-300 random basket
3.2	Reagent stations – Number of vessels: 10 (1.8- 2 litres each)
3.3	Paraffin stations– Number: 3 (1.8- 2 litres each)
	– Temperature setting range: 35 - 70°C
	– Over temperature release: 75°C > (± 5°C)
3.4	Following programs should be available:
	– Number of programs: 10-12 (selectable)
	– Programmable time per station: From 1 minute to 100 hours
	– Spiral agitation, Vertical agitation, and gentle spinning should be programmable.
	– Program can be delayed start or finished upto 5-7 days in advance.
	-3 Flush options
3.5	Fume extraction system, with active charcoal filter.
3.6	Should be an open system capable of using all consumables from open markets.
3.7	Display of time, date, cycles, step by step record of processing.
3.8	Automatic in process reagent and wax rotation facility.
3.9	Pre heating facility.
3.1	Remote alarm to signal possible problems and reagent change etc.
3.11	Reagent change based on specific gravity of the first alcohol.
3.12	Clear door/lid for viewing specimens during processing.
3.13	Power back up with facility for the basket to remain immersed in solution during power failure.
4	System Configuration Accessories, spares and consumables
4.1	Equipment should be complete in all aspects along with all accessories.
4.2	Equipment should be working from day one of installation.
4.3	Start-up consumables should be provided.
a.	12,000 cassettes with lids.
b.	12,000 wax moulds

c.	Extra beakers - 02 nos.
d.	Tissue baskets - 02 nos.
5	Standards and Safety
5.1	Should be US FDA or European CE or BIS approved product
5.2	Comprehensive training for lab staff and support services till familiarity with the system.

SCHEDULE NO: 44

Autopsy Table with Integral Sink
I. Technical Specifications:
1. Table top
Stainless steel, Type 304, Satin Finish
Should have dissecting area and sink
2. Dissecting Area Should have removable Grid Plates
3. Sink
Plumbing should be factory finished
Should have Hydro-aspirator with reverse flow features and
Should have hot / cold water fixtures with wrist blade handles and gooseneck
4. Vacuum Breaker
5. Faucets
Should have sink rinse with hose fittings and hose hanger
6. Table Pedestal: Stainless steel, Type 304, satin finish
Pedestal type
7. Ventilation: Down draft ventilation system
8. Electrical receptacles: GFCI Type 220 – 240 volts AC 50 Hz
9. Disposer Unit:
Should have Solenoid valve, vacuum breaker with off / on switch control and internal overload protector, ½ to ¾ HP motor
10. Dimensions:
Length: (250 – 270) cm
Width: (75 – 85) cm
Height: (80 – 90) cm min and (95 – 100) cm max
11. Polyurethane Head Rest: Must be able to support neck while dissection
12. Stainless steel Centimetre Scale: Must be engraved type.
13. Scale Support Socket: Must be able to hold the scale support bar steadily.
14. Scale support Bar: Must be able to hold the dial type weighing scale.
15. Weighing Scale with pan: Dial Type: Must measure upto 5 kg.
16. Polyurethane Dissecting Board: 2 feet x 1 ½ feet x ¾ inch, grained surface, white.
IV. Power Supply:
Power input to be 220 – 240 VAC, 50 Hz fitted with Indian plug
V. Standards, Safety and Training:
Should be European CE or US FDA approved product.
Manufacturer should have ISO certification for quality standards

SCHEDULE NO: 45

Pentahead Microscope
Optical system: Infinity corrected system
Focus : Vertical stage movement 25mm per coarse stroke
Vertical stage movement 1micron per fine stroke
Stage rotation of 270 degrees with Stage Lock and
Stage Tension adjustment
Illuminator : Built-in-Koehler illumination for transmitted light LED bulb (pre-centered) and with auto light intensity Adjustment with change of objective lens
Revolving nosepiece : Interchangeable/Removable Reversed Coded Quintuple Nosepiece for auto light adjustment with facility of toggle button to enable swiping of objectives (i.e Revolving nose piece should be automated/ motorized)
Objectives : Plan 2/2.5x, 4/5x, 10X, 40X, & 100XOil
Observation tube: Wide field Trinocular head with Field no 22 mm or more with three Light path selection

of 100:0, 20:80 and 0:100
Stage: Ceramic-coated coaxial stage with right hand low drive Control with X and Y axis Tension adjustment
Condenser: APPROPRIATE SWING OUT CONDENSER FOR 2X - 100X
Digital Camera: Camera attachment capable of handling bright field , dark field images with 2/3" high density CCD Chip, Approx 5.24 Million pixel resolution Built-in TFT LCD monitor (8.4-In) White Balance adjustment, Image Adjustment (Gamma Correction, shading Adjustment, Black level adjustment, Hue Wheel variation, colour saturation adjustment)
Software: Image analysis software that include length, width and circle measurements, comparison of images on PC if not inbuilt supplier has to supply the suitable PC, Printer
System should be European CE with notified body number or USFDA approved product

SCHEDULE NO: 46

Decahead Microscope
Optical system: Infinity corrected system
Focus : Vertical stage movement 25mm per coarse stroke
Vertical stage movement 1micron per fine stroke
Stage rotation of 270 degrees with Stage Lock and
Stage Tension adjustment
Illuminator : Built-in-Koehler illumination for transmitted light LED bulb (pre-centered) and with auto light intensity Adjustment with change of objective lens
Revolving nosepiece : Interchangeable/Removable Reversed Coded Quintuple Nosepiece for auto light adjustment with facility of toggle button to enable swiping of objectives (i.e Revolving nose piece should be automated/ motorized)
Objectives : Plan 2/2.5x, 4/5x, 10X, 40X, & 100XOil
Observation tube: Wide field Trinocular head with Field no 22 mm or more with three Light path selection of 100:0, 20:80 and 0:100
Stage: Ceramic-coated coaxial stage with right hand low drive Control with X and Y axis Tension adjustment
Condenser: APPROPRIATE SWING OUT CONDENSER FOR 2X - 100X
Digital Camera: Camera attachment capable of handling bright field , dark field images with 2/3" high density CCD Chip, Approx 5.24 Million pixel resolution Built-in TFT LCD monitor (8.4-In) White Balance adjustment, Image Adjustment (Gamma Correction, shading Adjustment, Black level adjustment, Hue Wheel variation, colour saturation adjustment)
Software: Image analysis software that include length, width and circle measurements, comparison of images on PC if not inbuilt supplier has to supply the suitable PC, Printer
System should be European CE with notified body number or USFDA approved product

SCHEDULE NO: 47

Grossing work station
Specifications:
Should have all required features for any grossing procedure:-
- Should have type 304 or type 316 stainless steel construction of entire work area and exterior closure panels. All built tough to stand up to years of extensive work without corrosion.
- Height of working table should be adjustable from 32"to 44" via electro hydraulic mechanism.
- Exhaust duct for ventilation with adjustable bellows be provided.
- Large sink with mixing faucet needed.
- Foot operated faucet for hot and cold water.
- Spray hose assembly with hand control.
- ½ hp commercial disposed facility required, with proximity sensing controls.
- Built in end table rinse providing constant flow of water in work area needed.
- Top mounted fluorescent light & mixture needed.
- Flexible light source with mounted Hologen light required.
- Provide slot for Formaline container with spigot.
- Handy magnetic instrument holder be provided.
- Paper towel holder / dispenser for 1 fold towels.
- Polyethylene dissecting board be provided (photo blue)

- Electrical receptacles should be GFCI proff.
- Programmable microprocessor for date, time & filter replacement alarm.
PLUMBING SPECIFICATIONS:
- ¾ Inch hot and cold water supply lines with drain line.
- ½ inch industrial flexible hoses with ¾ inch female hose fittings for connection to water supply.
- 1.5 inches flexible hose for drain line.
EXHAUST SPECIFICATIONS:
SHOULD HAVE THREE VENTILLATION SYSTEM OPTIONS:
-recirculation exhaust:recirculation exhaust with formaldehyde neutralizing filter and blower. Average capture velocity of 89 fpm at vented area and 38 fpm at front of unit.
- External exhaust: Integral blower with external average capture velocity at vented area be 106 fpm.
- Remote exhaust: Connect to facility exhaust system with exhaust air flow of 500cfm and average capture velocity of 128 fpm at vented area
OPTIONAL ACCESSORIES REQUIRED –
-Heavy duty commercial disposal.
- Self contained ventilation assembly.
- Digital platform scale 4 lbs/2 kg capacity.
- Computer, monitor and key board stand
- CPU Stand
- Flex arm halogen lights.
- Adjustable Plexiglas splash shield.
- Hands free controls for water features and disposal.
- Cassette and form holder.
- Camera / Video camera mount facility with sliding arrangement along width of unit.
- Removable measuring rule (cm &inches)
- Dictation machine with voice operated / foot control recording.
- Microphone on flex alarm.
- Fixed upper and lower SS shelving / utility drawers.
- Formaline dispensing unit.
- Glove box holder
- Pull out writing plat form.
- Replacement filters.
- Eye wash assembly
- Tea strainer faucet with manual control, bracket and tea strainer.
- Magnifier on flexible arm.
- On Line UPS 2 KV
AIR-CONDITIONING OF ROOM
Split A.C. of 2.0 Tonne. 1 No.

SCHEDULE NO: 48

Fully automated haematology analyser -5 part Differential with Reties & NRBC
1. Should provide complete blood cell counting including 5 part WBC differential with capability of doing Reties and NRBC enumeration
2. Must be upgradable to attach with fully automated slide-maker & slide stainer in future
3. Must automatically enumerate Nucleated Red Blood Cells in the CBC/Diff Mode and without additional reagents
4. Should be based on the principle of counting and sizing
5. Must analyse leucocytes in their native state throuh laser based scatter analysis .
6. Hemoglobin method equal in accuracy to reference method
7. Extended Platelet counting
8. True 5 part differential analysis by 3 dimensional measurement
9. PC based data management with all scatter plots, histograms and display and in print
10. Automatic probe wipe and wash
11. Open Vial, Predilute and Closed vial mode
12. Must have STAT capability with Positive Bar code identification facility
13. User defined rules & flagging limits
14, Database capacity of at least 20,000 sets of results and graphics

15. Should have workload recording
16. Should have unlimited number of user-definable control files
17. Should have auto stop function in event of unacceptable control data
18. Should be able to transmit results to host computer
19. Throughput should be minimum 100 samples. / hour in Primary mode.
20. Linearity of PLt to be from 0.0 to 3000x1000 cells/microlitres
21. WBC linearity should 0.0 to 3000 x 1000 cells/microlitres
22. Must be able to select CBC, CBC and Diff and Reticulocyte testing mode
23. Must extend analysis time for cytopenic samples (RBC, Plt and WBC)
24. Must directly measure MCV
25. Should be able to differentiate between smaller RBcs and Larger Platelets
26. Must have auto purge function in the software
27. The supplier should have excellent service backup and at least 10 similar machines installed in reputed hospitals/labs.
28. Suitable UPS with One hr backup
29. At least 20 Quality control Files which store 100 runs each XB analysis
30. Should be able to work with Laser printer which should be supplied with the instrument
31. Should not use more than 5 reagents including cleaning agent in order to minimize inventory,lot to lot quality control, maintenance and calibration
32. Should have inbuilt autoloader cum mixer with capability of loading min 90 samples at any time
33. Should be able to provide Min at least 30 different parameters.
34. Installation should include validation as per international standard (eg. Westgard/ CLSI)
35. Calibrators should be available when needed i.e Quarterly (3 months in a year) or on failure of QC
36. Coefficient of variation of test should be less than 30 % of the recommended total acceptable error as the CLSI
37. System should be European CE with notified body number or USFDA approved product
Cost for 1000 Test with all regent, with all control should be supplied with separate rate provided, rate will be calculated for L1 Ranking.

SCHEDULE NO: 49

Three Part Cell Counter
1 Should be fully Automated three part Haematology Analyzer providing at least 18 parameters including a 3 part differential.
2 The system should give a differential count as absolute count and % count for Lymph and Granulocyte.
3 System should be capable of processing samples at 60 samples/hour & storage memory result capacity 10000
4 The system should be aspiration based on actual volume measurement technique and should be independent on time based aspiration for precise sampling send for dilution.
5 System should have auto cleaning mechanism for sample probe to avoid contamination.
6 The system should use non cyanide based reagents for Hb estimation.
7 System for the reliability of the results should have “electrical Impedance” method of cell counting.
8 The system should use to proven and a approved “Volumetric & time Metering” of cell counting for WBC, RBC and PLT for high precision of the results and stability of the calibration with close measuring chamber.
9 The system should have a system of count and aperture monitoring for precision and reliability of counts.
10 The system should have automatic floating discriminator of RBC/PLT.
11 The system should have open mode as well as prediluted mode of sample aspiration.
12 The system should use high intensity LED for HB estimation.
13 System should be user friendly with colour touch screen and should option for inbuilt/ external printer as well as data inter facing.
14 System should be US FDA approved or European CE with 4 digit notified body number certified.
15 Online UPS with 60 min back up should be supplied with the instrument.
16 One set of complete reagent kit should be supplied along with the instrument.
Cost for 1000 Test with allregent,should be supplied with separate rate provided, rate will be calculated for L1 Ranking.

SCHEDULE NO: 50

Fully Automated Coagulation Analyser
1. FULLY AUTOMATIC COAGULATION ANALYSER as Complete walk away facility.
2. Bench top, Random access
3. Tests available: PT. APTT, Fibrinogen, TT, LA, All Factors, ATIII, Heparin, PC, PS, PLG, AP, APCR, DDI, FDP, FM, vWF, etc.
4. Simultaneous measurement of Clotting, Chromomeric and Immunological assays.
5. Insensitive to LIPEMIC, COLORED, HEMOLYSED plasma and turbid reagent
6. Able to use primary sample tube.
7. Ability of continuous sample & reagent loading. i.e. during the run.
8. Ability to add, delete, rerun tests during the run.
9. Have in-built Barcode reader for positive identification of samples and reagents i.e..,name, stability, volume, position etc.
10. Able to detect automatically positive sample and Regent positions
11. Possibility of Auto Rerun and Auto Redilution of samples.
12. Flexibility to rerun, add a test or delete a test, handling of star sample at any time.
13 Availability of minimum 300 cuvette capacity in a roll with continuous loading.
14. Automatic dilution for samples and calibrators.
15. Positive sample and reagents level detection.
16. Have online sample reagents monitoring.
17 Availability of minimum 50 sample positions with continuous loading /STAT facility.
18 Availability of minimum 20 reagent positions, all at 15 deg C
19. Have data storage capacity of more than 500 patient including 10 or more results per patient.
20. Participating company should have direct presence in India with relevant application and service specialist for anytime support
21. Applications; multiple free training to users at site
22. Suitable UPS with One hr backup
23. Installation should include validation as per international standard (eg. Westgard/ CLSI)
24. Calibrators should be available when needed i.e Quarterly (3 months in a year) or on failure of QC
25. Coefficient of variation of test should be less than 30 % of the recommended total acceptable error as the CLSI
26. System should be European CE with notified body number/US FDA approved

SCHEDULE NO: 51

Fluorescent Microscope
Achromatic Objectives : 4x/0.1, 10x/0.25 & 100x/1.25 Oil (Spring),
2 Fluorescence objectives : FL10x and 40x both/0.65 (Spring),
3 'Wide Field Eyepieces : 10x Paired,
4 Nosepiece : Quadruple,
5 Reflected Fluorescence Unit,
6 Mercury lamp house 100 W/DC,
7 Reflected fluorescence illuminator (trinocular, B.G. excitation system)
8 The apparatus should confirm to IS:4381-1967 (reaffirmed 2007) with latest amendments or
equivalent national or international standards for general requirements for optical
components and optical instruments, marking and packing.
9 The quoted model should be USFDA or European CE Approved
10 Voltage regulator of appropriate rating to be included to cope with 160- 260 V.

SCHEDULE NO: 52

Automated Slide Stainers with workstation
Technical Specification
Description of Function
Automatic Slide Stainer is used for staining histological and cytological slides.
Operational Requirements
Should be programmable for routine H & E & other special stains with facility for imuno-histochemical stains & memory of various staining procedures

Technical Specifications
Should hold about 80 slides per basket
Basket chemical capacity 750-1000ml
At least 2(two) water stations with 24 work stations,(Programmable) with timing in minutes & second & facility for single & double load.
Agitational facility
Can be connected with any make automatic cover-slipper
4 System Configuration Accessories, spares and consumables
System as specified-
Bio chemical baskets - 6 Nos.
Slides Hangers - 4 Nos
All consumables required for installation and standardization of system to be given free of cost.
Environmental factors
The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%
The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
A fume hood completely covering the slide plates to prevent hazardous fumes from entering the lab area and an activated charcoal filter to minimize solvent vapors should be provided.
Power Supply
Power input to be 220-240VAC, 50Hz fitted with Indian plug
Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.
Standards and Safety
Should be US FDA or European CE approved product

SCHEDULE NO: 53

Insulin / Drug infusion pump / Infusion pumps
1) The syringe pump should be programmable, user friendly, safe to use and should have battery backup and comprehensive alarm system. 2) Must Work on commonly available standard 5ml/10ml/20ml/50ml/60 ml Syringes with accuracy of minimum of +/-2% or better, with automatic syringe size recognition. 3) European CE or US-FDA approved product. 4) Flow rate programmable from 0.1 to 1000 ml/hr or more in steps of 0.1 ml/hr with user selectable flow set rate option. SAVE last infusion rate even when the AC power is switched OFF. 5) Bolus rate should be programmable to 40 to 1000 ml/hr or more with infused volume display and one key press bolus. Reminder audio after every 1 ml delivered. 6) Display of Drug directory of more than 50 drugs, customized and adjustable. 7) Key board locking system for patient safety. 8) Keep Vein Open (KVO) must be available at 0.1 ml or set rate 9) Selectable Occlusion pressure trigger levels selectable from 300/500/900 mmHg./atleast 3 selectable levels 10) Automatic detection of syringe size & proper fixing. Must provide alarm for wrong loading of syringe such as flanges out of slot; disengaged plunger, unsecured barrel etc. 11) Manual pusher with plunger protection guard.
12) Anti bolus system to reduce pressure on sudden release of occlusion. 13) Should have comprehensive ALARM package including: Occlusion limit exceed alarm. Near end of infusion pre-alarm & alarm, Volume limit pre-alarm & alarm, KVO rate flow, Low battery prealarm and alarm, AC power failure and Drive disengaged alarm. 14) Rechargeable Battery having at least 1 hours backup for about 5ml/hr flow rate with 50ml syringes. Larger battery life and indication of residual life will be preferred. 15) Mounting device/ Docking Station for at least four pumps as per requirement so as to enable to power up to 4 pumps with one power cord when mounted on IV pole –Twenty nos. for each AIIMS. 16) The unit shall be capable of stored and operating continuously in ambient temperature of 10 - 50deg C and relative humidity of 15-90% 17) Power input to be 220-240VAC, 50Hz.

18) Log book with instructions for daily, weekly, monthly and quarterly maintenance checklist. The job description of the hospital technician and company service engineer should be clearly spelt out.
19) User Manual and service manual in English.
20) Should have local service facility .The service provider should have the necessary equipments recommended by the manufacturer to carry out preventive maintenance test as per guidelines provided in the service/maintenance manual.
21) List of important spare parts and accessories with their part number and costing.
22) Bidder has to give demonstration of the quoted model.

SCHEDULE NO: 54

Manikins
Full demonstration of intravenous injection, enema, local, intramuscular injections, intracardiac injection and other routes of drug administration with CPR

SCHEDULE NO: 55

Computer Assisted Learning
One complete License of Software for Each medical College. Latest version, Experimental pharmacology and physiology based on undergraduate and post graduate curriculum •Tutorial and examination mode for instructors and students for demonstration and assessment of experiments • Intuitive Graphic User Interface (GUI) for easy and seamless navigation • Interactive multimedia content rich in live videos, animations and illustration. Should contain **most of the** following experiments 1. Effects of Drugs on Rabbit Eye 2. Bioassay of Histamine on the Ileum of Guinea Pig 3. Effect of Drugs on Ciliary Motility of Frog Oesophagus 4. Effect of Drugs on Isolated Frog Heart 5. Effect of Drugs on Blood Pressure (BP) and Heart Ra:e (HR) of Dog 6. Effect of Drugs on Isolated and Perfused Frog Heart 7. DRC of Acetylcholine on Frog Rectus Abdominis Muscle 8. DRC of Histamine on Guinea Pig Ileum 9. Eff ect of Physostigmine on the DRC of Acetylcholine on Frog Rectus Abdominis Muscle 10. Eff ect of Atropine on the DRC of the Acetylcholine on Rat Ileum 11. Eff ects of Spasmogens and Spasmolytics on the Rabbit Jejunum 12. Determination of PD2 of Serotonin on Rat Stomach Strip Preparation 13. Determination of PA2 of Atropine using Isolated Rat Ileum preparation (by Schild'sPlotMethod) 14. Determination of PA2 of Prazosin on Rat Anococcygeous Muscle Preparation (by Schild Plot Method) 15. Determination of PD2 of Acetylcholine on Frog Rectus Abdominis 16. Determination of PD2 of Histamine on Guinea Fig ileum 17. Bioassay of Oxytocin by Interpolation Method using Isolated Rat Uterus Preparation 18. Bioassay of Serotonin on Rat Stomach Strip by Three Point Assay Method
19. Bioassay of Atropine (an Antagonist) by Interpolation Method 20. Bioassay of Acetylcholine on Rat Ileum by Three Point Assay Method 21. Bioassay of Adrenaline by Interpolation Method using Isolated Rabbit Jejunum Preparation 22. Eff ect of Drugs on Locomotor Activity in Mice using Actophotometer
23. Demonstration of Analgesic Activity of Drug in Mice using Eddy's Hot Plate 24. Determination of the Anticonvulsant Eff ect of Phenytoin in Mice using Electroconvulsiometer 25. Screening of Eff ect of CNS Depressant and Skeletal Muscle Relaxant Drugs using Rotarod Apparatus 26. Routes of Drug Administration 27. Experimental Animals Routinely used in Pharmacological Research 28. Euthanasia in Experimental Animals

SCHEDULE NO: 56

	BINOCULAR RESEARCH MICROSCOPE
1	Microscope stand with Coaxial focusing control knobs, coarse motion torque adjustable, Upper stage

	drive stop incorporated.
2	Color Corrected Infinity Optical System, Anti fungus
3	Choice of different powers of objectives (long barrel 4X, 10X, 40X spring, 100X oil, spring). Objectives should be flat apochromatic.
4	Eyepieces with pointer (paired and compensating) 10X (FOV 20 or more)
5	Mechanical stage of standard dimensions
6	Swing out Type Plan Achromatic Condenser, N.A. 0.90.
7	Light Source: LED with at least 25,000 hrs life time.
8	Lamp should not produce undesirable heat.
9	Cover and Casing for storage of objectives, eyepieces, whole assembly
10	Power Supply 220-240 V AC,
11	C Mount Adapter
12	Microscope should haveBINOCULAR tube for attaching the camera.
13	High resolution Digital CCD Camera with resolution: 12.0 mega pixels
14	USB to PC connection
15	16mm lens
16	Macro viewing tube
17	Calibration slide
18	Imaging Software
19	Instant Image Capturing, Real time full screen image
20	Programmed Interval Captures, Video Capture by Time Settings
21	Easy Measurement Calibration, Measurement in microns, inches, millimetres
22	Length Measurements, Ellipse, Rectangle, Irregular Shape Measurements
23	Perimeter, Radius, Circumference Measurements, Angle Measurements
24	Automatic Image amalgamation
25	Image Adjustment Effects,
26	Microscope, Digital imaging system and software should be of the same brand and same manufacturer to ensure complete compatibility and optimum performance.
27	System should supply with suitable PC and 21” Monitor
28	Should be CE or FDA approved

SCHEDULE NO: 57

	Cold Storage for keeping 4 dead bodies
1	Corrosion free interior and exterior.
2	Audio visual alarm for high and low temperature.
3	Designed for long storage of cadaverous.
4	PUF insulation on all sides.
5	Special design ensuring best hygiene with washing & draining facility.
6	Reliable
7	Tray or Trolley should be available in the mortuary chamber so that the cadaver can be pushed inside or pulled outside the chamber smoothly.
8	Energy efficient and sturdy construction.
9	Light weight.
10	Digital temperature indication.
11	Low maintenance.
12	Microprocessor based / PLC temperature control.
14	Outer body of the mortuary chamber is constructed out of thick S.S sheets. The inner chamber made of heavy gauge stainless steel sheet of SS-304 grade. The 100mm gap between the walls filled high grade poly urethane insulation, which ensures maximum thermal efficiency.
15	The doors connected by very sturdy chrome plate hinges and fitted with hard chrome plated lubricated latches for opening of the door.
16	The doors made of galvanized steel sheets, lined with stainless steel for extra protection and long life.
17	All the doors fitted with high quality neoprene rubber gaskets for airtight fittings with very sturdy casters.
18	CFC free compressors, conforming to latest international standards and guidelines.
19	Vapor proof lamp inside.
20	Temperature range -2 to 4 deg C with temp failure alarms.

21	Suitable Voltage automatic stabilizer O/P 230 +/-10% I/P 150 – 280Volts.
22	To be installed at each site as per the site conditions.
22	The unit should be (2 x 2) format.

SCHEDULE NO: 58

OT light Shadowless adjustable
Should be a Surgical Light unit incorporating the latest LED technology shadowless operating light field with the following specifications.
1. Should have Single Colour high performance LEDs with life time more than 40,000 hours.
2. Should be a dual dome and the main light and satellite should have the following specifications a. LUX intensity 1,40,000 Lux & Satellite 1,40,000 Lux or above. b. Light Field diameter shall be above 24 cm or better. c. Colour temperature should be between 4000 to 4500 degree K d. Colour rendering index should not be less than 95 e. Depth of illumination should not be less than 100 cm. f. Illumination adjustment 30% to 100% g. The light dome shall be compatible for laminar air flow.
3. Should have stable illumination throughout the life period of the light. If the intensity reduces during the warranty or CMC period the LEDs has to be replaced at free of cost if required.
4. The LED's must be of a single color suitable for long term maintenance and ease of replacement.
5. Temperature rise at the surgeon head level should be less than 2 degree C.
6. Should have control panel for light focusing adjustment fixed on the dome or arms.

GENERAL TECHNICAL SPECIFICATIONS

GENERAL POINTS:

1. Warranty:
   a) Two years Comprehensive Warranty as per Conditions of Contract of the TE document for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) Warranty period will be 2 years from the date of installation, commissioning and Site Modification Work from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/Institution/Medical College.
   b) 95% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.

   c) All software updates should be provided free of cost during Warranty period.

2. After Sales Service:

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

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

4. Annual Comprehensive Maintenance Contract (CMC) of subject equipment withSite Modification Work:

   a) The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual of the

manufacturer, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) and Site Modification Work (if any). The supplier shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, but at least once in six months during the CMC period

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

5. Site Modification Work:

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

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

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

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

Note 2: General: Bidders are requested to make sure that they should attach the list of equipment for carrying out routine and preventive maintenance wherever asked for and should make sure that Electrical Safety Analyzer / Tester for Medical equipment 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 equipment s. If the Electrical Safety Analyzer/Tester is not available they should provide a commitment to get the equipment checked for electrical safety compliance with Electronic Regional Test Labs / Electronics Test and Development Centres across the country on every preventive maintenance call.

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

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

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

Section – VIII

Quality Control Requirements

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

Tender Reference No.
Date of opening
Time
Name and address of the Tenderer:
Note: All the following details shall relate to the manufacturer(s) for the goods quoted for.

01 Name of the manufacturer
- a. full postal address
- b. full address of the premises
- c. telegraphic address
- d. telex number
- e. telephone number
- f. fax number

02 Plant and machinery details
03 Manufacturing process details
04 Monthly (single shift) production capacity of goods quoted for
- a. normal
- b. maximum

05 Total annual turn-over (value in Rupees)
06 Quality control arrangement details
- a. for incoming materials and bought-out components
- b. for process control
- c. for final product evaluation

07 Test certificate held
- a . type test
- b . BIS/ISO certification
- c . any other

08 Details of staff
- a. technical
- b skilled
- c unskilled

Signature and seal of the Tenderer

Section – IX

Qualification Criteria

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

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

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

3. The start-ups claiming exemption on the required prior experience, and complying the condition of GIT Clause 35.3 (iv), should furnish along with the bid

   (i) All necessary documents in support of the claim regarding exemption on prior experience as mandated by concerned Ministry/ Board of Govt. of India.

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

NOTE:

1. The tenderer shall give an affidavit as under:

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

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

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

3. The Tenderer shall furnish a brief write-up, packed with adequate data explaining and establishing his available capacity/capability (both technical and financial) to perform the Contract (if awarded) within the stipulated time period, after meeting all its current/present commitments. The Tenderer shall also furnish details of Equipment and Quality Control in the enclosed Section VIII.

4. Notwithstanding anything stated above, the Purchaser reserves the right to assess the Tenderer's capability and capacity to perform the contract satisfactorily before deciding on award of Contract, should circumstances warrant such an assessment in the overall interest of the Purchaser.

5. The Purchaser reserves the right to ask for a free demonstration of the quoted equipment at a pre determined place acceptable to the purchaser for technical acceptability as per the tender specifications, before the opening of the Price Tender.

PROFORMA 'A'
PROFORMA FOR PERFORMANCE STATEMENT

(For the period of last five years)

Tender Reference No. : _____

Date of opening : _____

Time : _____

Name and address of the Tenderer : _____

Name and address of the manufacturer : _____

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

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

Signature and seal of the Tenderer

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

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

Section – X
TENDER FORM

Date_____

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

Ref. Your TE document No. _____dated _____

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

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

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

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

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

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

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

SECTION – XI
PRICE SCHEDULE

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

SECTION – XII
QUESTIONNAIRE

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

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

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

3. In case a tenderer furnishes a wrong or evasive answer against any of the question/issues, their tender is liable to be ignored.

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

SECTION – XIII

BANK GUARANTEE FORM FOR EMD

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

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

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

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

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

…….
(Signature with date of the authorised officer of the Bank)
…….
Name and designation of the officer
…….
…….
Seal, name & address of the Bank and address of the Branch

SECTION – XIV

MANUFACTURER'S AUTHORISATION FORM

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

Dear Sir,

Ref: Your TE document No _____ dated _____

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

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

We further confirm that no supplier or firm or individual other than Messrs. _____ (*name and address of the above agent*) is authorised to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.
We also hereby extend our full warranty, CMC as applicable as per clause 15 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

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

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

Yours faithfully,

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

Note:
(2) This letter of authorisation should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.
(3) Original letter may be sent.
(4) The purchaser reserves the right to verify this document with its signatory.

SECTION – XV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY

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

WHEREAS _____ (Name and address of the supplier) (Hereinafter called "the supplier") has undertaken, in pursuance of contract no_____ dated _____ to supply (description of goods and services) (herein after called "the contract").

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

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

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

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

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

This guarantee shall be valid till such time to cover two months beyond the warranty period from the date of Notification of Award i.e. up to _____ (indicate date).

…….
(Signature with date of the authorised officer of the Bank)
…….
Name and designation of the officer
…….
…….
Seal, name & address of the Bank and address of the Branch

SECTION – XVI

CONTRACT FORM - A

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

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

Contract No_____ dated_____

This is in continuation to this office's Notification of Award No_____ dated _____

1. Name & address of the Supplier: _____

2. Purchaser's TE document No___ _____ dated_____ and subsequent Amendment No_____, dated_____ (if any), issued by the purchaser

3. Supplier's Tender No_____ dated_____ and subsequent communication(s) No_____ dated _____ (if any), exchanged between the supplier and the purchaser in connection with this tender.

4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:

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

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

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

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

Any other additional services (if applicable) and cost thereof: _____
Total value (in figure) _____ (In words) _____

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

6. Warranty clause

7. Payment terms

8. Paying authority

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

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

Date: _____

Place: _____

CONTRACT FORM – B

CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT

Annual CM Contract No._____ dated_____

Between
(Address of Head of Hospital)

And
(Name & Address of the Supplier)

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

In continuation to the above referred contract

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

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

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

2. 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)

3. The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years as contained in the above referred contract on yearly basis for complete equipment (including X ray tubes, Helium for MRI, Batteries for UPS, other vacuumatic parts, _____ & _____) and Site Modification Work (if any).
4. There will be 95% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
5. 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.
6. All software updates should be provided free of cost during CMC.

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

_____
(Signature, name and address
of Hospital authorised official)
For and on behalf of_____

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

Date: _____

Place: _____

SECTION – XVII

CONSIGNEE RECEIPT CERTIFICATE

(To be given by consignee's authorized representative)

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

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

SECTION – XVIII
Proforma of Final Acceptance Certificate by the Consignee

No_____ **Date_____**

To

M/s _____
_____
_____

Subject: Certificate of commissioning of equipment /plant.

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

(a) Contract No_____ dated_____

(b) Description of the equipment (s)/plants: _____

(c) Equipment (s)/ plant(s) nos.:_____

(d) Quantity: _____

(e) Bill of Loading/Air Way Bill/Railway Receipt/ Goods Consignment Note no_____ dated _____

(f) Name of the vessel/Transporters:_____

(g) Name of the Consignee:_____

(h) Date of site hand-over to the supplier by consignee: :_____

(i) Date of commissioning and proving test:_____

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

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

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

The supplier has fulfilled its contractual obligations satisfactorily ## or

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

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

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

is
The amount of recovery on account of non-supply of accessories and spares is given under Para no.02.
The amount of recovery on account of failure of the supplier to meet his contractual obligations is_____ (here indicate the amount).

(Signature)
(Name)
(Designation with stamp)

Explanatory notes for filling up the certificate:

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

Section – XIX

Consignee List

Sl. No.	Name of Hospital and Address	State
1	Government Medical College Chhindwara, Near T. B. Sanatorium, Chhindwara, M.P.	**Madhya Pradesh**
2	Government Medical College, Datia Thandi Sadak, Near 29th Batallian, NH – 75, Datia, 475661,M.P	**Madhya Pradesh**
3	Government Medical College, Khandwa Love Kush Nagar, Khandwa, 450001 Madhya Pradesh	**Madhya Pradesh**
4	Government Medical College, Ratlam Village- Banjali Sailana Road, Ratlam, M.P.	**Madhya Pradesh**
5	Government Medical College, Shahdol Village Champa, Kudri Road, Near New Bus stand, Shahdol, MP.	**Madhya Pradesh**
6	Government Medical College, Shivpuri Gwalior Highway, Near Katha mil, Shivpuri (M.P).	**Madhya Pradesh**
7	Government Medical College, Vidisha Sanchi Road, Vidisha (M.P).	**Madhya Pradesh**