TENDER ENQUIRY DOCUMENT

FOR PURCHASE OF
MEDICAL EQUIPMENT

FOR AND ON BEHALF OF

EMPLOYEE STATE INSURANCE CORPORATION

UNDER THE ADMINISTRATIVE CONTROL OF
MINISTRY OF LABOUR AND EMPLOYMENT
GOVT. OF INDIA

HLL/PCD/ESIC-41/10-11

BY

HLL Lifecare Limited

(A GOVT. OF INDIA ENTERPRISE & Formerly HINDUSTAN LATEX LTD.)
Procurement & Consultancy Services Division
B-14A, Sector-62, Noida-201 307, Uttar Pradesh, India
Ph: 0120-4071500; Fax: 0120-4071513
URL: www.lifecarehll.com
Email: pcd@lifecarehll.com

INDEX

SECTION I

NOTICE INVITING TENDERS (NIT)

HLL LIFECARE LIMITED
(A GOVERNMENT OF INDIA ENTERPRISE)
Procurement & Consultancy Services Division
B-14A, Sector-62, Noida-201 307, Uttar Pradesh, India
Ph: 0120-4071500; Fax: 0120-4071513
Email: pcd@lifecarehll.com

Tender Enquiry No. HLL/PCD/ESIC-41/10-11 **Date:14.01.2011**

1. Procurement & Consultancy Services Division of HLL Lifecare Limited (Formerly Hindustan Latex Limited), for and on behalf of Director General of Employee State Insurance Corporation (ESIC), invites sealed tenders, from eligible and qualified tenderers for supply of following **Medical Equipment** for ESI Hospitals, **Baddi,Basaidarapur, Biwadi, Noida, Chandigarh, Manesar, Jaipur, Ludhiana**:

Sr No	ITEM DESCRIPTION	Total Qty	EMD Amount Rs.
1	Baby Warmer	3	14400
2	Portable Ultrasound B & W	3	42000
3	Vaccum Extractor pump with cups for OBST & Gynae	3	18000
4	Tourniquet – Automatic Electronic	2	8000
5	Cryosurgical Unit for Gynae Use	3	30000
6	Impedance Audiometer	1	2000
7	Harmonic Scalpel	1	30000
8	Color Doppler system	1	60000
9	80 KW HIGH FREQUENCY X-RAY MACHINE	1	120000
10	Anesthesia Workstation	9	360000
11	Portable Ventilator	7	70000
12	ICU Ventilator	25	650000
13	Warming Blankets(patient warming system)	12	60000
14	Pulse Oximeter	31	31000
15	Blood Vessel Sealer with advanced bipolar technology	1	17000
16	Ultrasonic Cutting and Coagulation Devices for open/laparoscopic surgery	2	60000
17	Computerized Radiovisiography Systems(RVG)	1	6000
18	Bilirubinometer	3	18000
19	Cryostat system	2	36000
20	QBC Blood Parasite detection system	3	48000
21	Glass cover slipper model	2	10000
22	Automatic Tissue Processor	1	10000
23	Electrophoresis & Densitometer	1	10000
24	Automatic Tissue Embedding Centre	1	24000
25	Elisa reader with washer	3	30000
26	Fully Motorized Rotary Microtome	1	2400

27	Arterial Blood Gas Analyzer	4	400000
28	CPM Unit	3	24000
29	Short Wave Diathermy	1	5000
30	LASER Therapy with IRR	1	6000
31	Microwave Therapy	1	10000
32	Automatic Cell Counter(Haemato Analyser)-3 parts	1	30000
33	Automatic Bio-Chemistry analyzer- Random Access	3	24000
34	Cardiac monitor with Defibrillator	1	10000
35	Dental Chair	1	12000
36	Dental Chair Unit complete with all accessories	1	74000
37	Black & White Ultrasound Machine	1	40000
38	Baby Basinet	2	3000
39	D & C Set	5	10000
40	LSCS set	3	12000
41	Tuboplasty Set	3	12000
42	ENT Operating Microscope	1	60000
43	ENT Examination Chair	1	8000
44	Pure Tone Audiometer	1	20000
45	Mastoid Drill	1	4000
46	Digital Slit Lamp with Photography	1	40000
47	Electrosurgical Unit	5	50000
48	Cystoscope	1	12000
49	BOD Incubator	1	6000
50	Ultrasound Machine	2	120000
51	Cystorectoscope	1	12000
52	Biosafety Cabinet Level II	2	40000
53	Automatic Biochemistry analyser	2	20000
54	Glycosylated Haemoglobinometer	1	12000
55	Camera for Digital x ray & Mammography	1	18000
56	Ultrasoud machine 2 D with colour Doppler	2	160000
57	Oxytocin Infusion Pump	2	2400
58	Cardiotocograph	2	16000
59	Anaesthesia Reuscitation kit	1	2000
60	Digital ECG Machine(12 Leads)	1	7000
61	Opthalmic Ultrasound(A & B)	2	60000
62	Auto Kerato Refractometer	1	20000
63	Phaco Emulsification Machine	1	100000
64	Slit Lamp	1	16000
65	Referigerator 2000 litres for kits	2	8000
66	Referigerator 300 litres	15	3600
67	Dangerous Drug cabinet	10	40000
68	Binocular Microscope with illumination & photography	3	60000

2. **Tender No.: HLL/PCD/ESIC-41/10-11**

Sl No.	Description	Schedule
i.	Dates of sale of tender enquiry documents	14.01.2011 to 15.02.2011, in all working days, during 1000 Hrs. to 1600 Hrs. (IST)
ii.	Place of sale of Tender Enquiry Documents	HLL Lifecare Limited Procurement & Consultancy Services Divn. B-14A, Sector-62, Noida -201 307
iii.	Cost of the Tender Enquiry Document	Rs. 3,000.00/ USD 75.00
iv.	Pre Tender Meeting Date & Time	22.01.2011, 1500 Hrs. (IST)
v.	Pre Tender Meeting Venue	Same as given in 2 (ii)
vi.	Closing date & time for receipt of Tender	**17.02.2011, 1400 Hrs. (IST)**
vii.	Time and date of opening of Techno-Commercial tenders	17.02.2011, 14.30 Hrs. (IST)
viii.	Venue of Opening of Techno-Commercial Tender	Same as given in 2 (ii)

3. Interested tenderers may obtain further information about this tender from the office of Head (P&CD), HLL Lifecare Ltd., Noida. Tender Enquiry Documents may be purchased on payment of non-refundable fee of Rs. 3,000.00/ USD 75.00 per set in the form of account payee Demand Draft/Pay Order/Cashier's Cheque/Banker's Cheque, drawn on a scheduled bank in India, in favour of **"HLL Lifecare Limited"** payable at New Delhi**.**

4. If requested, the Tender Enquiry Documents will be mailed by Registered Post/Speed Post to the domestic tenderers and by international airmail to the foreign tenderers, for which extra expenditure per set will be Rs 100.00 for domestic post and USD 50.00 for international airmail. The tenderer is to add the applicable postage cost in the non-refundable fee mentioned in Para 3 above. However, HLL Lifecare Ltd. shall not be responsible for any postal loss/delay.

5. Tenderer may also download the tender enquiry documents from the web site www.esic.nic.in or www.lifecarehll.com and submit its tender by utilizing the downloaded document, along with the required non-refundable fee as mentioned in Para 3 above.

6. All prospective tenderers may attend the Pre Tender meeting. The venue, date and time indicated in the Para 2 above

7. Tenderers shall ensure that their tenders, complete in all respects, are dropped in the Tender Box located at **HLL Lifecare Limited, Procurement and Consultancy Division, B-14A, Sector-62, Noida -201307, Uttar Pradesh** on or before the closing date and time indicated in the Para 2 above, failing which the tenders will be treated as late tender and rejected. The tenders sent by post/ courier must reach the above said address on or before the closing date & time indicated in Para 2 above, failing which the tenders will be treated as late tender and rejected.

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

9. The Tender Enquiry Documents are not transferable.

10. All Tenders must be accompanied by EMD as mentioned against each item. Tenders without EMD shall be rejected.

For and on behalf of **Employee State Insurance Corporation**
Head (P & CD)
HLL Lifecare Limited,
Procurement and Consultancy Division
B-14A, Sector -62, Noida -201307,
Uttar Pradesh.

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

1.3 Abbreviations:

(i) "T E Document" means Tender Enquiry Document
(ii) "NIT" means Notice Inviting Tenders.
(iii) "GIT" means General Instructions to Tenderers
(iv) "SIT" means Special Instructions to Tenderers
(v) "GCC" means General Conditions of Contract
(vi) "SCC" means Special Conditions of Contract

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

2. Introduction

2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section – VI – "List of Requirements", which also indicates, *interalia,* the required quantity, delivery schedule, terms and place of delivery.

2.2 This section (Section II - "General Instructions to Tenderers") provides the relevant information as well as instructions to assist the prospective tenderers in preparation and submission of tenders. It also includes the mode and procedure to be adopted by the purchaser for receipt and opening as well as scrutiny and evaluation of tenders and subsequent placement of contract.

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

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

3. Deleted

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 a notarised 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 notarised English translation, in which case, for purpose of interpretation of the tender etc, the English translations shall prevail.

5. Eligible Tenderers

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

6. Eligible Goods and Services

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

7. Tendering Expense

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

B. TENDER ENQUIRY DOCUMENTS

8. Content of Tender Enquiry Documents

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

Section II – General Instructions to Tenderers (GIT)
Section III – Special Instructions to Tenderers (SIT)
Section IV – General Conditions of Contract (GCC)
Section V – Special Conditions of Contract (SCC)
Section VI – List of Requirements
Section VII – Technical Specifications
Section VIII – Quality Control Requirements
Section IX – Qualification Criteria
Section X – Tender Form
Section XI – Price Schedules
Section XII – Questionnaire
Section XIII – Deleted
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 – Details of Shipping arrangement for Liner Cargoes in respect of C&F/CIF/Turnkey/F.O.R. Contracts for Import
Section XX – Check List for the Tenderers
Section XXI – Consignee List

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

9. Deleted

10. Clarification of TE documents

A tenderer requiring any clarification or elucidation on any issue of the TE documents may take up the same with the purchaser in writing. The purchaser will respond to such request provided the purchaser receives the same minimum 1 (one) hour prior to the scheduled time of pre-bid meeting. Clarification for the same will be published on the websites as mentioned in para 5 of NIT (Section I) within 4 days after the prebid meeting.

C. PREPARATION OF TENDERS

11. Documents Comprising the Tender

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

A) <u>Techno – Commercial Tender (Un priced Tender)</u>

i) Earnest money furnished in accordance with GIT clause 19.
ii) Tender Form as per Section X.
iii) Documentary evidence, as necessary in terms of clauses 5 and 17 establishing that the tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.
iv) Tenderer/Agent who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorisation in the prescribed format as per Section - XIV.
v) Power of Attorney/Authorisation in favour of signatory of TE documents.
vi) Documents and relevant details to establish in accordance with GIT clause 18 that the goods and the allied services to be supplied by the tenderer conform to the requirement of the TE documents.
vii) Performance Statement as per section IX along with relevant copies of purchase orders and end users' satisfaction certificate.
viii) Price Schedule(s) as per Section XII filled up with all the details including Qty., Make, Model, Contry of origin, etc. of the goods offered with prices blank (without indicating any prices).
ix) Certificate of Incorporation of the bidder.
x) Checklist as per Section XX.
xi) Statement of deviations parameter wise from tendered technical specifications, if any.

B) <u>Price Tender:</u>

The information given at clause no. 11.1 A) - viii) above should be reproduced with the prices indicated.

N.B.

1. All pages of the Tender should be page numbered and indexed.
2. It is the responsibility of tenderer to go through the TE document to ensure furnishing all required documents in addition to above, if any.

11.2 The authorized signatory of the tenderer must sign the tender duly stamped at appropriate places and initial all the remaining pages of the tender.

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

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

12. Tender currencies

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

12.2 For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currencies say USD, Euro, GBP or Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only if such services are to be performed /undertaken in India. Commission for Indian Agent, if any and if payable shall be indicated in the space provided for in the price schedule and will be payable in Indian Rupees only.

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

13 Tender Prices

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

13.2 The tenderer has the option to submit its quotation for any one or more item (s) in the List of Requirements. However, separate sealed cover to be used for each item for price bid.

13.3 The quoted prices for goods offered from within India and that for goods offered from abroad are to be indicated separately in the applicable Price Schedules attached under Section XI.

The price quoted by the tenderer for indigenous goods shall not be higher than the lowest price charged for the goods of the same nature, class or description to an individual/ firm/ organisation or department of Govt. of India.

For imported goods, the price quoted shall not be higher than the lowest price charged by the tenderer for the goods of the same nature, class or description to a purchaser, domestic or foreign or to any organisation or department of Govt. of India.

If it is found at any stage that the goods as stated have been supplied at a lower price, then that price, with due allowance for elapsed time will be applicable to the present case and the difference in cost would be refunded by the supplier to the purchaser, if the contract has already been concluded.

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

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

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

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

a) the price of goods quoted FOB port of shipment, as indicated in the List of Requirements and Price Schedule;
b) the amount of freight and insurance and price of goods quoted CIP port of entry in India as indicated in the List of Requirements and Price Schedule;
c) the **price of goods quoted should be on DDP basis at consignee site in India** as indicated in the List of Requirements, Price Schedule and Consignee List;
d) wherever applicable, the amount of custom duty with CDEC applicable on CIP value on the goods to be imported; ESIC will issue Customs Duty Exemption Certificate (CDEC) where applicable.
e) the charges for Loading/Unloading, Inland transportation, Insurance and other local costs, Incidental cost to delivery of the goods from the port of entry in India to Consignee Site, as specified in the List of Requirements and Price Schedule;
f) the charges for Incidental Services, as in the List of Requirements and Price Schedule;
g) the prices of Turnkey (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
h) the price of CMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.5 Additional information and instruction on Duties and Taxes:

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

13.5.2 Excise Duty:

a) If reimbursement of excise duty is intended as extra over the quoted prices, the supplier must specifically say so also indicating the rate, quantum and nature of the duty applicable. In the absence of any such stipulation it will be presumed that the prices quoted are firm and final and no claim on account of excise duty will be entertained after the opening of tenders.

b) If a Tenderer chooses to quote a price inclusive of excise duty and also desires to be reimbursed for variation, if any, in the excise duty during the time of supply, the tenderer must clearly mention the same and also indicate the rate and quantum of excise duty included in its price. Failure to indicate all such details in clear terms may result in rejection of that tender.

c) Subject to sub clauses 13.5.2 (a) & (b) above, any change in excise duty upward/downward as a result of any statutory variation in excise duty taking place within contract terms shall be allowed to the extent of actual quantum of excise duty paid by the supplier. In case of downward revision in excise duty, the actual quantum of reduction of excise duty shall be reimbursed to the purchaser by the supplier. All such adjustments shall include all reliefs, exemptions, rebates, concession etc. if any obtained by the supplier.

13.5.3 Sales Tax:

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

13.5.4 Octroi Duty and Local Duties & Taxes:

Octroi duty, terminal tax and other levies of local bodies (like town body, municipal body etc.) if not exempted shall be reimbursed to the supplier on production of such proof of payment along with the final bill.

13.5.5 Customs Duty:

The tenderer shall quote the Customs duty wherever applicable, considering availability of CDEC. The applicable rates and amount of the Custom Duty and the corresponding Indian Customs Tariff number should be shown separately in the price schedule. In case of non-availibility of CDEC, the supplier has to custom cleared the goods paying the applicable Custom Duty and any difference of duty from the applicable CDEC rate shall be reimbursed separately on production of such proof of payment alongwith the final bill.

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

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

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

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

14. Indian Agent

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

a) The complete name and address of the Indian Agent and its permanent income tax account number as allotted by the Indian Income Tax authority.
b) The details of the services to be rendered by the agent for the subject requirement.
c) Details of Service outlets in India, nearest to the consignee(s), to render services during Warranty and CMC period.

15. Firm Price

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

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

16. Deleted

17 Documents Establishing Tenderer's Eligibility and Qualifications

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

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

a) in case the tenderer offers to supply goods, which are manufactured by some other firm, the tenderer has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The tenderer shall submit the manufacturer's authorization letter to this effect as per the standard form provided under **Section XIV** in this document.
b) the tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.
c) in case the tenderer is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.
d) in case the tenderer is an Indian agent/authorized representative quoting on behalf of a foreign manufacturer for the **restricted item**, the Indian agent/authorized representative is already enlisted under the Compulsory Enlistment Scheme of Ministry of Finance, Govt. of India, operated through Directorate General of Supplies & Disposals (DGS&D), New Delhi.

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

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

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

18.3 If a tenderer furnishes wrong and/or 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) 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 Deleted

19.3 The earnest money shall be denominated in Indian Rupees or equivalent currencies as per GIT clause 12.2. **The earnest money shall not be accepted in any other form except the following**:

i. Account Payee Demand Draft or
ii. Banker's cheque

19.4 The demand draft or banker's cheque shall be drawn on any commercial bank in India or country of the tenderer, in favour of the "HLL Lifecare Limited" payable at New Delhi.

19.5 Deleted.

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.

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 opening of techno-commercial tenders 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/ email followed by surface mail. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A tenderer, however, may not agree to extend its tender validity without forfeiting its EMD.

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

21. Signing and Sealing of Tender

21.1 The tenderers shall submit their tenders as per the instructions contained in GIT Clause 11.

21.2 Unless otherwise mentioned in the SIT, a tenderer shall submit two copies of its tender marking them as "Original" and "Duplicate". Duplicate tenders may contain all pages including Technical Literature/Catalogues as in Original tenders.

21.3 The original and duplicate copies of the tender shall either be typed or written in indelible ink and the same shall be signed by the tenderer or by a person(s) who has been duly authorized to bind the tenderer to the contract. The letter of authorization shall be by a written power of attorney, which shall also be furnished along with the tender.

21.4 All the copies of the tender shall be duly signed at the appropriate places as indicated in the TE documents and all other pages of the tender including printed literature, if any shall be initialled by the same person(s) signing the tender. The tender shall not contain any erasure or overwriting, except as necessary to correct any error made by the tenderer and, if there is any such correction; the same shall be initialled by the person(s) signing the tender.

21.5 The tenderer is to seal the original and copy of the tender in separate envelopes, duly marking the same as "Original", "Duplicate" and so on and writing the address of the purchaser and the tender reference number on the envelopes. The sentence "NOT TO BE OPENED" before _____ (The tenderer is to put the date & time of tender opening) are to be written on these envelopes. The inner envelopes are then to be put in a bigger outer envelope along with envelope containing EMD, which will also be duly sealed, marked etc. as above. If the outer envelope is not sealed and marked properly as above, the purchaser will not assume any responsibility for its misplacement, premature opening, late opening etc.

21.6 TE document seeks quotation following **two Tender System**, in two parts. First part will be known as **'Techno - Commercial Tender'**, and the second part **'Price Tender'** as specified in clause 11 of GIT. Tenderer shall seal **'Techno - Commercial Tender (along with envelope containing EMD)'** and **'Price Tender'** separately and covers will be suitably super scribed. Both these sealed covers shall be put in a bigger cover and sealed and procedure prescribed in Paras 21.1 to 21.5 followed.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

22.1 Unless otherwise specified, the tenderers are to deposit the tenders in the tender box kept for this purpose at **HLL Lifecare Limited, Procurement and Consultancy Division, B-14A, Sector - 62, Noida -201307, Uttar Pradesh**. In case of bulky tender, which can not be put into tender box, the same shall be submitted by the tenderer by hand to **Head (P&CD)** or his nominee, **HLL Lifecare Limited, Procurement and Consultancy Division, B-14A, Sector -62, Noida - 201307, Uttar Pradesh**. The officer receiving the tender will give the tenderer an official receipt duly signed with date and time.

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

23. Late Tender

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

24. Alteration and Withdrawal of Tender

24.1 The tenderer, after submitting its tender, is permitted to alter / modify its tender so long as such alterations / modifications are received duly signed, sealed and marked like the original tender,

within the deadline for submission of tenders. Alterations / modifications to tenders received after the prescribed deadline will not be considered.

24.2 No tender should be withdrawn after the deadline for submission of tender and before expiry of the tender validity period. If a tenderer withdraws the tender during this period, it will result in forfeiture of the earnest money furnished by the tenderer in its tender.

E. TENDER OPENING

25. Opening of Tenders

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

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

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

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

25.3 **Two-Tender system as mentioned in para 21.6 above will be as follows**. The **Techno-Commercial Tenders** are to be opened in the first instance, at the prescribed time and date as indicated in NIT. These Tenders shall be scrutinized and evaluated by the competent committee/ authority with reference to parameters prescribed in the TE document. During the Techno - Commercial Tender opening, the tender opening official(s) will read the salient features of the tenders like brief description of the goods offered, delivery period, Earnest Money Deposit and any other special features of the tenders, as deemed fit by the tender opening official(s). Thereafter, in the second stage, the Price Tenders of only the Techno-Commercially acceptable offers shall be opened at a latter date which will be notified to such tenderers. The prices, special discount if any of the goods offered etc., as deemed fit by tender opening official(s) will be read out.

F. SCRUTINY AND EVALUATION OF TENDERS

26. Basic Principle

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

27. Preliminary Scrutiny of Tenders

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

27.2 Deleted.

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 and will be summarily ignored;

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

28. Deleted

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.

30. Discrepancy between original and copies of Tender

In case any discrepancy is observed between the text etc. of the original copy and that in the other copies of the same tender set, the text etc. of the original copy shall prevail.

31. Qualification Criteria

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

32. Conversion of tender currencies to Indian Rupees

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

33. Deleted

34. Comparison of Tenders

34.1 Unless mentioned otherwise in Section – III – Special Instructions to Tenderers and Section – VI – List of Requirements, the comparison of the responsive tenders shall be carried out on **Delivery Duty Paid (DDP)** consignee site basis. The quoted turnkey prices and CMC prices will also be added for comparison/ranking purpose for evaluation.

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

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

i) In the case of goods manufactured in India or goods of foreign origin already located in India, sales tax & other similar taxes and excise duty & other similar duties, Customs Duties, Service Tax, Works Contract Tax etc which will be contractually payable (to the tenderer), on the goods if a contract is awarded on the tenderer; and

ii) in the case of goods of foreign origin offered from abroad, customs duty and other similar import duties/taxes, which will be contractually payable (to the tenderer) on the goods if the contract is awarded on the tenderer.

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

35.3 Deleted

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 item in the List of Requirements, then, such determination will be made separately for each item.

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

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

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" without any change in the unit price and other terms & conditions quoted by the tenderer.

40.2 If the quantity has not been increased at the time of the awarding the contract, the purchaser reserves the right to increase by up to twenty five (25) per cent, the quantity of goods and services mentioned in the contract without any change in the unit price and other terms & conditions mentioned in the contract, during the currency of the contract or within one-year from the date of Notification of Award..

41. Notification of Award

41.1 Before expiry of the tender validity period, the purchaser will notify the successful tenderer(s) in writing, by registered / speed post or by fax/ telex/cable (to be confirmed by registered / speed post) that its tender for goods & services, which have been selected by the purchaser, has been accepted, also briefly indicating therein the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful tenderer must furnish to the purchaser the required performance security within twenty-one (21) days from the date of dispatch of this notification, failing which the EMD will be forfeited and the award will be cancelled. Relevant details about the performance security have been provided under GCC Clause 5 under Section IV.

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

42. Issue of Contract

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

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

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

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

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

44. Return of E M D

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

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

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

(a) defines, for the purposes of this provision, the terms set forth below as follows:
   (i) "corrupt practice" means the offering, giving, receiving or soliciting of any thing of value to influence the action of a public official in the procurement process or in contract execution; and
   (ii) "fraudulent practice" means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Purchaser, and includes collusive practice among Tenderers (prior to or after Tender submission) designed to establish Tender prices at artificial non-competitive levels and to deprive the Purchaser of the benefits of free and open competition;

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

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

SECTION - III
SPECIAL INSTRUCTIONS TO TENDERERS
(SIT)

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.

SECTION - IV

GENERAL CONDITIONS OF CONTRACT (GCC)

TABLE OF CLAUSES

GENERAL CONDITIONS OF CONTRACT (GCC)

1. Application

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

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

4. Country of Origin

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

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

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

5. Performance Security

5.1 Within 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**.

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

a) It shall be in any one of the forms namely Account Payee Demand Draft 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.

b) In the case of Bank Guarantee furnished from banks outside India (i.e. foreign Banks), it should be authenticated and countersigned by any nationalised bank in India by way of back-to-back counter guarantee.

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

5.4 In the event of any amendment issued to the contract, the supplier shall, within twenty-one (21) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.

5.5 The supplier shall enter into 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 & lodging will be borne by the purchaser and/or its nominated representative(s).

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

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

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

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

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

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

8.8 Principal/ Foreign supplier shall also have the equipment inspected by recognised/ reputed agency like SGS, Lloyd or equivalent (acceptable to the purchaser) prior to despatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.

9. Terms of Delivery

Goods shall be delivered by the supplier in accordance with the terms of delivery specified in the contract.

10. Transportation of Goods

10.1 Instructions for transportation of imported goods offered from abroad:

The supplier shall not arrange part-shipments and/or transhipment without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under DDP at consignee site; the shipment shall be made by Indian flag vessel or by vessels belonging to the conference lines in which India is a member country through India's forwarding agents/coordinators. In case the forwarding agent/coordinators are unable to provide timely adequate space in Indian flag vessel or by vessels belonging to the conference lines, the supplier shall arrange shipment through any available vessel to adhere to the delivery schedule given in the contract.

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

Goods will be custom cleared by the supplier/ Indian agent and transported to the consignee's site as per the contract terms.

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.

The goods shall be custom cleared by the Supplier/ Indian Agent and transported to the consignee's site as per contract terms. The supplier shall be responsible for safe and timely delivery of ordered goods under his own arrangement.

11. Insurance:

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. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.

ii) in case of supply of the imported goods on DDP Basis, the supplier shall arrange and pay for marine/ air insurance making the consignee as beneficiary. The additional extended Insurance (local transportation and storage) would also be borne by the Supplier from the port of entry to the consignee site for a period including 3 months beyond date of delivery.

12. Spare parts

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

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

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

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

ii) Immediately following such discontinuation, providing the Purchaser/Consignee, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/Consignee.

12.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumable spares for the goods so that the same are supplied to the Purchaser/Consignee promptly on receipt of order from the Purchaser/Consignee.

13. Incidental services

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

i) Installation & commissioning, Supervision and Demonstration of the goods
ii) Providing required jigs and tools for assembly, minor civil works required for the completion of the installation.
iii) Training of Consignee's Doctors, Staff, operators etc. for operating and maintaining the goods
iv) Supplying required number of operation & maintenance manual for the goods

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

The supplier shall send all the relevant despatch documents well in time to the Purchaser/Consignee

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

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

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

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

B) For goods imported from abroad

Within 24 hours of despatch, the supplier shall notify the purchaser, consignee, and others concerned if mentioned in the contract, the complete details of despatch and also supply the

following documents to them by airmail/ registered post / speed post (or as instructed in the contract).

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

15. Warranty

15.1 The supplier warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials or workmanship or from any act or omission of the supplier that may develop under normal use of the supplied goods under the conditions prevailing in India.

15.2 This **warranty shall remain valid for 2 (Two) years** in general, after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the Purchaser/Consignee in terms of the contract, **unless specified otherwise in the SCC**.

a. No conditional warranty like mishandling, manufacturing defects etc. will be acceptable.
b. Warranty as well as Comprehensive Maintenance contract will be inclusive of all accessories and Turnkey work and it will also cover the following items:-
    i. X-ray and CT tubes and high-tension cables.
    ii. Helium replacement
    iii. Any kind of motor
    iv. Plastic & Glass parts
    v. All kinds of sensors including oxygen sensors
    vi. All kinds of coils, probes and transducers including ECG cable, BP transducers, SpO2 Probes, Ultrasound and Color Doppler Transducers/probes, BP Cuffs, Defribrillator internal paddles, chart recorders, ventilator reusable patient circuits, servo humidifier with chamber, electrodes and probes for blood gas analyser, MRI coils.
    vii. All kinds of flat panel sensors and cassettes for Digital Radiography & Computer Radiography systems and patients handling trolleys, etc.
    viii. Printers and imagers including laser and thermal printers with all parts.
    ix. UPS including the replacement of Batteries.
    x. Air-conditioners
c. Replacement and repair will be under taken for the defective goods.
d. Proper marking has to be made for all spares for identification like printing of installation and repair dates.

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

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

15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the **warranty for the rectified/replaced goods shall be extended to a further period as mentioned under clause 15.2** from the date such rectified / replaced goods starts functioning to the satisfaction of the purchaser.

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

15.7 During Warranty period, the supplier is required to visit at each consignee's site at least once in 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 General Points for Technical Specifications, **Section VII (para-4)**, after the completion of warranty period.

15.9 The supplier along with its Indian Agent and the CMC provider shall ensure continued supply of the spare parts for the machines and equipments supplied by them to the purchaser for **10 years** from the date of installation and handing over.

15.10 The Supplier along with its Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipments/machines/goods etc. and shall always give the most competitive price for its machines/equipments supplied to the Purchaser/Consignee.

16. Assignment

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

17. Sub Contracts

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

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

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

18. Modification of contract

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

a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser,
b) Mode of packing,
c) Incidental services to be provided by the supplier

d) Mode of despatch,
e) Place of delivery, and
f) Any other area(s) of the contract, as felt necessary by the purchaser depending on the merits of the case.

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

19. Prices

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

20. Taxes and Duties

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

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

21. Terms and Mode of Payment

21.1 Payment Terms

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

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

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

a) On delivery:

90 % payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents:

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

b) On Acceptance:

Balance 10 % 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.

B) Payment for Imported Goods:

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

a) On delivery:

Ninety (90) % of the net CIP price (CIP price less Indian Agency commission) of the goods shipped shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of documents specified hereunder:

(i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
(ii) Original and four copies of the negotiable clean, on-board Bill of Lading/ Airway bill , marked freight pre paid and four copies of non-negotiable Bill of Lading/Airway bill;
(iii) Four Copies of packing list identifying contents of each package;
(iv) Insurance Certificate as per GCC Clause 11 and documents also to be submitted for payment of LC confirming that dispatch documents has already been sent within 24 hours to all concerned as per the contract;
(v) Manufacturer's/Supplier's warranty certificate;
(vi) Manufacturer's own factory inspection report and
(vii) Certificate of origin by the chamber of commerce of the concerned country;
(viii) Inspection Certificate for the despatched equipments issued by recognized/ reputed agency like SGS, Lloyd or equivalent (acceptable to the purchaser) prior to despatch.
(ix) Consignee Receipt Certificate as per Section XVII in original issued by the authorized representative of the consignee

b) On Acceptance:

Balance payment of 10 % of net CIP price of goods would be made against 'Final Acceptance Certificate' as per Section XVIII to be issued by the consignees through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any.

c) Payment of custom duty amount with Custom Duty Exemption Certificate (CDEC), if applicable, customs clearance and handling charges, loading/ unloading, inland transportation, incidental costs till consignee site & incidental services (including installation & commissioning, supervision, demonstration and training) will be paid in Indian Rupees to the Indian agent at actual not exceeding the quoted rates after 100 % payment to the foreign principal.

d) Payment of Indian Agency Commission:

Indian Agency commission will be paid to the manufacturer's agent in the local currency for an amount in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation. Payment shall be made after 100% payment to the Foreign Principal.

C) Payment of Turnkey, if any:

Turnkey payment will be made to the manufacturer's agent in Indian rupees indicated in the relevant Price Schedule (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation / exchange variation. Payment shall be made to the Indian Agent after 100 % payment to the Foreign Principal.

D) Payment for Annual Comprehensive Maintenance Contract (CMC) 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 ESIC/ 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 the purchaser.

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

21.8 While claiming reimbursement of duties, taxes etc. (like sales tax, excise duty, custom duty) from the Purchaser/Consignee, as and if permitted under the contract, the supplier shall also certify that, in case it gets any refund out of such taxes and duties from the concerned authorities at a later date, it (the supplier) shall refund to the Purchaser/Consignee forthwith.

21.9 In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:

(a) The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
(b) Delay in supplies, if any, has been regularized.
(c) The contract price where it is subject to variation has been finalized.
(d) The supplier furnishes the following undertakings:

"I/We, _____ certify that I/We have not received back the Inspection Note duly receipted by the consignee or any communication from the purchaser or the consignee about non-receipt, shortage or defects in the goods supplied. I/We _____ agree to make good any defect or deficiency that the consignee may report within three months from the date of receipt of this balance payment.

22. Delay in the supplier's performance

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.

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

(i) imposition of liquidated damages,

(ii) forfeiture of its performance security and
(iii) termination of the contract for default.

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

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

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

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

23. Liquidated damages

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

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

24. Termination for default

24.1 The Purchaser/Consignee, without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee), may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to

perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser/Consignee pursuant to GCC sub-clauses 22.3 and 22.4.

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

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

25. Termination for insolvency

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

26. Force Majeure

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

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

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

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

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

27. Termination for convenience

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

27.2 The goods and services that 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. The jurisdiction for the settlement of disputes will be at New Delhi, India.

30.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India. In the case of a dispute or difference arising between the Purchaser/Consignee and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration of an officer, appointed to be the arbitrator by the Director General of ESIC. 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 Lac (Rs. 1,00,000/-)

30.3 Venue of Arbitration: The venue of arbitration shall be 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. General/ Miscellaneous Clauses

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

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

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

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

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

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

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

SECTION – V

SPECIAL CONDITIONS OF CONTRACT (SCC)

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

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

SECTION – VI

LIST OF REQUIREMENTS

Part I:

Sr No	ITEM DESCRIPTION	Baddi	Manesar	Basai	Biwadi	Chandigarh	Noida	Jaipur	Ludhiana	Total Qnty.	EMD Amount
1	Baby Warmer	1	1		1					3	14400
2	Portable Ultrasound B & W	1	1		1					3	42000
3	Vaccum Extractor pump with cups for OBST & Gynae			3						3	18000
4	Tourniquet – Automatic Electronic						2			2	8000
5	Cryosurgical Unit for Gynae Use			1			2			3	30000
6	Impedance Audiometer			1						1	2000
7	Harmonic Scalpel					1				1	30000
8	Color Doppler system					1				1	60000
9	80 KW HIGH FREQUENCY X-RAY MACHINE						1			1	120000
10	Anesthesia Workstation						9			9	360000
11	Portable Ventilator						7			7	70000
12	ICU Ventilator						25			25	650000
13	Warming Blankets(patient warming system)						12			12	60000
14	Pulse Oximeter						31			31	31000
15	Blood Vessel Sealer with advanced bipolar technology						1			1	17000
16	Ultrasonic Cutting and Coagulation Devices for open/laparoscopic surgery						2			2	60000
17	Computerized Radiovisiography Systems(RVG)						1			1	6000
18	Bilirubinometer	1	1		1					3	18000
19	Cryostat system	1	1							2	36000
20	QBC Blood Parasite detection system	1	1		1					3	48000
21	Glass cover slipper model	1	1							2	10000
22	Automatic Tissue Processor						1			1	10000
23	Electrophoresis & Densitometer			1						1	10000
24	Automatic Tissue Embedding Centre						1			1	24000
25	Elisa reader with washer					1	1	1		3	30000
26	Fully Motorized Rotary Microtome						1			1	2400
27	Arterial Blood Gas Analyzer						4			4	400000
28	CPM Unit	1	1		1					3	24000
29	Short Wave Diathermy						1			1	5000
30	LASER Therapy with IRR						1			1	6000
31	Microwave Therapy						1			1	10000
32	Automatic Cell Counter(Haemato Analyser)-3 parts							1		1	30000

33	Automatic Bio-Chemistry Analyzer Random-Access						2	1		3	24000
34	Cardiac monitor with Defibrillator							1		1	10000
35	Dental Chair								1	1	12000
36	Dental Unit with complete accessories							1		1	74000
37	Black & White Ultrasound machine							1		1	40000
38	Baby Basinet	1			1					2	3000
39	D & C Set	3	1		1					5	10000
40	LSCS set	1	1		1					3	12000
41	Tuboplasty Set	1	1		1					3	12000
42	ENT Operating Microscope			1						1	60000
43	ENT Examination Chair			1						1	8000
44	Pure Tone Audiometer			1						1	20000
45	Mastoid Drill			1						1	4000
46	Digital Slit Lamp with Photography			1						1	40000
47	Electrosurgical Unit			5						5	50000
48	Cystoscope			1						1	12000
49	BOD Incubator			1						1	6000
50	Ultrasound Machine			2						2	120000
51	Cystorectoscope			1						1	12000
52	Biosafety Cabinet Level II			2						2	40000
53	Automatic Biochemistry analyser			1	1					2	20000
54	Glycosylated Haemoglobinometer			1						1	12000
55	Camera for Digital x ray & Mammography			1						1	18000
56	Ultrasoud machine 2 D with colour Doppler			2						2	160000
57	Oxytocin Infusion Pump			2						2	2400
58	Cardiotocograph			2						2	16000
59	Anaesthesia Reuscitation kit								1	1	2000
60	Digital ECG Machine(12 Leads)								1	1	7000
61	Opthalmic Ultrasound(A & B)		1						1	2	60000
62	Auto Kerato Refractometer								1	1	20000
63	Phaco Emulsification Machine								1	1	100000
64	Slit Lamp								1	1	16000
65	Referigerator 2000 litres for kits		2							2	8000
66	Referigerator 300 litres		15							15	3600
67	Dangerous Drug cabinet		10							10	40000
68	Binocular Microscope with illumination & photography		3							3	60000

Part II: Required Delivery Schedule:

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

b) **For Imported goods directly from abroad:**
Within **90 days** from date of opening of L/C. The date of delivery will be the date of delivery at consignee site (Tenderers may quote earliest delivery period).

Part III: Scope of Incidental Services:

Installation & Commissioning, Supervision, Demonstration, Trial run and Training etc. as specified in GCC Clause 13. Installation & Commissioning shall be completed within 15 days of handing over the site of installation, complete in all respect by the consignee. The date of handing over of the site has to be intimated by the supplier to the purchaser. The delay on the part of the supplier to install and commission the equipment will attract the provisions as contained in the liquidated damage clause.

Part IV:

Turnkey (if any) as per details in Technical Specification. The tenderer shall also specify the time schedule for completion of Turnkey work.

Part V:

Required Terms of Delivery and Destination.

a) **For Indigenous goods or for imported goods if supplied from India:**
Delivery required at Consignee Site.
Insurance (local transportation and storage) would be borne by the Supplier from warehouse to the consignee site for a period including 3 months beyond date of delivery

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

The foreign tenderers are required to quote their rates on DDP at consignee's site basis giving break up of the price as per the Proforma prescribed in the Price Schedule.

Custom clearance, handling, unloading & loading and transportation to the consignee's site shall be the responsibility of the supplier/ Indian agent.

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.

c) **Destination/Consignee details are given in Section XXI**

Part VI:

Inspection:

a) **For Indigenous goods or for imported goods if supplied from India:**
At consignee site by the respective In-charge of the Hospital or his authorised representative.

b) For Imported goods directly from abroad:
Pre-despatch inspection at manufacturer's premises as per GCC clause 8.8 and inspection after arrival in India at consignee site by the respective In-charge of the Hospital or his authorised representative.

Section – VII
Technical Specifications

Item No. 01

Baby Warmer

Infant warmer to be used in neonatology.
The unit should conform all relevant international, national and local standards.
Specifications
Temperature control:
• Range 30-38° C
• Skin range 25 – 42 °
• Increment 0.1°
• Display Digital
Control Unit (to be supplied with.)
• Automatic heat control type
• Set point mechanism
• Heater Indicator.
Alarms (Audible and Visual)
• High air temperature
• Sensor disconnect
• Power Failure
Alarm in manual mode: every 15 minutes with automatic shutoff
The warmer should includes:
• Self- check features
• Breaks for casters
• Skin sensor
• Supplemental humidity
• Protection against breaks and bursts of radiant and light source
• Spares and accessories
• Service and users manuals
Accessories:
• No. of hand ports 6
• No. of tubing ports 6
• No. of oxygen inlet port 1
• Backup thermostat
Examination Light 50 W Halogen
Radiant heat source Quartz tube 600w
• Phototherapy lights
• Resuscitation equipment packages
• X-Ray cassette holder

Item No. 2

Portable Ultrasound B & W

· Portable ultrasound machine with biopsy attachment.
· Scanning mode: linear and convex
· Display mode: b mode, m mode and b+m
· Monitor screen should be 10" high resolution latest technology
· Display depth:25 cm max
· Magnification: 8 steps
· Facility for image zoom, image reverse, image freeze and image magnification, reduction
· Alphanumeric keyboard for character entry and character display
· Gynecology measurement facility for uterus, cervix, special probe for gynecology to be provided 3.5mhz linear
probe, 3.5mhz convex probe, ultrasound gel, biopsy attachment and black and white video printer with at least 10 no. Rolls, mobile stand.

Item No. 3

VACCUM EXTRACTOR PUMP WITH CUPS FOR OBST & GYANE

• Should have:
1. Noiseless suction unit have fast vacuum built up
2. Vacuum should have maximum -90 k pa/-675 mm Hg, Suction capacity 50ltr/min/1kg/cm2 & bottle capacity 3ltrs
3. Suction system should have piston / cylinder (self lubricating)
4. Should have mechanical overflow protection system .
5. Set of silicon cups 50mm & 60mm-2each
6. Set of bird cups, stainless steel 40mm, 50mm & 60mm-2each
7. Machine can be operated on 220-240 V AC single phase
8. Should be provided with a gauge to display of vacuum generated
9. Should have vacuum release valve

Item No. 4

TOURNIQUET AUTOMATIC ELECTRONIC

1. Electrically operated system with two hoses and battery back upto 45 min.
2. Should have option for bier"s block and bilateral procedures.
3. Seven Sizes 8" to 42" of cylindrical cuffs should meet individual requirements of thin and fat patient for arm and thigh. cuffs should be autoclavable.
4. Small and light weight unit that can be mounted on I.V pole or placed on a table.
5. Audible and visual alarms when pressure variation is detected
6. Unit should perform self-calibration check every time it is turn on.
7. 50 to 475 mm Hg pressure setting
8. 8.6 to 240 minutes time setting.
9.positive locking connectors, leak free inflation cuff sleeves, which help reduce wrinkles pinching and shearing of soft tissues.
10. cuff with lockout features, which should ensure that the cuffs stays inflated

Item No. 5

CRYOSURGIAL UNIT WITH CONSOLE SYSTEM (FOR GYNAE USE)

1. Facility to cutoff gas line without closing cylinder while inter changing probes.
2. Twin Trigger system to frost and defrost.
3. Cleaning the inner hypodermic needle should be much easier
4. System should be operated by CO2 or NO2 gas.
5. Console to house cylinder with temperature indicator
6. Probes Tips: Exo Cervical, Endo Exo Endo cervical and long Endo Exo Cervial, HPV, Flat and Round in different sizes and shapes.
7. System high quality and reliability.

Item No. 6

IMPEDENCE AUDIOMETER

I. Probe frequency 226 hz
II. Pressure range +200 to -400dapa
III. Volume range 0.2 ml to 5.0 ml
IV. Frequencies for testing 500 hz, 1000 hz, 2000 hz, 4000 hz or more
V. Reflexes: inslateral , contra – lateral, intensity 70db to not less than 100db, automatic
VI. Eustachain tube mode pressure range +400 to -400dapa

VII. Lcd screen for display of tympanogram and test results.
VIII. Test programme – reflex test selectable
IX. Probe with built in control lights
X. Should have memory for test results
XI. Should give a print record of test
XII. Should be supplied with following accessories

A) Diagnostic probe

B) Contra phone receiver with head band

C) Ear tip set

D) Mains cable
E) Paper roll for print out
F) Operating manual
XIII. Power supply 230v, 50 /60 hz

Item No. 7

Harmonic Scalpel

Harmonic Scalpel with following items-
Generator 300
Footswitch & Cable
Accessories:
Handpiece
Adaptor for 10mm Shears

5 mm Adaptor
Probes for Laparoscopic Surgery:
Laparoscopic Coagulating Shears 10mm
Laparoscopic Coagulating Shears 5mm-Curved
'ACE' Laparoscopic Coagulating Shears 5mm
Probes for Open Surgery:
Coagulating Shears 10mm

Item No. 8

Color Doppler systam

System should have minimum 15 application preset
le thin abdomen obese abdomen OB/GYN

small parts Thyroid, Vascular and musculoskeltel etc.,
Fully Digital system with Digital Beam Former/256 T/R Channel
Monitior size

15"(inch) flat color monitor should be provided (LCD Monitor Grip)

DISPLAY MODE
B- mode

B/B Mode
B/M Mode-up/down, right/left
B/PW Dopper - up/down Right/left
B/CW Dopper - up/down Right/left
B/CFW Mode
CFM Mode
B and CFM Mode
B/Directional color Angio
Directional color Angio
TISSUE HARMONIC IMAGIN
Tissue Harmonic imagin mode Should be Avilable with Convex Extended field of view imaging
SPECTRAL DOPPLER
PRF range should be 1.5KHz to 17.5KHz
The gate size should be 1mm to 15mm range
COLOR FLOW IMAGING
PRF range should be 1.5KHz to 17.5KHz
FREE CURSOR
Direct Adjustment of image quality parameter & Patient Information

HIPAA COMPLIANT

System should have mulitiful User log on account to Prevent Misuse of System
DYNAMIC RANGE
System Dynamic range should more then 150db
LINE DENSITY
B Mode density adjustment Mode should be Available
Depth of field minimum 24cm should be available
Automatic Gain control should be available

Post processing should be available
Read and write zoom (Spot&pan) should be available

Real time triplex mode should be available in all the probes

PROBE CONNECTOR
3 Active and 3 parking ports should be available
any probes any port interchangable connectivity should be possible
WORK FLOW EDITOR
Different workflow Sequence should be programable and it should be executable by single key

PANNEL KEY
All pannel key should be customised
ALPHA NUMERIC KEY BOARD

The above should be available
HARD DISK
Minimum 120GB hard disk standard
COLOR TINT
Color tint should be available B-mode M-mode and Doppler mode
Auto Trace should be available
MICROSPECIFIC IMAGING CAPABILITY
Superficial imaging capability upto 2cm depth.
COMPOUND IMAGING
Frequency compounding imaging should be available
ADVANCED CFMFLOW IMAGING
System should pick up tiny blood vessel with out blooming (outside of vessel)
with contrast and without contrast mode.
QUIK SCAN
Single key image optimization for 2D imaging should be available
FRAME RATE
It should be minimum 390 frames per secound.
CINE MEMORY
System should have 15000 still image storabe.
10000 cine image storage which include M/D cine storage and review
image storage : induilt hard disc for image storage (minimum 180 GB)
Inbuilt DVD writer should be available for read and write of stored images in CD-R, DVD-R etc.
Inbuilt flash drive with the facility to transfer images
Direct inkjet printing connectivity for printing storage images
Should be provide
PRINTER : color laser printer (with ce or fda mark) (min dpi 1200)
Printer should be interfaced directtly to the system.
DICOM Compatible
MEASUREMENT PACKAGES: complete package for measurement and calculation provision
for distance area volume & cricumference.
Detailed OB package should be provided
Quad pregnancy measurement should be possible.
Minimum 8 caliper should be available
Real package should be available
Uterus/ovary package should be available
Bladder/prostate packages should be available.
Radiology measurement package should be available
Detailed vascular package which include lower limp upper limp and
Carotid thyroid small parts and etc. should be included
% stenosis package should be available

REGULATION
Compliance with all international standards.
PROBES:
Convex provex probe with wide Band of 3-6MHz and 70 degree field of view
and 3 selectable fundamental frequency and 2 selectable THI Frequency
And 2CDI frequency for Radiology and OBGYN application
TV probe with wide band of 5-8.0 MHz and 140 degree field of view
And 3 selectable fundamental frequency and 2 selectable THI frequency
And 2 CDI frequency for Gyn application
Linear probe with wide band of 6-10 MHz Radius of 35 mm length
And 3 selectable fundamental frequency and 2 selectable THI frequency
And 2 CDI frequenc for peripheral vascular application
Convex volume probe with wide band of 3-6 MHz & 70 degree field of view for 3D/4D imaging
Phased array sector probe with band of 2-3.75MHz 90 degree field of view
And 3 selectable fundamental frequency and 2 selectable THI frequency
And 2 CDI frequenc for Adult Cardiology.
Biopsy attachment for the convex and TVS probes.
OTHER TERMS
UPS with 60 minutes backup should be provided; Additional to inbuilt battery backup of at least 30 min
Operation manual - one hard copy and one soft copy should be attached
Spares and consumable parts should be available for 10 years
20 free software upgrade(s) during the period of warranty/AMC

Item No. 9

80KW HIGH FREQUENCY X-RAY MACHINE

X-Ray Generator:

- 800mA, 150 KV, 80 KW High Frequency(50 Khz or more) X-Ray Generators for Radiography & Fluoroscopy.
- KV RANGE (Rad.): 40 to 150KVP
- Mas RANGE (Rad.): 0.4-800mAs

  (maximum mA obtainable at 150,125,100 and 80 KV respectively for both under and

  over couch tubes, with corresponding Timer value is to be quoted by the Firm)

- Fluoro parameters: 40 to 110KV, 3mA; Auto flouro brightness control.

CONTROL:
A very compact, Soft Touch Control Panel having following parameters and functions:

. Digital Display of KV, mA, mAs & time.
. KV, Ma, mAs and time increase and decrease switches.
. Tube and focal spot selection Switch.

. Anatomically Programmed Radiography (APR).
. Auto diagnostic facility of errors for simplified maintenance.
. Automatic X-Ray Tube calibratuion facility

X-Ray Tube:

- Two Nos. Rotating Anode, Dual focus high thermal capacity X-ray tubes, having minimum possible focal spot sizes for both undercouch and overcouch tubes with rpm of greater

  than 8500 and output power not less than 75/65 KW (over couch) and 65/50KW

(under couch) respectively with two Pairs of H.T Cables compatible with the X-Ray Tubes and a Ceiling suspended telescopic tube stand for over couch radiography, permitting 360 Degree rotation of X-ray tube as well as angular movements(various movement ranges

must be mentioned) having Two Nos. multileaf light beam collimator for adjustment of Exposure Area.

- A very compact H.T Tank filled with high dielectric transformer oil to be quoted.

Table:

- Motorized table with Motorized Bucky having Grid ratio 10:1, 100 Lines/inch and Stainless steel cassette tray. The table should move from Vertical position to Trendlenburg (and reverse) with automatic stop at Horizontal, Vertical & Trendlenburg(-20 degree) Position. Provision should be given to manually move the table in case of Power failure.4-way movement of the tabletop should be available, the range of which should be mentioned.
  - Fully Automatic Spot Film Device with motorized cassette transport mechanism capable of doinh all routine Spot Filming with 8" x 10", 10" x 12", 14" x 14" size cassettes. Four spot films on 10x12 size cassette and minimum two spots on 14x14 cassette should be

    possible. SFD Grid with Ratio 10:1,100 lines per inch.

  - Table Accessories like Compression band, hand grip, radiation protection flap, Foot rest,

    Shoulder rest & foot step should be provided. A lateral cassette holder to be quoted

A phase reversal correction system (3-phase sequence monitor) to be quoted. An appropriate

Voltage Stabilizer for operation of the machine, is to be quoted.

IITV System:

- 12" Triple field(6",9"and12") high resolution, high contrast Images Intensifier without the said

  of ceiling suspension, High Resolution compact CCd camera and 1 17", High-Resolution

  Monitor with local control for image brightness and contrast along with a trolly should be

  quoted. System resolution for each component to be mentioned. Machine should be

  DICOM compatible.

Power requirement, Space requirement and installation requirement for the equipment should be mentioned.

Item No. 10

Anaesthesia Workstation

Technical specifications:
Anesthesia system should be high end three gas system with three gas Oxygen, Nitrous Oxide and Medical Air
double scale flowmeter with high and low flow and minimal flow provisions.

Should have an independent Oxygen flow meter for Oxygen delivery and an integrated variable flow suction unit.

System should have at least three drawers and an additional writing surface that can be easily accessed.

Drawers shall have the ability to lock , and shall be easily removed for the purposes of cleaning and sterilisation.

Pipeline, cylinder and Airway pressures should all be displayed on colour coded gauges and be visible at all
times during operation.

Should have provision to attach 2 cylinders 1 each for O2 and N2O.

Should have facility of delivering basal flow of oxygen on switiching on the machine.

System should have a second user accessible port for extraction of Anesthetic gas when using a nonrebreathing
patient circuit. System should also provide the option of returning sample gas to the scavenging
system with a dedicated port.

A single pneumatic/electric on/off switch should activate the gas flow and vaporization.

The unit should have a battery back up facility for the ventilator in the event of power failure and should operate
for a minimum of one hour.

In the event of complete power loss and battery failure it shall still be possible to manually ventilate and deliver
anaesthetic agent.

System ahould have easily accessible common gas outlet in the event of an emergency and for use of alternate
breathing circuits.

Should have unlockable Oxygen flush to deliver oxygen flow of approximately 40l/min.

Should have built in safety features like O2 failure alarm, N2O cutoff, Low O2 pressure etc.,

Should have motion sensitive back lighting for vaporizer dial adjustment. Should also have mandatory illumination of the writing table.

The frame should have integrated power outlets to supply a minimum of four external devices.

Should have locking of the front castors by a single central brake mechanism.

Gas Flow

The unit shall have a mechanical hypoxic guard system to control the ratio of Oxygen and Nitrous oxide to ensure a minimum of 25% of oxygen delivery at all times to avoid delivery of hypoxic mixture.

It shall be possible to deliver Air with only basal flow oxygen independent of the above mentioned hypoxic control.

Gas flow shall be controlled mechanically to avoid errors during power failure and electronic malfunction.

Visual display of the gas flow shall be by physical means independent of electrical power.

Cascade or dual flow tubes should be available for all gases to allow suitable resolution and accurate control at
low total fresh gas flows.

Flow meters should have backlight and antiglare illumination.

The unit should have an independent measurement and display of fresh gas flow offering safety for low and
minimal flow anaesthesia.

A bag arm with height and positional adjustment shall be available as an option.

Vaporizers

The unit should accommodate two vaporizers for anesthetic agent delivery to allow easy selection of agent to
be used. A third vaporiser storage area shall be available as an option.

Vaporiser should be selectatec type, tool free installation and vaporiser of user choice can be mounted at will
with interlocking facility to allow operation of only one vaporiser at one time.

Vaporizers supplied with the unit shall be routine maintenance free for the life of the product.

Should provide Isoflurane and Sevoflurane key filled vaporisers.

Breathing System

All parts of the breathing system that are in contact with patient gas should be latex free and autoclavable.

Should not require tools when dismantled for cleaning and sterilization.
Should accept large and small volume absorber canisters.
The ventilator bellows shall be clearly visible and should ascend on expiration to provide a quick visual indicator
for system leaks.
Breathing system should have the option of C02 Absorber bypass control that will allow the absorber canisters
to be removed without introducing system leaks.
Should have bag / vent selecting valve integrated onto the absorber and should automatically turn on the ventilator when positioned to vent mode.
Ventilatior
Ventilator should be pneumatically driven, electronically controlled and should be ascending bellows type.
Ventilator should automatically change drive gas should there be a gas depletion.
Ventilator shall have a color display with touch screen user interface.
Ventilator should have the following ventilation abilities, volume control, decelerating flow pressure control, SIMV with pressure support and pressure support.
Ventilator should be capable of ventilating diverse range of patient groups from neonates to adult patients with
restictive airways with tidal volume range between 20 ml to 1500 ml with single bellows system.
Assisted modes of breathing should be flow triggered.
Ventilator should have an active proportional exhalation valve to prevent the potential of over delivery during
pressure modes of ventilation.
Ventilator should have a leak and compliance test that can be done independently of the full system check.
On switching on, the ventilator system should be able to and shall give the user a choice of doing a unit test or bypassing in the case of an emergency.
Ventilator shall compensate for fresh gas flow and compliance of the entire circuit dynamically.
Measurement at the patient end of the circuit (sensor at the patient end) should be provided to compensate for
small leakages and compressible volume variability that occur during ventilation.
User should also have the option of setting a pre set compliance correction where similar circuits are used constantly.
Should provide constant fresh gas flow into the breathing circuit during the inspiratory phase as mandatory.
Ventilator should have the ability to set and store a hospital default as well as individual user preferences for
easy selection of ventilation parameters and include screen layout, alarm preferences and ventilation settings.
User should be able to set their own password.
Apnea alarms must be user adjustable to allow for all operating conditions and phases during Anesthesia.
Ventilator should have the ability to display and store Patient Spirometery loops including Flow-Volume and
Pressure Volume curves.
Ventilator should also display waveforms for flow and airway pressure.
Ventilator should display measured fresh gas independent of the flow meters.
Ventilator should display a dynamic compliance measurement.
Integrated Monitoring system:
Anesthesia Monitoring system should be of modular type and capable of monitoring adult, pediatric and neonatal patients. Should be from the same manufacturer as of the anesthesia system.
Monitor should have minimum 19” independent flat panel display with multi color touch screen user interface
to ensure all parameters are visible simultaneously.
Module rack / housing should be independent and should be able to be placed near to the patient.
Should be capable of 8 traces display. Should have facility to monitor: ECG, NIBP, SpO2, Respiration, Invasive pressures (3), temperatures (2), Capnography and Bispectral index. Should have Cardiac output port enabled.

Should have automatic identification and measurement of anesthetic agents, EtCo2, O2 and N2O and MAC value.
Should have depth of anesthesia monitoring using Bispectral index.
Cardiac output monitoring facility with all accessories.
ECG should have capability for 3, 5 and / or 10 lead monitoring and should have built in arrhythmia monitoring on all 12 leads
Inbuilt ST segment analysis and arrhythmia detection for all the leads should be available.
Should have haemodynamic, oxygenation and drug dose calculations.
EtCO2 should have both mainstream and side stream in one module.
Respiration should be available with Cardio Vascular Artifact filter.
OCRG(oxy cardio respiro gram) should be available for monitoring neonates.
Alarm parameter should flash red in the presence of high priority alarms (e.g. ventricular fibrillation and asystole) and flash yellow in the presence of medium or low priority alarms (e.g. noisy signal, etc.)
24 hours trend data should be displayed.
All monitors including central station should have similar user interface for usage among all clinicians.
Modules should be compatible with transport monitors.
Monitor shall provide capability to remote view of real time waveforms via the internet. Should be able to upgrade to softwares for electronic flow sheet and full dislcosure of all waveforms.
On-screen keyboard for entering this data should have USB ports to connect mouse, key board, bar code scanner.
Alarm limit status (ON/OFF) must be indicated on-screen for each parameter and actual parameter alarm settings must be displayed on-screen when alarms are on.
Position of the displayed waveforms and color of the waveform must be user configurable.
Monitor shall permit the optional ability to receive and display information from other patient devices such as
ventilators, infusion pumps and other standalone devices.
All modules should be compatible with all monitors quoted.
Should be supplied with necessary accessories for adult , pediatric and neonatal accessories.
Should be US FDA Approved
Should be compatible with HIS and Should be HL7 compliant
Monitor should have capability to accommodate remote viewing of real time waveforms through internet.
Accessories and spares
ECG / respiration: 5 lead ECG cable and lead wire set and 10 lead ECG cable and lead wire set per monitor
NIBP: Adult: 2 sizes and Pediatric 2 sizes and neonatal, 1 size per monitor
SPo2 Sensor: Adult sensor with cable, pediatric sensor with cable and neonatal sensor with cable per monitor
IBP: Include 10 nos of disposable pressure transducer with bracket and interface cable per monitor
Temperature: Skin and nasopharyngeal probes per monitor
BIS: 25 nos of disposable sensors per monitor
Environmental factors:
Safe disposal system : AGSS – Anesthetic Gas Scavenging System, should be in place

Item No. 11

Portable Ventilator

The Ventilator should be portable.
The ventilator should be capable of ventilating from pediatric patients to adults.
The modes should include Assist Control, SIMV in Volume control and Pressure control modes.
It should also have CPAP and PSV available.
The tidal volume should range from 50ml to 2000ml.

Peak Inspiratory Pressure - 5 to 55 mbar
Pressure Support – 5 to 55 mbar
Insp. Time – 0.3 to 2.4 secs
Breath Rate – 0-60 BPM
Insp. Sensitivity – 1 to 5
Exp. Sensitivity – 5 – 95%
Flow Pattern should be Square, descending and Sinusoidal
PEEP should be 0.5mbar to 20mbar
Rise Time should be from 1 to 4 with increments of 1.
I:E ratio should be 1:4 to 1:1
I / T should be 20% to 50%
The Apnea time should be 1- 60 secs and backup rate of 5 to 40 BPM.
Vt SIGH should be in single to double multiplier of Vt.
The ventilator should have bright display with backlight
The ventilator should have Waveform display of Pressure Vs. Time and Flow Vs. Time.
Ventilator should be able to be used invasively through an artificial airway, or noninvasively through a mask or other noninvasive interface.
The ventilator should have choice to select the type of breathing circuit (Paed. OR Adult) for Circuit volume compensation.
The ventilator should have internal battery back up for at least 11 hours with Real-time battery life indicator
The ventilator noise level should be < 30 dBA at 1 m.
The ventilator should have Automatic atmospheric adjustment

The ventilator should have recording facility of patient data trends through USB for 3 months to 1 year time with following parameters;
Monitoring: pressure, inspired flow, exhaled flow and leak measurement
Trends: leaks, VTI, VTE, Rate, I/T, M. Vol, P MAX and PEEP measurements

Item No. 12

ICU Ventilator

Microprocessor controlled Ventilator for Neonates, Paediatrics and Adults patient with invasive & non-Invasive ventilation in both pressure and volume based modes.
Should be expandable and up gradable.
Should have the both pressure & flow trigger sensitivity.
Minimum of following Modes of ventilation should be present: -
• CAMV – controlled Assisted mechanical ventilation
• SIMV – with pressure and volume support mode (VS)
• Pressure controlled ventilation
• Tube compensation
• PRVC

• BIPAP/Bi-level or equivalent with pressure support
• CPAP
• PAV+ (Proportional Assist Ventilation) or equivalent mode
Should have following Parameters: -
Tidal volume: 5 to 2000 ml
• Frequency: 2 to 150 b/m
• Pressure support: 0 to 70 cmH2O
• Inspiratory time 0.2 – 8 sec.
• Inspiratory flow: 3-150 L/min.
• Inspiratory pressure : 5-90 cmH2O

• Exhalation Sensitivity: 1-80% of Spont. Peak Flow
• Oxygen cone. :- 21 to 100%
• PEEP / CPAP : 0-45cmH2O
Following parameters should be monitored:-
a) Volume: Exp. Tidal volume & M.V
b) Tinsp.
c) Frequency
d) FiO2
e) Pressure: peak, plateau, peep, mean
f) Resistance and compliance
g) Ti/ Total & RSBI, P0.1 and Vital capacity
Should have user programmable Apnea back-up & should have detection of severe patient occlusion to protect patient against excessive airway pressure, terminate normal ventilation and allow patient to exhale through inspiratory limb by opening safety valve.
Should have at least 10" size integrated colored touch screen.
Should display: -
a) Wave forms: P x t, f x t, v x t
b) Loops: p x v, f x v
c) Should have different color for different breath
Alarms: - Audio visual Alarms for low air pressure, low oxygen pressure, low and high inspiratory pressure, low and high rate, leak rate, disconnection, apnea alarm time 15-60 sec, low battery etc.
Should have reusable auto cleavable heated bacterial filter exhalation isolation system
Inbuilt Battery back up for ventilator for at least 30 min.
Essential Accessories:-
A) Reusable heated bacterial filter/cassette exhalation isolation system- 10no.
B) Humidifier- Heated temperature controlled, preferably temperature monitored with alarms- 1 no.
C) Reusable humidifier chamber- 01no
D) Heater wires – 01no.
E) Heater wire adapter- 01no.
F) Flow sensor if applicable with flow sensor cables- 10no.
G) Reusable Breathing Circuits adult = 05no.
H) Reusable breathing Circuits pediatrics = 05no.
I) Reusable breathing circuits neonatal = 01no.
J) Nebulizer-
Ultrasonic nebulizer with pore size up to 2 micro meters to deliver medicament. It should not affect Ventilator parameter delivered to pt. When in use & it has both timed and Continuous nebulisation mode.
K) Compressor
a. Should be of same make as of ventilator.
b. Should be oil free, medical grade and silent (less then 60db at 1/meter) and flow upto 160LPM.
c. Should have high temperature and low-pressure alarms.
d. Compatible to be connected to compressed air from hospital central gas supply.
L) Trolley
The equipment should be US FDA Approved.

Item No. 13

Warming Blankets(patient warming system)

1. The convective air patient warming system should have a basic warming unit and disposable blankets.
2. The convective air patient warming system should have fast warming reaching 38℃ with in 30 sec.
3. The warming system should have temperature range settings of 30℃ to 34℃, 36℃

to 40℃ and 42℃ to 46C°.
4. The warming system should have an automatic step down facility. After 45 min temperature will come down from high mode to medium mode.
5. Should be CE / FDA certified
6. Should have Hepa filter of 0.05 micron filtration efficacy.
7. Multiple mounting options: Cart, Bedrail, IV Pole and floor.
8. Machine should come with the stainless steel movable trolley for mobile purpose.
9. Machine should have auto power cut facility to control the set pressure and sensors to prevention patient burn.
Machine should have hour meter to understand total run time.
Blankets
1. The blankets for convective air patient warming system should be compatible with the basic warming unit.
2. The blankets should be lighter and resistance to puncture and fluids.
3. The Blankets should latex free, made of 2 ply material – non -woven outer layer and polyethylene inner layer. They should be precision dye cut to have an even airflow and smooth surface.
The Blankets should be disposable available in sizes – Adult upper body, Adult lower body, Adult Full Body, Cardiac Blanket, Pediatric blanket

Item No.14

Pulse Oximeter

· It monitors from -neonate to adult.
. To track oxygen saturation even during low perfusion condition.
· Set seconds alarm management technology avoids unnecessary alarm & distraction during monitoring of severe motion patients.
. Display for better monitoring.
· Dual colour LED for differentiating normal mode & alarm mode.
· Internal battery provides minimum of 8 hours backup.
· 10 segment LED bar graph for pulse strength monitoring.
· Facility for computer interface & printer connectivity
· Individual alarm settings for Sao2 & pulse rate
· Compatible with the complete range of disposable & reusable sensors.
· Built-in battery charger with charger indication.

Item No 15

BLOOD VESSEL SEALER WITH ADVANCED BIPOLAR TECHNOLOGY

Vessel sealing upto 7mm vessels withstanding 3 times systolic blood pressure.
Vessel sealing instrument for open surgery with separate cable.
Vessel sealing instrument for laparoscopy with cutting facility.
Audio-visual alarm to indicate end point of sealing.
All accessories should be from same manufacturer to ensure compatibility.
All instruments should be autoclavable or single use.
Complete instruction and service manual shall be supplied.
Generator should be microprocessor controlled bipolar electrosurgical radiofrequency generator with a quasi –sinusoidal

forced impedance output.

The RF generator should confirm to all safety standards including IEC.

Generator should be equipped with smart technology to measure the tissue impedance and control the power delivery .

Should be FDA and CE approved .

Should simultaneously seal and transect vessels up to and including 7mm, large tissue pedicles and vascular bundles.

Should have temperature controlled energy delivery which should maintain tissue temperature approximately at 100 degree Celsius.

Should not have minimal lateral thermal spread more than 1mm .

Hand devices should have a unique electrode configuration to minimize the lateral thermal spread.

Hand devices should have a technology to deliver high compression uniformly across seal area.

Should have a tissue /vessel seal strength to withstand bursting pressure of 5 times the systrolic pressure.

Hand devices should have versatile jaw design which can seal, cut, grap &dissect tissue.

Should have hand probes of 5mm shaft diameter for both open & laparoscopic procedures with round tip (5mm tip width) in the
following shaft lengths (14 cm,25 cm,&35) and should be both hand & foot activated .both open and lap devices should be able to simultaneously cut and coagulate tissues.

Should have hand probes of 5mm shaft diameter for both open & laparoscopie procedures with curved tip (3mm tip width) in
the following shaft lengths (14 cm, 25cm, & 35 cm) for fine dissection should be both hand & foot activated.

The power output for vessel sealing hould be less than 70w in order to prevent less than thermal damage.

Item No 16

Ultrasonic Cutting and Coagulation Device for open/laparoscopic surgery

It is having an ultrasonic generator with a frequency of 55.5 KHz capable of incising tissue and providing hemostasis with
minimal thermal injury .

Its blade has vibrating frequency of 555500 times per second. it denatures tissue protein to form a sticky coagulam.

It is capable of sealing the blood vessels up to 5mm from inside out.

It does not raise the local temperature above 100 degreee Celsius to prevent the lateral thermal damage .

It has the function of cavitation effect for resection of soild organs.

The vibration is gentle and does not shake the hands of operating surgeon. Also it produces minimum charring desiccation of tissue.

It does not produce any smoke and gives clear visualization of surgical field during laparoscopic surgery.

The equipment has two operating modes ie Min and Max for cutting and coagulation

The equipment is lightweight and can be mounted on suitable trolley.

It has dual switch receptacles to connect two foot switches to allow simultaneous use by two surgeons.

Harmonic Scalpel Unit comprises of the following item :

HARDWARE :

- Generator -1 no
- Foot switch & cable - 1 no

. Cart-1 no

ACCESSORIES:

- Harmonic Hand piece-1 no

OPEN SURGERY INSTRUMENT:

8.0 mm shaft diameter 18 cm long coagulating shears having cylindrical blade of 18 mm length-6 nos.

ENDOSCOPIC SURGERY INSTRUMENTS

5 mm laparoscopie hand activated coagulating with clicker , curved mode 36 cm long ergonomic grip ----- 6 Nos (six number)
H.S. curved shear 17cm-1pc
H.S. curved shear 9cm-1pc
blue hand piece-1no

Item No 17

Computerized Radiovisiography Systems(RVG)

Sensor: - CCD or Advanced CMOS, must have sufficient Fiber optics to protect the life of the sensing element.
Dimension Of Active area: - minimum 29 X 20 mm
Theoretical Resolution: - More than 26 lines per mm
Actual (true) resolution: - More than 13 lines per mm
Gray shades that can be resolved: - 4000 minimum
Number of pixels in the sensor: - 1.8 mega pixels minimum
The product must be totally mobile and can be connected to any PC through USB.
The Sensor must be having smooth curves for patient comfort.
The length of sensor wire must be minimum 2 meters.
The Sensor must be provided with software, which has facility to enhance, zoom, colorize, invert, annotate, rotate etc. the image. Should be DICOM Compatible. The software must have licenses for at least 3 users.
Should be supplied with Medical grade printer.
Should be supplied with sensor holder
Compatible PC should be supplied.
Should be certified as a CL II Medecal device, guaranteeing maximum securty for the patient
Should have ' autotrigger function to eliminate the need to manually activate the sensor before the exposure.

Item No 18

Bilirubinometer

Microprocessor Controlled

MAIN CHARACTERISTICS: -
-Auto zero Function
-Handles hemolysis and turbidity easily
-Easy set of the sample tube
-Alarm lamp informs user of abnormalities
-Flexible power source
-Easy lamp replacement

TECHNICAL SPECIFICATION: -
-Filters :461nm & 551nm
-Measurement Range: 0-30 mg/dl (Total Bilirubin)
-Correcting hemolysis: 0-250 mg/dl HbCV
-Measuring accuracy :+-5%
-Sample Volume
-Alarm Display : 3-1/2, 7-segment red LED

Forward.
1 - 50 mm or better
120 DEG or more
4.9 mm or less
4.9 mm or more
UP-Minimum 180 Deg
Down-Minimum 130 Deg
2.0 mm or more

-Sample container : Hematicrit capillary tube 550- 600mm
750- 920mm
-Light Source : 6V, 1.5A tungsten lamp
-Photocell : Silicon photocell
-Power supply 90-240 VAC 50/60Hz, 35w
-Dimensions approx : 280mm (w) x230mm (D) x120mm(H)
-Weight approx : Net 2.7kg (main body)

Item No 19

Cryostat system

Section machine selection 1 – 60 um in
1 um steps from 1 to 10 um
2 um steps from 10 to 20 um
3 um steps from 20 to 60 um
Maximum specimen size is 55mmØ
Total horizontal specimen feed 25 mm
Total vertical specimen store 50 mm
Specimen orientation with o positioning 8º x/y part of standard delivery.
Trimming – via motorized coarse feed.
Motorised coarse feed – 2 speed setting rapid: 0.65 mm/sec. Slow" 0.3 mm/sec
Refrigerating capacity:
Temperature selection range - 0º to – 30º C
Time required to refrigerate to -30º C approximate 3 hours at 22º C ambient temperature.
Chamber defrosting automatic hot gas defrosting cucle duration 8 min starting time freely programmable.
Manual defrost cycle on demanding temperature of quick freeze shelf max -45º at a cryo chamber temperature of -30º C
Quick freeze shelf defrosting – manual defrost in demand.
System should be FDA and CE marked.

Item No 20

QBC Blood parasite detection system

Should supply complete system with UV Micro Adaptor, Illumination, Fibre Optic cable, Paraviewer, spare lamp, Immersion Oil, Centrifuge malaria atlas.
Paralens assembly consisting of Focusing lens, 470 nm – 490 nm wavelength, Excitation filter, dichroic beam splitter,
1.0 N.A, 60x oil immersion lens, 520 nm, wavelength barrier filter and standard royal microscopic threading.
Illuminator should have LED light source consisting of Rheostat controlled illumination.
Fibre Optic cable transmits white light illuminator.
Paraviewer tube holder for direct examination of capillary tube under the microscope.
Immersion oil (7cc)
ND = 1.5150 ±0.0002
ND temp coeff = -0.00031 /+deg C
Ne = 1.5180 ± 0.0002
Abbe Ve = 42.6
Nf-Nc = 0.0120
cSt = 1250 ± 10%

Flouresecence = low
To be supplied with monocular microscope
System should have CE, GS, and UL certifications.
Enclose Gold standard products with supporting documents like traceability certificate and QC certificates.
Should provide FDA / CE certifications.

Item No 21

Glass cover slipper model

Designed for histology sections and cytopathology smears.
Minimized operator interaction.
High throughput glass on glass cover slipping up to 400 slides / hour
Auto slip magazine for automatic adaptation to different coverslip sizes.
Avoids glass dust blocking the suction cup vacuum air lines suction cup filter system.
Operator defined mouonting media settings.
Acceptance of a large variety of slide rack types.
Wet or dry cover slipping.
Wet park position for nozzle module.
Broken cover slip sensor with automatic disposal function.
Software settings for main functions.
Easy access to all key components.
Quick setup and installation.
Option to connect to multi stainer; fully integrated workstation.
System should have CE, GS, and UL certifications.

Item No 22

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 process tissues prior to microtomy to produce microscopic slides that are viewed under the microscope by pathologists.
2 Operational Requirements
2.1 Latest Model Fully automatic system carousel type with minimum 12 stations (10 reagents and 2 wax baths).
2.2 Computer controlled flow through tissue processor to automatically perform fixation, dehydration, clearing, 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 Metal / Polypropelene tissue baskets each with a capacity of160-200 cassettes to be met by either single or double baskets.
3.2 The tissue baskets should be such that they have a firm bottom and do not get stuck to the sides of the reagent stations.
3.3 Reagent stations – Number of vessels: 10 (1.8- 2 litres each)

3.4 Paraffin stations– Number: 2 (1.8- 2 litres each)
– Temperature setting range: 45 – 70℃ with tempera ture cut out facility (Temperature should be mentioned)
3.5 Computerized freely selectable and freely programmable
Facility should be available.
Easy editing and changing of programmes should be possible even during a processing run
Infiltration time for each station should be separately programmable.
Program start delay should be selectable without time limit.
3.6 In-built Vacuum function with fume control device.
3.7 Safety device for protection for drying of specimen in case of power failure
The buckets should go back inside the respective solution when power fails and not hang in mid air.
3.8 LCD display panel with ergonomic control, fully protected control with full protection key board, audible alarm warning/ error message.
3.9 Machine should be able to cater to short time / quick process
3.10 Interrupting an automatic processing for reloading or removing cassettes before the end of a run should be possible
3.11 Should be an open system capable of using standard cassettes from open markets.
4 System Configuration Accessories, spares and consumables
4.1 Quote pricing to up gradation to another basket with similar cassettes capacity.
4.2 Basket Rotor – 01 Nos.
4.3 Metal tissue basket- 04 Nos.
4.4 Aluminium reagent vessels of 1.8-2 litre capacity each-10 nos.
4.5 Beaker covers- 11 Nos.
4.6 Wax baths complete with thermostat – 02 nos.
5 Environmental factors
5.1 The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%
5.2 The unit shall be capable of operating continuously in ambient temperature of 10 -40deg C and relative humidity of 15-90%
6 Power Supply
6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2 Suitable voltage corrector/stabilizer
6.3 Reset table over current breaker shall be fitted for protection
6.4 Suitable UPS with maintenance free batteries for minimum two-hour back-up should be supplied with the system.
7 Standards and Safety
7.1 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.
7.2 Should be compliant with IEC 61010-1: covering safety requirements for

electrical equipment for measurement control and laboratory use.
7.3 Should be FDA or CE or ISI approved product
7.4 Comprehensive training for lab staff and support services till familiarity with the system.
8 Documentation
8.1
Certificate of calibration and inspection from factory.
8.2 Compliance Report to be submitted in a tabulated and point wise manner clearly mentioning the page/Para number of original catalogue.
8.3
User/Technical/Maintenance manuals to be supplied
8.4
Log book with instruction for daily , weekly, monthly and quarterly maintenancechecklist.
The job description of the hospital technician and company service engineer should be clearly spelt out
8.5
List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
8.6
List of important spare parts and accessories with their part number and costing.

Item No 23
ELECTROPHORESIS AND DENSITOMETER SYSTEM (AUTOMATIC)

The electrophoresis equipment should be able to perform electrophoresis on serum, urine or other body fluid for protein, lipoproteins hemoglobin's.
I. Electrophoresis system
Power supply
To provide constant voltage & current mode.
Input voltage 220 volts or 110 vac 50/60 hz
Output voltage 20-300 vdc continuously adjustable in each range.
Current 0-100 ma at settage current 1.5 to100 ma
Timer 0-60 minutes.
Safety featured: overload /short circuit protection floating output.
Horizontal tank: can accommodate 3 bridges for minimum 3 strips of 5×8cm size as well as can accept single suitable bridge adopter to hold larger strip. The tank unit should have buffer capacity of 250ml and built in safely micro-switches which are moved when the cover is taken off.
Ups: appropriate standard make ups with minimum 2 hrs back up battery.
The above system should be supplied along with necessary accessories like samples holder, applicators,bridge adaptors ,buffers, reagent start up kit.
II. Densitometer system
Light source: halogen lamp 6v-12v, 1watt - 40 watt.
Operating wavelength: at least 530nm, 570nm and white light
Photocell type: sillicium phtotcell 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-directiona

Item No 24

Automatic Tissue Embedding Centre

Should be a Fully Programmable, automatic On/ Off control, unit comprising a maximum of Two consoles, one heated paraffin dispensing unit combined with thermal areas for storage and another Cryo console with cooling plate
I- Paraffin Dispensing Unit
1. Capacity of paraffin tank: min 4 litres
2. Capacity of Thermal Chambers for storage of molds: min 1.8 litres
3. Temp. range of Paraffin tank: 50- 70 deg C
4. Temp. range of Thermal Chamber: 50- 70 deg C in steps of 1 Deg C
5. Temp. range of Hot plates & forceps wells: 50-70 deg C
6. Connection for Electrically heated forceps
7. Six heated wells for normal forceps, 3 on either side of the wax dispensing line.
8. Precisely metered and adjustable gravity feed paraffin dispenser to deliver the right amount of paraffin.
9. Finger touch plate and foot switch for control of paraffin flow.
10.Large warm working surface on either side for min 10 cassettes on each side.
11.Control panel must have 2 line LCD display and easy navigation through the menu with help of simple touch key buttons.
12.Should have a Magnifying lens adjustable in any position, large cold spot & illumination for specimen orientation.
II- Cold Console
1. Capacity of freezing up to 60 blocks at a time.
2. Temp. range of cold plate: 0- 10deg C, adjustable in steps of 1 deg C.
3. Compressor to be extra quite to reduce noise fatigue.
4. Cryo Console to be controlled via the Dispensing Unit.
The system should work on 220-240 V, 50 Hz. Should use CFC free gas and must be original manufacturer and must have ISO 9000/01/02 certification.
Accessories:
1. Electrical forceps 2 nos.
2. Magnifying Glass: 1 no.
3. Foot Switch- 1 no.
4. Metallic Base molds -100 nos.
5. Plastic Embedding Rings- 1,000 pcs
6. Normal Forceps, Toothed – 6 pcs

Item No 25

ELISA READER with washer

Description of Function
1.1 ELISA Reader is required to Read the Colour Density known as OD(Optical Density) in ELISA (Enzyme Linked Immuno-Sorbent Assay.)Plates.
2 Operational Requirements
2.1 Only ELISA Reader is required.
3 Technical Specifications
3.1 OPTICAL SYSTEM
Digital light control
8 measurement channels including 1 reference.
Single and dual wavelength measurement with facility for kinetic measurement
8 s maximum measurement time for single and dual wavelength and 5 s(+/_1Sec.) for kinetic
Measurement Range 400-700nm
Indication Range 0-2.999 abs
Accuracy Plus/Minus 2% or Plus/Minus 0.005 abs
Resolution 0.001 abs
Inbuilt Filters: Narrow band interference
Should have the following filters – 405, 450, 492(+/_2nm), 540, 620 (+/-10nm) and 690 nm
Should measure end point, curves and kinetic.
3.2 SOFTWARE:
Storage of immediately preceding measurement At least 15 user programmable tests permanently stored
Time programmable between each measurement. Agitation programmable before each reading
Bidirectional printer interface.
Data memory not less than 300 plates/curves
Built in Windows based software programming software.
3.3 MEASUREMENT MODES
Plate shaking mode for sample mixing selectable speed and time)
Flexible blank mode setting
Matrix Modes: Matrix -/x/t, Matrix-/0-0 (Range),
Matrix-/f/(Floating cut off)
Difference Mode: Absorbance of each well in even numbered subtracted from those of odd numbered columns
Curve fit Modes: LIN/LIN.LIN/LOG.LOG/LOG or auto curve transformation with ability to add the standard curve; 8 to 12 way string orientation or kinetic modes
Table of optical densities, Delta DD, Graphic, Reaction rate/V-Max
3.4 Adjustable for different micro plate geometrics
3.5 Halogen Lamp 20 - 40 W.
3.6 16 digit alphanumeric fluorescent display
3.7 Membrane keyboard.
3 .7 Technical Specifications for washer
3.1 Auto strip washer for 96 well plates / strips
3.2 1 x 8 strips/ 1x12 strips.
3.3 Dispensable wash volume 50 - 300 µl.
3.3a Residual wash Volume -<0.5µl
3.4 Aerosol Shield for user safety.
3.5 In built shaking facility
4 System Configuration Accessories, spares and consumables

8-12 channel manifold, all tubing sets, wash, rinse and waste bottles
Maintenance kit to be provided.
4 System Configuration Accessories, spares and consumables
4.1 System as specified-
4.2 Halogen Lamps : 2
4.3 Printer inbuilt or external to be supplied along with 10 Rolls/Z Fold
4.4 Dust cover.
5 Environmental factors
5.1 The unit shall be capable of being stored continuously in ambient temperature of 0 -50deg C and relative humidity of 15-90%
5.2 The unit shall be capable of operating continuously in ambient temperature of 10 - 40deg C and relative humidity of 15-90%
6 Power Supply
6.1 Power input to be 220-240VAC, 50Hz fitted with Indian plug
6.2 Resettable over current breaker shall be fitted for protection
6.3 Suitable voltage corrector/stabilizer
6.4 Suitable UPS with maintenance free batteries for minimum one-hour back-up should be supplied with the system.
7 Standards and Safety
7.1 Comprehensive training for lab staff and support services till familiarity with the system.
7.2 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.
7.3 Should be FDA or CE or ISI approved product
8 Documentation
8.1 User/Technical/Maintenance manuals to be supplied
8.2 Certificate of calibration and inspection from factory.
8.3 List of Equipments available for providing calibration and routine maintenance support as per manufacturer documentation in service / technical manual.
8.4 List of important spare parts and accessories with their part number and costing.
8.5 Log book with instruction for daily, weekly, monthly and quarterly maintenance checklist.
The job description of the hospital technician and company service engineer should be clearly spelt out

Item No 26

Fully Motorized Rotary Microtome

Compact ergonomic design

user safety should be incorporated

Automatic variable specimen retraction depending on sectioning speed

Two motorized forward specimen coarse feed speeds

Two separate prog for trimming and sectioning

Communication display in instrument

Section thickness setting 0.5 (upto 1 µm) to 100µm at 1µm incriments

Smooth running hand wheel with incorporated quick lock mechanism

enclosed micrometer mechanism

Precision specimen orientation with zero point reference.

Wide range of accessories for special application.

spare/accessories -
casset holder, knife holder
base std. knife holder object
orientation unit, Section waste tray
Microtome Knife Disposable blade
holder for high +low profile blade
std type block holding stage disposale blades
Section Modes - 3 (three) One Manual two motorized (continous+single)
Max. specimen size (1.9x2.3x1.55 inches)
Nominal Supply voltages -100-240V.

Item No 27

Arterial Blood gas Analyzer

The blood gas analyzer should have the following essential components. The quote optional accessories should be submitted.
Essential components
1. Electrodes
The system should be able to measure accurately the following parameter.
: pH
: pCO2
: pO2
: Heamatocrit and Hemoglobin
: Electrolytes, Sodium, Potassium: Lactate
: Calcium and Chloride
: Magnesium
The equipment should possess electrodes with long life of at least 5 years (Warranty on electrode to be provided for 5 Years)
Facility for regular quality assessment & maintenance of the instrument should be provided by the company minimum once in a month, or more as required by the user.
2. Analyzer controller with Software
The instrument should provide the following calculated parameters.
• Bicarbonate (HCO3)
• Standard HCO3
• Base Excess of Blood (BE)
• Base excess of extra cellular fluid (BE-Ecf)
• Oxygen content (O2Ct)
• Oxygen saturation (SO2%)
• Total carbon dioxide (TCO2)
• Alveolar to Arterial oxygen tension gradient (AaDO2)
• Arterial Alveoilar oxygen tension ratio (a/A)
• Oxygen carriyng capacity (O2 Cap)
• PO2/Flo2 Ratio
• P 5O
• Respiratory index
Anion Gap
• Plasma osmolatity
• pH/pCO2/pO2 Corrected to patient temperature
Through put – 40 testes per hour.
All results should be available with in 1.5 minutes max.
Reagents remaining status should be available on the main screen for easy monitoring and replacement.
The instrument should have facilities like monitor screen, external keyboard, mouse, and barcode

reader, if required.
All results should be microprocessor controlled and of latest technology version.
The instrument should have the capability to interface a computer and a computer should be supplied for data acquisition and the patient recorded with recommended software.
The system should have RS232 serial port.
Display language should have English.
3. Recording Devices
High end colour ink jet printer, Refilling of cartridges should be possible compatible with ABG machine.
4. Sampler
The sample volume for measuring all parameter should not exceed 200 ul.
The instrument should accept heparinized whole blood, serum or plasma, arterial, mixed venous and capillary sample
It should also provide the facility to measure the above parameters in gases, cerebro-spinal fluid, dialysate, pleural fluid and urine.
5. Regents
The company should timely supply reagents, quality controls, electrodes other consumable with the analyzer to run the machine satisfactorily over the period of five year @ 30 samples/day, depending on the expiry of these consumable. Rates of all the consumable to be quoted separately and the price should be valid for Eight Years.
6. Waste bag
The waste container should be sealed to prevent operator biohazard
7. Back up power supply: Compatible UPS systems for blood gas analyzer for a minimum one hour back up.
8 Power requirements: 220-240, 50Hz

Item No 28

CPM UNIT

Must have a ultra-wide carriage to accommodate the typical knee replacement patients, ACL restructuring, athletes and pediatrics patients
Must have Progressive ROM to eliminate the time consuming adjustments that interrupts rehab time
Must have oscillation setting to increase the time spent in the working ROM by automating and replicating the benefits of active
physical therapy protocols
Should come with adjustment for controlling the flexion angle to control patients threshold for pain and able to reduce the angle of flexion
accordingly with out interruption
Must have hyperextension (-10º) to full knee flexion of (110º)
Must have a control unit attached with easy instruction and setting
Must have context sensitive help and multiple language interface
Should have back-lit display and buttons for maximum visibility in low light conditions
Must be light weight easy for transportation for one room to another with little effort at about 28 lbs and over all length at 37” with
built in carry handle
Must come with all soft goods, patient kit and treatment protocol
Must meet UL, CSA, and CE for safety and EMC

Item No. – 29

Short Wave Diathermy

The Short Wave Diathermy Machine should have continuous & pulsed output and

with following additional features:
It should have 1,000W pulsed and 400W continuous maximum power output
It should have Continuous and pulsed shortwave from one unit
It should have Back-lit display with clear operational information
It should have On-screen simplicity for quick set-up
It should have at least 10 programmable memory functions
It should have distinctive ergonomic design with rugged, lockable castors
It should have wide range of pulse widths: 20 - 400 microseconds
It should have wide range of pulse frequencies: 5 - 800 pulses per second
It should have up to 30 minutes treatment time
It should have choice of output modes: continuous or pulsed 1 in 3, 2 in 3 and 3 in 3
It should have complete with durable electrode arms and two 100mm capacitive electrodes
It should be supplied with output tester.
It should conform to the international standards ISO 13485, CE certified.
Technical Specifications
Mains Supply: 100-240 Vac, 1kVA max, 50/60Hz
Size: 470 x 470 x 940mm approx.
Frequency: 27.12MHz
Output Power: 400W maximum in Continuous Mode 1000W maximum Peak Power in Pulsed Mode
Output Modes: Continuous, Pulsed 1 in 3, 2 in 3 and 3 in 3
Classification: Class1, Type BF (EN 60601-1)
Pulse Width: 20-400 µs
Pulse Frequency: 5-800 Pulses per Second
Timer: 0-30 Minutes with termination of output and alarm at end of treatment
Tuning: Automatic
Accessories Required: Trolley, Inductive disc electrode,flexible electrode, Emergency Strip, switch.

Item No. 30

LASER Therapy with IRR

The Laser therapy unit must be with two sockets for single or cluster probes ensuring quick . and easy treatments
It should be supplied mains/battery as standard and has an on-screen battery power indicator.
It should be lightweight and easy to use
It should have frequency range 2Hz - 20 kHz
It should have time setting automatically indicates the energy in joules
It should have Joules power setting automatically indicates time required
It should have memory function for easy recall of favorite programs
It should have range of probes - single point and cluster
It should be supplied with shoulder bag and treatment trolley.
It should conform to the international standards ISO 13485, CE certified.
It should be supplied with Set of protective goggles (two pairs)
Should have both continuous and pulsed mode.
Technical Specification
Power Input: 100-240Vac 50VA Max 50/60Hz
Timer: 0-10 Minutes
Battery: Internal Rechargeable (Nimh)
Probes: Visible Led Probe: Output Power (Ave) 10mW, Wavelength 640nm, Duty Cycle 90%
Infrared Laser Probe: Output Power (Ave) 100mW, Wavelength 905nm, Duty Cycle 9%

60-diode Cluster Probe: Output Power (Ave) 32x10mW (Visible) & 28x15mW (infrared), Wavelength 640nm & 950nm, Duty cycle 90%
200mW Probe: Output Power (Ave) 200 mW, Wavelength 905 nm, Duty Cycle 9%, Nominal Ocular Hazard Distance 200 mm, Beam Divergence 5 x 22.5 degrees, Pulse Duration 200 ns.
Classification: Class 1 BF (EN 60601-1)
Size: 240 x 210 x 100mm
Frequency: 2Hz - 20 kHz

Item No. 31

Microwave Therapy.

Equipment for Microwave therapy with max.power in continuous mode at 250W and 1600 W in pulsed mode. Smart Card -6 inch LCD graphic display –serial integrated controller-16 bit microprocessorIt should have facilities to creat Personalised patient cards by using the smart memory cards to allow for quick selection of the current and/or protocol to be emitted and accesses a library of 50 programmes, as well as enabling the operator to create and memorise up to 50 different simple or sequential work cycles. on trolley.
Operating Voltage: 230V 50/60Hz
Absorption: 600W
Fuses: 6,3A
Insulation class I type BF
Risk class (93/42/CEE): II B
Degree of protection from liquids: IPX0
Complete with orthostatic arm and three types of antenna
1)circular antenna
2) Rectangular antenna dia. 47x12x7cm used mainly for treatment on extensive areas such as lumbar area, cervico- brachial, upper and lower limbs etc.
3)Three dimensional antenna mainly use for shoulders, neck vertebrae.
It should conform to the international standards ISO 13485, CE certified.

Item No. - 32

Fully Automated Three Part Hematology Analyzer

Measures 18 parameters including differential leucocyte with only 20 microlitre of blood
Backlit and touch screen LCD display.
All 18 parameters alongwith three histograms are displayed
In built thermal printer,and facility of external also.
Automatic sample prob wipe.
Automatic prob parking in side the machine
Automatic orifice cleaning with back flush.
Possibility of shifting discriminators manually for particle size analysis.
Should have zero back ground count at any time.
Should have two seperate chambers for WBC & RBC measurement.
Should have long life led,sensors & maintenance free membrane valves.
Should have throughput 60 test / hour
Should have reagent level monitoring system/alarm.

Should have enhanced WBC/platelets measuring range to accommodate high WBC/Platelets counts in cases of leukamia/blood bank samples
Should have local service station for maintenance of equipment
Should have power back up system in case of power failure.

Item No. 33

AUTOMATIC BIO-CHEMISTRY ANALYZER – RANDOM ACCESS)

System should be discrete patient prioritised automated random access walk away clinical chemistry
analysis for routine chemistry immune chemistry and drug assay. should have a through put of not less
then 300 test /hour for routine biochemistry test
Equipment should be provided to run at least 50 sample with capability to run 2/3 reagent chemistry for specific chemistries
Reagent requirement should be minimum (260µl/test) and have facility for on board refrigeration of all reagents.
The photometric range should be from 340-750nm with diffraction grading. It should also have atleast 12 fixed wavelengths.
Should have an O.D range from 0-3.2Abs instrument should be provided with 2 reagent arms along with 2 separate mixers
for performing double reagent tests It should be able to store more than 80 test programs in its memory A sample tray to
accommodate at least 50 samples should be provided. The instrument Should be able to load standard tubes of 5,7, 10 ml
and also sample cups should be provided with 20 positions for standard 2 blanks 8 controls on the same tray. The analyzer
should also have the facilityn to load a minimum of 20 emergency samples on a separate tray.
O. Should have permanent non disposable glass reaction
Cuvettes (individual)
1. Should have on board laundry with low de ionized water requirement of 5 Ltrs. /hour and should not need any plumbing
connector or continuous water supply or drainge.
2. should have facility of mechanical alignment of all mechanical assemblies including reagent /sample probes + rotors.
3. should have a vertical obstruction detection system for detection of obstruction and protection of needles from any possible damage.
4. should have Q.C. options with daily graph monthly graph and twin plot facility.
Equipment should have reagent monitoring facility with messages for replacement or refill and real time display of the reagent level.
Inccubation bath should be of dry pelher type for all reaction cuvettes and selectable temperature of 30oC or 37oC should
have a single probe capacitance level detection method to provide accurate level detection.
Should be capable of connection to the local area network system.
Should have automatic maintainance procedures.
The instrument should be provided with a UPS.

Item No. 34

Cardiac monitor with Defibrillator

- Biphasic
- Waveform display (min 3)
- External energy selection from 2 J to 200 J, biphasic
- Charging time less than 8 seconds @ 200 J (with a charged battery)

• Synchronizer and cardio version
• Unique disarm button (in addition to automatic time delay)
• Should come with high resolution monitor.
• Should come with 3 lead ECG that can be measured from cables, adult external paddles, paediatric paddles.
• Heart rate: 20 to 300 bpm BPM with user selectable alarms.
• Should come with external pacing, demand and asynchronous modes
• Should display CPR in real time
• Should have large internal memory that stores and prints 25 ECG events.
• Battery to last not less than 2 hours of continuous ECG monitoring or 30 full energy discharges.
• Battery indicator on display and self test on battery
Accessories needed
• Paddles with remote energy selection, charge and discharge buttons on paddles.
• Pediatric paddles adapters (set of 2)
• A/c 240 v V 50 hz charger and mains power source. Adult paddles and test paddles.
• 3 lead patient cable
• One spare battery
• Roll of 50mm recording paper x 10 rolls
• 5 oz tube of defibrillation gel x 5 tubes
• ECG cable with leads- 2 sets.
• External disposable pacing pads-2 sets
• Operation manual, service manual complete.

Item No. - 35

1. **DENTAL CHAIR**: - It should be Fully Electrical Dental Chair with up and down movement for chair and backrest with programmable position and return to zero position. It should be suitable to be used by left-handed and right-handed professionals. This changing should be possible even after installations.
- It should have delivery unit arm with 3 way syringe for Dentist, 2 high speed Air-Rotor terminals SS instrument tray with Pneumatic lock for delivery unit arm, LED X-Ray Viewer.
- It should have responsive feather-touch controls for seat and backrest movements, return to initial position, and one programmable work position which are set by the dentist & water unit with one Pneumatic saliva ejector and high vacuum motorized suction.
- It should be provided with pneumatic Doctor's stool with adjustable backrest tilt and Adjustable ring for foot rest.
- Double articulating head rest which can even be used to the handicapped patient on his wheel chair.
- It should have innovative and modern round-edged design. It curved of the backrest, which improves for Patient with high comfort but produce also approach of the doctor.
- It should have fixed left arm rest and right arm rest (90° Rotatable), ergonomically designed steel base, protected by an anti-slip rubber material. Steel-built structure with a resistant, smooth, high-shine, round edged coating.
- Up down and back rest movement motor should be from ISI Mark
- It should have LED based white and cool Dental Light with intensity of minimum 20,000 Lux. It should have switch ON and OFF from foot switch also. It should have switch OFF as soon as zero position when switch is pressed for going to zero position.
- Water control for Air Rotor should be on the coupling for easy adjustment of water.
- The base of the chair should be mounted on rubber sleeve for better stability and rust protection.
- The company manufacturing this should be ISO and products should CE Marked.

Item No. 36

DENTAL CHAIR UNIT COMPLETE WITH ACCESSORIES

A. DENTAL CHAIR: - It should be Fully Electrical Dental Chair with up and down movement for chair and backrest with programmable position and return to zero position. It should be suitable to be used by left-handed and right-handed professionals. This changing should be possible even after installations.

- It should have delivery unit arm with 3 way syringe for Dentist, 2 high speed Air-Rotor terminals SS instrument tray with Pneumatic lock for delivery unit arm, LED X-Ray Viewer.

- It should have responsive feather-touch controls for seat and backrest movements, return to initial position, and one programmable work position which are set by the dentist & water unit with one Pneumatic saliva ejector and high vacuum motorized suction.

- It should be provided with pneumatic Doctor's stool with adjustable backrest tilt and Adjustable ring for foot rest.

- Double articulating head rest which can even be used to the handicapped patient on his wheel chair.

- It should have innovative and modern round-edged design. It curved of the backrest, which improves for Patient with high comfort but produce also approach of the doctor.

- It should have fixed left arm rest and right arm rest (90° Rotatable), ergonomically designed steel base, protected by an anti-slip rubber material. Steel-built structure with a resistant, smooth, high-shine, round edged coating.

- Up down and back rest movement motor should be from ISI Mark

- It should have LED based white and cool Dental Light with intensity of minimum 20,000 Lux. It should have switch ON and OFF from foot switch also. It should have switch OFF as soon as zero position when switch is pressed for going to zero position.

- Water control for Air Rotor should be on the coupling for easy adjustment of water.

- The base of the chair should be mounted on rubber sleeve for better stability and rust protection.

- The company manufacturing this should be ISO and products should CE Marked.

B. Compressor:-

It should have Air compressor for dental use oil free type, Durable metallic body-Low noise, More than 20 liter tank capacity auto cut off switch, Pressure indicator, safety valve with Dust and oil filter pressure regulator with outlet pressure gauge,

C. DIGITAL DENTAL IMAGING SYSTEM :-

- It should have Sensor thickness not more than 3.5 mm with special protection,

Outer Dimension not more than 30.1mm X 43.7mm – 3.5mm, image resolution minimum1,800,000 pixels, about 22 Lines pairs / mm Resolution, sensor cable length minimum 3 meter with CCD Technology

- It Should required about 90% less radiation as compared to X-Ray film
- It should be having USB hot plug and plague connectivity with Computer
- It should be supplied with latest computer
- It should have user Friendly Software.
- Protective sheaths are provided.
- It should have Pixel size about 22.5µm x 22.5µm with high resolution,

Sensor life 3,50,0000 ~ 8,00,000 exposures and the facility of Patient Index with Patient search and Patient Back up facility.

- It should have layout facility for Auto take features for patient & easier exposure

- Software has Image adjustment facility such as brightness, contrast adjustment, Sharpening, cleaning, enhancing, Density, colorized etc.
- It should have labeling, marking, Image's Notes, CD writing, measurement for straight & Curve roots with maximum accuracy after calibrations
- It should have Customized toolbars facility for single touch selection

D. INTRA ORAL CAMERA:-

- It should have high resolution, sensor about 1/4 inch CCD & adaptor Input, pictures to divide up and change, own memory of pictures& signal output

E Piezon Ultrasonic Scaler with 7 tips and 7 wrenches

- Unique Fiber optic Scaler
- Ultrasonic Scaler hand-pieces deliver optic illumination directly to the clinical treatment site.
- Gives you visible work area while scaling.
- Compact & reliable
- Small Module for Integration In to Dental Equipment
- 3 Power Mode
- Frequency about 28 to 32 KHz
- light Weight (control unit, hand piece),autoclavable

F. DENTAL X-RAY UNIT:-

-Dental X-ray with Double Pantographic Arm with following features:
- It should be manufactured with International Safety standards as per WHO norms
- It should have soft positioning Arms for Accurate Tube Positions, great lightness and flexibility in the movements.
- It should have free swivel head, which allows easy positioning of the Head, internally Lead Coated Head tube and cone to avoid scattered radiation.
- It should have High voltage generator with high efficiency in the emission of the X-rays, Digital control equipped with an easy ready display indicating with precision the selected time.
- It should be compactable with any RVG.
- It should have Exclusive angular indicating system for prices head positioning in various radiography techniques, High efficiency and greater sharpness of the radiography, shorter exposure time and Greater safety.
- It should have Double pantographic arm with vertical and horizontal Smooth movements.
- It should have available in floor as well as wall mounting.

G. LATEST LED BASED LIGHT CURE:-

- It should have cold and blue light (LED based), Light intensity minimum: 1000 mw/cm2, Wavelength about 470 nm
- It should have Modes about 4 preset modes, Ramp (Soft start)
- It should have ADA recommends initial curing with low intensity followed by high intensity to prevent under curing of restoration.
- It should have Hand piece Anodized aluminium
- It should have Protection U.V. shield

H CLINICAL SPEED MICROMOTOR :-

- Speed up to 40,000 RPM
- Long working without any heat

- One spare carbon brush set

I. STRAIGHT HANDPIECE:-

-It should have straight attachment hand piece
- It should have about 1:1, 40,000 rpm with 3 ball bearings
- It should have High quality & fits any brand of Micro Motor & Air Motor

J. CONTRA HANDPIECE:-

- It should have latch head with Contra angle hand piece
- It should have ball bearings based& rotation speed near about 20,000 RPM
- It should have high quality & fits any type of micro motor & Air Motor

K. DENTAL FRONT LOADING AUTOCLAVE:

- It should have universal B cycle sterilizes wrapped, unwrapped hollow or solid instruments.
- It should have B+ porous cycle is installed to handle cotton sterilizations, separate steam generation and chamber heating, using steam boiler to generate steam and heating elements to heat up the chamber.
- It should give a better control over the steam generation and delivery, thus reducing the amount of water used and chances of over heating the chamber.
- It should have minimum20 Lt. Capacity with vacuum & dry cycle, 3 separators to hold different type of Instruments
- It should have LED display of temperature, time and pressure. The pressure and temperature of the autoclave range from 15 PSI at 121 degree to 30 PSI at 134 degree.
- It should have the body and trays of the autoclave made from corrosion - resistant Stainless Steel.
- It should have the equipment messaging and warning system, Separate tanks to prevent recycling of water, Auto shut off & 'stand-by' mode
- It should have Automatic Functioning and Safety thermostat Micro switch to confirm door closure
- It should have Safety valve and User friendly

L. Surgical Micro Motor:-

-It should be Brushless surgical micro motor with latest technology.
-It should be suitable for Implanting and other Dental surgical procedures.
-It should be micro processor Controlled with digital display.
-Motor-Power: about 200 Watt
-Motor torque level: 1-10 Ncm, and suitable for contra
-Motor speed: 500-40000 rpm
-Max. Pumping capacity: 100 ml/min
-It should have brushless and Autoclavable motor.

M. APEX LOCATOR:-

It should have-
-Precision Digital Apex Locator
-New digital apex locator insures great accuracy in wet or
-Dry canal and superior to other Apex Locators using analogue signals.
-Multi-frequency measuring technology
- Instant accurate measurement of canal length
- User friendly interface

- Large Hi-contrast LCD screen for easy monitoring
- Compact and smart design
- Audible warning system
- Auto power shut-off
- AAA battery operation

N. Endo motor:

-Fits all popular brands of Rotary files
- Variable Torque control,
-it should be Variable Speed, Auto-reverse function, well programmed memory
- Maximum head angles for ease of treatment
- Push type Ultra miniature head
- On/Off switch on hand piece
- Lightweight, smart and comfortable Handpiece
- Wide screen provides high visibility
- Flat control panel allows simple and user
- Compact desktop unit
- 2 way power source
(AC cord / rechargeable battery pack)

O. Glass bead sterilizer of ISI Mark Company

1. Cabinet Size L x W x H (Approx) 155 x 155 x 370 mm
2. Crucible (Brass) size (Approx) 50 mm dia. X 137.5 mm Depth
3. Preset Temperature Range 245deg.C – 265 deg C (approx)
4. Initial Stabilization Time 30 Minutes
5. Weight (Inclusive of Glass Beads) (Approx) 6 Kgs
6. Wattage Approx 250 W Single Phase
7. Input Power 220V/ 50 Hz

Consumables for 1000 cycles has to be quoted as and when required with ISI Marking.

P. UV chamber of ISI mark company.
Dimension 600 x 240 x 300mm (Approx)
> Power Consumption < 10 watts (Approx)
> Ultra violate blue light 8 W
> Micro – Switch ON / OFF Control
> Outer Body Cover of stainless steel
> 12 SS Trays for storing instruments
> With ISI marking.

Q. Sand blaster for periodontal use.
Sandblaster 1tank & 1tip with dust collector
Sand blaster 1 tank and 1 widia tip
- one recirculating sand reservoir
- foot pedal
- Filter
- Interior day light socket
- Working air pressure: 70-100 psi (approx)
- Automatic 220volts
- With all essential accessories.
- With ISI marking.

R. DENTAL AMALGAMATOR (CAPSULE TYPE).

1. The amalgamator shall operate room 220/250V – 50 Hz
2. Capsule holder shall accept and maintain all makes, of capsules

including all other Dental materials and move in a figure 8 configuration.
3. Shall have timing device fitted with membrane Keyboard from 0 - 99 sec.
4. The amalgamation shall have two separate keys for direct programming of 10 & 15 sec.
5. Mixing frequency shall be variable to accommodates all filling Materials according to ADA or ISO specifications.
6. Push button start.
7. Protective capsules cover with micro switch to cut off automatically shall cover be opened during mixing.
8. Shall be supplied with 15 Amp plug.
9. With ISI Marking.

Item No. 37

BLACK AND WHITE ULTRASOUND MACHINE

1. FULLY DIGITAL

SYSTEM SHOULD BE FULLY DIGITAL
DIGITAL BEAM FORMING
DYNAMIC RECEVING FOUSING
DYNAMIC FREQUENCY SCAN
DYNAMIC APODIZATION

2. OPERATING MODE - WINDOW BASED OPERATION

3- APPLICATIONS SOFTWARE - SHOULD HAVE APPLICATION PACKAGE FOR

ABDOMINAL, OB/GYN, UROLOGY, CARDIOLOGY, SMALL
THYROID, SCROTUM, BREAST, ORBIT

4. OPERATING MODES - B -MODE, M –MODE, BM –MODE, B+B–MODE, 4B-MODE

5- TRANSDUCERS

A- TRANSDUCER SHOULD BE BROAD BAND

B-CONVEX ARRAY TRANSDUCER WITH EITHER 2-6 OR 3-5 MHZ FREQUENCIES

C-BROAD BAND HIGN FREQUENCY LINEAR ARRAY WITH FREQUENY RANGE 5-10 MHZ.

D-BROAD BAND MULTIARRAY SECTOR PROBE WITH FREQUENCY RANGE 1-5 MHZ

6-THE SYSTEM SHOULD HAVE 256 GREYSCALE OR MORE

7- SYSTEM SHOULD HAVE A DYNAMIC RANGE 0F 190db

8-THE SYSTEM SHOULD BE ABLE TO SUPPORT ATLEAST TWO TRANSDUCERS---2-ACTIVE PORTS

IMAGING DEPTH SHOULD MINIMUM 30 CM MORE WILL BE PREFERABLE

9-THE SYSTEM SHOULD HAVE HIGHER FRAME RATE.

10- THE SYSTEM SHOULD HAVE A 12” OR MORE FLAT PANNEL COLOR MONITOR.

11-ZOOM SHOULD BE IN LIVE AND FREEZE MODE.

12 – THE SYSTEM SHOULD BE AUTOFOCUS AND ALSO TRANSMISSION FOCUS MORE THAN 4 TIMES.

THE SYSTEM SHOULD HAVE IN BUILT HARD DISK OF ATLEAST 40GB HIGHER WILL BE PREFERABLE.

13-THE SYSTEM SHOULD HVE A CINE MEMORY OF ATLEAST 256 FRAME, HIGHER WILL BE PREFARABLE.

14-PROGRAMSABLE ANNOTATION SHOULD BE AVAILABLE.

15-TGC SHOULD BE 8 STEPS.
16-KEYBOARD – ALPHANEUMARIC AND WITH BACKLIGHT
17-THE SYSTEM SHOULD HAVE TISSUE HARMONIC—PHASE INVERSION THI.
18-PANORAMIC IMAGING FACILITY.
19-B & W THERMAL PRINTER.
20 AN ON LINE UPS WITH ATLEAT 30 MINUTE POWERS BACKUP.
21-SUPPLIER COMPANY OR FIRM MUST HAVE ITS SERVICE CENTER IN JAIPUR STRICTLY.
22THE SYSTEM INCLUDING TRANSDUCER SHOULD BEAR A COMPRENSIVE WARRANTY OF ATLEAST THREE YEAR.
23-ANNUAL MAINTAINANC CONTRACT FOR FIVE YEARS.
24-SPARESA AND CONUMABLE PARTS SHOULD AVAILABE FOR SEVEN YEARS.
24 –COPY OF SOFT WARE—ONE HARD COPY AND ONE SOFT COPY.
25-FOUR OR MORE CHANNEL MEASUREMENT SHUULD BE AVAILABE IN PACKAGE.
DETAILED OBSTETRIC, UROLOGY, GYN AND SMALL PART PACKAGE SHUOLD BE AVAILABE.
26-PERIPHERAL OUT PUTS—VIDEO OUT PUT-FOR CD, DVD RECORDING.
VGA OUTPUT
MINIMUM TWO USB PORT
TWO THERMAL PRINTER OUTPUT
DICOM –UPGRADABLE
27-A HIGHER END COMPUTER WITH GRABER SOFT WARE AND B&W LASER PRINTER.

Item No. 38

Baby bassinet

- Standard bassinet for birthing suit room with fixed height stand including monitor shelf. Micro processor based control system examination light and examination bulb life 3000 hours heater. Output 440 watts
- Parabolic reflector, wormer module temperature saving system: Skin probe range: 34 deg. C to 38 deg. C audible and visual alarms. Dimension: 185HX71WX50D cm (approx.)
- Bed dimension : 48cm x 66 cm (approx.)
- Possibility of tilting : Trendelburg.
- Power : 240 Vac/50 Hz

Item No. 39
D & C Set
1. Sponge Holder 1
2. Volsellum 1
3. Sims Speculum 1
4. Sharman curette 1
5. Blunt & Sharp curette 1
6. Uterine Sound 1
7. Ovum forceps 1
8. Hegars Dilator 1
9. S.S.Stray 11x7 1
10. S.S Bowl small 3
11. Cervical punch biopsy forcep 4

Item No. 40

LSCS Set
1. Sponge Holder 4
2. Needle holder 3 (8”)
3. Artery Forceps 10 (6 Nos curved 8” and straight 4 nos 8”)
4. Allis Forceps 5
5. Bab cock 2
6. Lanes Tissue Forceps 1
7. Doyn’s Retractor 1
8. Towel clip 4
9. Steel Basin 1
10. S.S. Bowl 3
11. Big Bowl 1
12. Steel Tray without cover 1
13. Green Armytage 3
14. Kidney Tray 10” 1
15. Myo curved scissor 8” 2
16. Straight scissor 7” 2
17. Tooth dissecting forceps 7” 1
18. Non Tooth dissecting forceps 7” 1
19. Metzenbaum curved scissor 8” 2

Item No. 41
Tuboplasty Set
Allis forceps 6” 4
Aneurysm needle (curved to left) 2
Aneurysm needle (curved to right) 2
Artery forceps mosquito curved 12
Artery forceps mosquito straight 8
Babcock 6” 4
Dissecting forceps Adson Plain 2
Dissecting forceps Adson Toothed 2
Needle holder mayohegar 6” 2
Needle holder curved 8” 2
Probe with director 4
Probe grooved 6” 2
Langenback retractor medium 4
Round ligament forceps 2
Scissors fine straight 5” 2
MICRO TUBOPLASTY
Micro forceps without teeth 2
Micro forceps with teeth 2
Retracting rod 0.5”, 2”, 3” – 6” 2
Tubal scissor 2
Irrigator 2
Blunt probe ligature conductor 2
Irrigator cannula 19 g 2
Irrigator cannula 20 g 2
Irrigator needle 2

Item No. 42

SPECIFICATIONS OF ENT OPERATING MICROSCOPE

1. Microscope provided with co-axial, fibreoptic illumination by a cold light source having a xenon lamp of not less than 12 V/100 W having adjustable spot settings.
2. Three objective lenses having focal length of 200 mm, 300mm, 400mm,
3. Binocular, inclinable 60 degree viewing tube, F=176mm.
4. Wide field, high eye point eyepiece with integrated eyecup having a minimum magnification of 12.5X.
5. Five step manually adjustable magnification changer with magnification factor of 0.4, 0.6, 1.0, 1.6, and 2.4
6. Manual fine focusing device.
7. Knob for manually adjusting interpupillary distance.
8. Should have built in IR and UV filter.
9. Mounted on a mobile floor stand with locking facility, having a minimum height of 1.25m.
10. Adjustable friction of all joints.
11. Microscope should be movable on an inclined coupling for positioning in lateral direction.
12. The maximum stretching length of the horizontal arm to be not less than 1000 mm.
13. The swivel angle of the carrier arm not less than 300 degrees.
14. The microscope should have six movements of degree of freedom allowing it to be moved to and fro, up and down and from side to side.
15. Back up lampj.
16. Working on mains power supply of 220V.
17. Accessories:
    a. Beam splitter
    b. Binocular co-observation tube.
    c. Handle for repositioning of microscope
    d. Strerilizable rubber caps for control Knobs.

Approximate cost: Rs. 15.00 lacs

Item No. 43

SPECIFICATION OF ENT EXAMINATION CHAIR

1. Electromotive height adjustment by pedal switch 54cm to 74cm
2. Upper part rotatable around 360 degree with arresting brakes on both sides.
3. Seat with integrated handles rotary both 90 degree to right and to the left.
4. Variable inclination of back rest.
5. Synchronous coupling of back rest, arm rest and foot support
6. Should have read rest also
7. Power supply 230V/50Hz.

Item No. 44

SPECIFICATION OF PURE TONE AUDIOMETER

i. Digital computerized audiometer, two independent channel

ii. Built in display

iii. Computer interface

iv. Should be able to perform

- Air conduction pure tone testing from 120 hz to not less than 16000Hz intensity range from -10db to not less than 100db in speech frequencies.
- Bone conduction pure tone testing from 250 Hz intensity range from 0 db to not less than 250db
- Masking with white noise, narrow band noise, up to a maximum of not less than 100db
- Speech audiometry
- Special tests like SISI, Tone decay, ABLB, Stenger
- Free field testing
- High frequency audiometry

v. Should be supplied with

- Patients head set
- Bone vibrator
- Patients response switch
- Power cord
- Free field amplifier
- Talk back microphone
- Patients instruction microphone
- Insert earphone
- Operating manual
- Voltage stabilizer 1 KVA

Vi Should be supplied with color monitor 14" , UPS and CPU and necessary Software to operate audiometer.

Item No. 45

Specification of Micromotor Mastroid Drill

1. Should be able to achieve a high speed of not less than 40000 rpm.
2. Should have a dual speed control from control box as well as foot pedal.
3. Should have both modes forward and reverse cutting.
4. Should have inbuilt pump for irrigation.

Item No. 46

Specification for Digital Slit-Lamp with Photography

MICROSCOPE TYPE: Galilean with converging binocular tubes.
MAGNIFICATION SELECTION: Five steps by drum rotation.
EYE PIECE: 12.5x
MAGNIFICATION RATIO: 6x, 10x, 16x, 25x, 40x
PD RANGE: 52-75mm
DIOPTER ADJEUSTMENT: +/- 6
SLIT WIDTH and LENGTH: Continuous from 0-14 mm
SLIT ANGLES: 0-180 Degrees
FILTERS: Cobalt Blue, Red-free (Green), Amber, Neutral Density, IR cut and UV cut.
ILLUMINATION LAMP: 12V, 30W, Halogen lamp
Fixation TARGET: Red-LED
TABLE BASE: To allow longitudinal, lateral and vertical movements
CHIN REST: To allow vertical movement
APPLANATION TONOMETER:

Mounted on top of binocular microscope
Measuring Range:0-80 mm Hg
Diameter of Pneumatic face:3.06mm
Area of Applanation: 7.354 mm

DIGITAL CAMERA:

Image Capturing Device: 1/1.8 type CCD
Image quality of CCD 8.0 megapixels
Exposure mode: Autocapture of multiple shots/Manual
Sensitivity: Auto/ ISO 100 /200/400/800

Item No. 47

Specifications for Electrosurgical Unit

Integrated CPU control, feather touch, digital system
Operating frequency: 350KHZ
Display: Digital
Monopolar auto cut: 300 to 400 W
Not less than two blend modes
Provision for spray, Fulgration and Dessication
Micro/Macro Bipolar Coagulation Low: 80 W
Bipolar/Coagulation/Cut High: 80 W
Low weight
Input Voltage: 150 to 270 V
Facility for underwater cutting/coagulation

Accessories:

Double pedal foot switch (Monopolar)
Single pedal foot switch (bipolar)
SS patient plate with cable/Rubber patient plate
Autoclavable handles: onset
Electrodes: one set
Bipolar forceps with cord
Mobile trolley

Approximate cost of equipment: Rs. 2.5 lacs (rupees two and a half lacs)
No. of equipments required: 5(Five)

Item No. 48

Specifications for Cystoscope

Cystoscope sheath with obturator, 17 Fr, with oblique beak, inner tube with continuous irrigation 1;
Cystoscope sheath with obturator, 20 Fr, with oblique beak, inner tube with continuous irrigation 1;
Bridge, two channels, with catheter deflecting mechanism1;
Telescope 0 degree 1;
Telescope 30 degree 1;
Fiber optic light cable 1;
Light source, Xenon 1;
Biopsy forceps 1.

Approximate cost of equipment : Rs 4.5 lacs(Rupees four and a half lacs).

No. of equipments required: 1(One)

Item No. 49

BOD INCUBATOR

Stainless steel make, full length inner plexi-glass door.

Castor wheel mounted tie easy movability.
CFC free High efficiency refrigerator system mounted at bottom, proper air circulation for uniformity.

Temperature Range: +5degC to 50deg.C, 0.1degC resolution

Temperature Control: Digital Control,

Micorprocessor based controller for mains, heating, and cooling with separated indicator lights.

Accuracy of Temperature: ± 0.5degC

Power:230 volts, 50Hz AC, Mains single phase.

Size: 700 x 900 x 650 mm approx. 15cu.ft.

3 shelfs, made of stainless steel

Inner illumination with sleek fluorescent tubes.

Voltage Stabilizer: 3 KVA

Remarks

The apparatus should confirm to Indian Standard Institution Guidelines with latest. Amendments in Indian Standard Specification for Incubators or equivalent National or International Standards covering Markings, tests and Safety requirements Voltage regulators of appropriate rating to be included for each item to cope with 160-260 V.

Item No. 50

Specifications for Ultrasound Machine

Digital Ultrasound equipment suitable for USG exam of abdomen, Obstetrics and Gynecology.

System should have digital scan converters capable of supporting two or more probes with facility to switch between
transducers.
Fast selection of transducers with a single key stroke.
The system should include B-mode, M-mode, and simultaneous B+M mode.
Keyboard/Hard disc;

a) Full alphanumeric A keyboard having back lift central panel with Pre and Post processing functions.
b) Adjustable dynamic range of 100 db or more.
c) 256 frame cine loop or more.

Display Monitor, 12” or more, high resolution, swivel and tilt facility.
Software:

a) Gray shades-256 in M-mode
b) TGC control enabling, multistep transmit focusing.
c) Magnification in Real time and Frozen mode in any point zone.

d) Scrolling facility should be possible after magnification.
e) Standard measurements and calculations: circumference/area.
f) Tissue Harmonic Imaging facility should be available.
g) Standard examinations, specific calculations for abdomen, heart rate, obstetrics,gynaecology.
h) Dicom compatible.

Transducers:

a)2.5 to 5 MHZ convex.
b)5 to 9 MHZ endocavitary.
c)5 to 10 MHZ linear transducers.
d) Transducers should be Broad Band,multi-frequency,high density.

Approximate cost:Rs.11 lacs(rupees eleven lacs).

No. of equipments required: Two.

Item No. 51

Specifications for Cysto-Resectoscope

Cystoscope sheath with obturator,19Fr, with oblique beak, inner tube with continuous irrigation 1;
Cystoscope sheath with obturator,22 Fr,with oblique beak, inner tube with continuous irrigation 1;
Bridge, two channels, with catheter deflecting mechanism1;
Telescope 0 degree 1;
Telescope 30 degree 1;
Fiberoptic light cable 1;
Light source, Xenon 1;
Biopsy forceps 1;

Resectoscope sheath with obturator, 26Fr, inner tube for continuous irrigation, with ceramic insulator 1;
Resectoscope sheath with obturator, 27Fr, inner tube for continuous irrigation, with ceramic insulator 1;
Visual obturator fitting into 26Fr sheath1;
Resectoscope(working element) for loops, finger action type, with a slot for high frequency cord 1;
Urethrotome sheath with obturator 21 Fr 1;
Cold knife, straight 1;
Coagulating electrode, ball end,6;
Ellick evacuator 2;

Approximate cost of equipments: Rs.10 lacs(Rupees ten lacs only)

No. of equipments required:1(one)

Item No. 52

BIOSAFETY CABINET,CLASS II BI(As per NSF guidelines)

The basic equipment shall consist of exhaust HEPA filter,' Supply HEPA filter,HEPA filter for supply air, negative pressure exhaust plenum, front opening sash with either counter weight of motorized movement, suitable blower assembly, necessary lighting, indicators and controls for the cabinet. The equipment should be mounted on a stand with leveling feet. The exhaust plenum should be under negative pressure, hard ducted to the outside.

HEPA FILTER: **Face dimensions**;4ft.(L) X 2ft.(W) X 6ft.

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.

Face Velocity: 105 FPM

Light Intensity at work surface: 800 lux or more over the entire work surface.

Noise level: <70dba.

UV germicidal lamp intensity: >40 microwatts/sq.cm over the entire work surface.

Main body, side and rear panel: Electrogalvanized Steel or Mild Steel, oven baked epoxy powder coated finish.

Workable (surface):SS304 or SS 316.Individual switches and indicator lamps for blower motor,florescent lamp and

UV lamp.

Differential pressure gauge: Scale display in cms of water

Electical: Electrical outlet socket (5 ampere rating)qty:2 nos.Should be fitted with earth leakage circuit breaker(ELCB)

Prejitter: one

The Biosaftey Cabinet comply with the following requirements at site:-

1. Down flow velocity and Volume Test.
2. Inflow Velocity Test.
3. Airflow Smoke Pattern Test.
4. HEPA filter Leakage Test.
5. Cabinet Leakage Test.
6. Electrical Leakage: Ground Circuit Resistance and Polarity Test.
7. Lighting Intensity Test.
8. Vibration Test.
9. Noise Level Test.
10. UV lamp Intensity Test.
11. Alarms and indicators test(if provided).
12. The differential pressure gauge should be calibrated.

Remarks:

Equipment quoted should comply with Indian Standards Institutions Guidelines or any other National or International Guidelines.

Item No. 53

SPECIFICATIONS OF FULLY AUTOMATED BIO-CHEMISTRY ANALYSER

1. **System**
   Completely Open discrete, multichannel random access with automatic rerun

facility without ISI:

2. **Throughput**
   Minimum 400 photometric tests per hour
3. **On line tests and programmable parameters**
   Minimum of 45 photometric tests with facility for calculated test, profiles and formulas
4. **Assay Type**
   End point, rate and fixed point.
5. **Calibration possibility**
   Linear Kinetic, one point, 2 point rate, 2 point wit linearity
6. **Sample Disk**
   Minimum 75 positions for routine with continuous loading facility
7. **Dedicated Stat Table**
   Refrigerated stat table with minimum 20 positions.
8. **Sample Cups**
   Primary tubes or sample cups (normal or pediatric)
9. **Sample type**
   Serum, urine, CSI, acetic fluid, whole blood.
10. **Reagent Disk**
    Refrigerated position for at least 70 reagent containers
11. **Sample Volume**
    3-50 microlitre increment with increase or decrease in sample volume with diluter
12. **Sample probe**
    Probe with level sensor and washing
13. **Clot detection**
    Clot detection with immediate alarm
14. **Reagent Volume**
    25 ul to 250 ul with 5 ul increment
15. **Reagent probe**
    Probe with level sensor and washing
16. **Reagent Stirrer**
    On board stirring facility for proper mixing of samples and reagents
17. **Cuvette**
    permanent glass quart / cuvette with on board washing with deionised water and
    auto drain facility for the waste fluid
18. **Reaction Temperature**
    Reaction cuvette temperature control by dry bath incubator
19. **Photometer**
    Multi wavelength diffraction grating photometer with 13 wavelength ranging from 340 to 800 mm mono and bichromatic
20 **Absorbance range and sensitivity**
    0-2.5 Abs or more. Sensitivity of 0.001 absorbance
21 **Workstation**
    Pentium based PC with 15 inch color monitor
22 **Data Output**
    Through display and on line 80 character line printer to hold continuous sheets
    of normal paper
23 **Data storage**
    Facility to store at least 25,000 sample data on hard disk.

24 Quality Control
Real time, individual and cumulative quality controls

25 Interface
RS232 C mono and bi directional

26 Back up instrument
Discrete analyzer with a thoughput of 240 tests per hour without ISI

27 Deionizer
Compatible Deioniser plant with sufficient storage facility.

28 Power Backup
Compatible online UPS system with a back up time of 30 minutes

29 Warranty Clause
Two years comprehensive warranty.

Item No. 54

Glycosylated Haemoglobinometer

1. Fully automatic
2. User Friendly, easy to use
3. Multiple sample accommodation in primary tubes and sample vials. Whole blood primary tube sampling
4. Facility of result display with chromatogram in a printed format
5. Minimum interference from other labile HbA1C, Lipemic samples, other haemoglobin variants
6. With Bar Code Facility.
7. With LCD Display.
8. With Built in printer.
9. With Data Storage facility.
10. With Service port for connectivity
11. With Suitable UPS for ½ hr capacity.
12. With Two years warranty.
13. Five Year AMC along with rate.

Item No. 55

Specification for camera for Digital x-ray Machines and Mammography

Processing Capacity:

14" x 17" cm
26" x 36" cm
8" x 10" cm

Total Film processing rate more than 100 film/hr.

Pixel size -Min 35 microns

Spatial resolution -500 dpi

Grey Scale Resolution -Min 12 bits

- Density Adjustment should be automatic.

Power Supply 200 – 240 V Ac
Single Phase, 50hz 12A.

Details of warranty, maintenance, Spare parts supply in case of Breakdown.

Should be given along with.

- Details of installation in Govt. Institutions should be given.
- Also it should be specified if film of same concern only can be used and if yes, Assurance of availability of the same should be given.

Item No. 56

Specification of Ultrasound machine 2 D with colour Doppler

1. Digital System capable of performing imaging application on Abdominal, Obst. / Gynae, Musculo Skeleton, Vascular, small parts etc.
2. Transducer to be provided should be:-
   i. Convex Abdominal - 3-6 MHz.
   ii. TVS – 5-9 MHz with wide angel.
   iii. Linear high frequency 9-11 MHz.
3. System should be able to support at least 3 Transducer Ports.
4. System should incorporate facility for high resolution 2D, M mode, PW, CW, Colour Power Angio Imaging.
5. System should have Duplex Mode Facility in 2D, colour / colour power mode.
6. System should have Broad Beam Formation of Signals from 3-11 MHz.
7. System should have 256 or more Grey shade display and frame rate 200/ sec. or higher.
8. System should have a Dynamic Range over 170 db or higher.
9. System should have a high PRF. (2000 HPRF.)
10. System should have more than 120 Transmitting Channels and at least 18000 Reviewing Channels.
11. System should have a Scan Depth of 28 cm.
12. System should have Cine Loop review of all images both frame by frame and in cine mode.
13. System should have Harmonic Imaging on all Probes.
14. System should have 17” high resolution medical grade LCD screen monitor.
15. System should have Compound Real Time Imaging.
16. Hard Disk Memory should be atleast 120 GB.
17. DICOM availability and compatibility / upgradeability for Teleradiology / PAC.
18. Upgradeability to New Software as and when available.
19. Minimum Warranty for 2 years.

20. Inherent voltage fluctuation protection.
21. It should have FDA / CE Approval.
22. Please respond to each specification in the same format and order and support with product date sheet.

Item No. 57

Specification for oxytocin in fusion pump

1. Flow rate should be print 0.1 to 450 ml / hour with 0.1 ml / hour increment.
2. It should have choice of micro and macro drops.
3. Volume limit should be more than 9900 ml.
4. It should use conventional tubing (4 mm), PVC any Indian make.
5. Immediate display of choice of programming after purge.
6. Must have function for immediate forward and reversed of screen parameters.
7. Programming – MI/hour, time x volume limit.
8. Must have display of flow rate observed from a distance of 10-12 feet.
9. Must have occlusion pressure from 0 to 120 KPA.
10. KVO 3 ml / hour or less.
11. Bolus rate more than 450 ml / hour.
12. Special function, titration, fluid balance.
13. Time limit one minute to 99 hours 59 minutes.
14. Should have prealarms ultrasonic sensor type.
15. Visual or sound alarms like endof battery, incorrect flow rate, door open, no drops, occlusion, programming error, running in KVO, Fluid balance etc.
16. Flow rate deviation with standard tubing should not be more than + or – 6% of the programme flow rate.
17. Battery rechargeable more than 5 hours of operations.
18. Should be able to work on 220 V.

Cost – Rs. 75000/- per unit

Item No. 58

SPECIFICATION FOR " CARDIOTOCOGRAPH"

Cardiotocograph antenatal (NST) and intra par tum fetal monitor.
Fetal monitor for three functions

a) Fetal Heart rate recording
b) Toco-recording (For intrauterine pressure recording)
c) Maternally sensed fetal movement recording.
    - Twin monitoring facility required.
    - Colour coded transducers, plugs and sockets.
    - Very compact and light weight.
    - Detachable printer
    - 1.5 MHZ multi crystal directional pulse Doppler.
      FHR detection with low ultrasound energy exposure to fetus.
    - Optimize, fully screened and water proof FHR transducer the transducer and

belt clip are designed for ease of use
- Built in transducer storage.
- Manual or automatic Toco-Zero light weight flat faced with guarding type toco dynamo meter. It has the same belt clip and belt in, as the transducer
- Display 260 x 64 mm graphic LID in Alphanumeric mode.
- 6 hour memory with fast print facility.
- Actogram – Automatic movement signal can be printed on the chart record as a graph or as any event marks
- True dual channel twins print out
- Purpose designed trolley/cart
- Display wave form and digitals
- Automatic fetal movement detection
- Built in Rechargeable battery for 2 hours continuous work
- Built in network capacity.

Item No. 59

Resuscitation Kit

1. To have Retromolar Intubation fiberscope for unexpected difficult airways.
a. Tip Distal Bending 40°.
b. To be movable eyepiece
c. To have a light source connection
d. With length 40-42cms and dia 5-6 cms.
e. ET tube holder should be provided
f. Should take min. 5.5 size of ET tube
2. Portable LED light source should be provided
i. with illumination not less than 50000 Lux
ii. should run on two 3v photo batteries
iii. burning life should be more than 100 minutes
iv. ergonomically designed and can be connected to both the fibrescopes
v. life of LED should be close to 50000 hrs
3. One Laryngoscope with rechargeable battery pack and blade with fibreoptic mechanism should be provided to be used on both adult and pediatric patients with charger.
4. Other accessories like, magill forceps should be provided.
5. Should have Emergency Cricothyroidotomy for pediatric and adult
i. disposable blades
ii. dialator
6. Should have Combitube size 37Fr.
i. with complete kit
7. Should have Intubating Laryngeal Mask Airways with Following Components:
a. ILMA Sizes 3 & 4.
b. ILMA Tubes ID 7mm & 7.5mm.
c. Tube Stabilizing rod
d. Cuff deflator
8. Should have Laryngeal Mask Airways
i. sizes 1,2 and 4
9. Handy and strong brief case/bag should be provided to keep all the instruments safe.
10. Set of disposable percutaneous tracheotomy kit for adult and pediatric.
11. Should have standard AMBU bag for pediatric and adult.
12. Mechanical suction pump with suction catheter and stomach tubes.

13. Should have Aluminum Oxygen reservoir 2 Liter with oxygen tube and cather.
14. Oxygen pressure reducer, regulable 0-15 liter with coupler for respirator.
15. Ventilating bag
16. Lubricant
17. Blood pressure meter, boso K-II
18. Stethoscope
19. Rescue blanket gold/silver
20. Infusion system.

Item No. 60

ECG Machine 12 channel

· Simultaneous acquisition of up to 12 leads.
· Real time continuous recording of 3, 6 and 12 channel.
· Recording speeds of 5, 10. 25 or 50 mm/sec
· Extensive ECG quality control by AC Noise Filtering and Baseline.
· A4 size reports for convenient reading and filing.
· Colour coded keys for case of operation.
· Convenient battery operation for greater mobility.
· Versatile report formats and speed options to provide auto reports or rhythm reports.
· User configurable filters.
· Preview signal quality prior to printing. Saving time and paper.
· Keyboard entry for patient ID information.
· Capability to generate any number of ECG copies possible for filing and distribution.
· Adult and paediatric analysis programs std.
· Automatic interpretations of ECG data.
· Availability of adult, paediatric and neonatal accessories.
· Accessories e.g., stand, cables, electrodes etc. Should be quoted separately.
· ECG Paper roll for 1000 patients
· Service and operation manual complete.

Item No. 61

Ophthalmic Ultrasound (A and B)

A/B SCAN (OPTHALMIC ULTRASOUND)
The following requirements must be met
• High resolution dedicated A and B, ophthalmic Scanning unit Bscan will cross vector.
• The system should consist of fourth generation microcomputer and high speed digital electronics, with highest resolution monitor.
Technical Features:
• A-scan
• Three A scan Modes
• Auto biometric, Manual Biometric, Diagnostic
• Complete IOL program capabilities include SRK1 SRK11 SRK. T Hollady or Binkhorest formulas.
• Save in memory capacity at least 45 cases for A-scan images and corresponding IOL data.
• 10MHZ solid probe
• The unit should incorporate, audio feed back for probe alignment.
• B-scan
• 256 Gray Levels
• user definable, DGC curve
• Pre & post processing capabilities.
• Volume, distance and area/ perimeter measurement

• Selectable A-vector for simultaneous A/B display.
• Annotation/arrow placement
• Archiving of at least 150 patients in a single data file with an unlimited number of data files possible.
• Complete IOL calculation capability with IOL data storage.
• B-scan sector angle at least 55°
• Standard Accessories
• Should include :
• Console with 7'' display
• Alphanumeric keyboard
• Trackball
• Foot pedal
• 7&10 MHZ, A-B scan probe
• A scan calibration cylinder
• Probe holders etc.
• Vendors may quote other optional accessories
• 100 & 12.5 MHZ, A-B scan probe

Item No. 62

AUTO – KERATO REFRACTOMETER

Objective Refrectometer mode
Sphere - 25 + 22 D in 0.25 D step (0.12 D step available)
Cylinder 0 to ± 8 D in step 0.25 D (0.12 D step available)
Axis 1 to 180 in 1 and 5 step
Minimum pupil diameter 2.0 mm
Method of relaxation Automatic fogging
Chart for objective testing Scenic picture
Cornial curvature mode
Cornial curvature radius 0.01 mm
Refrection index 1.3375
Corneal refrection 67.5 D – 33.75 D
Corneal astigmation 0.12/0.25D
Corneal astigmation axial angle 1 – 180
Measuring area 3 mm with 7.7 mm radius
Measuring step
Corneal curvature radius 0.01 mm
Cornial refrection 0.12/0.25 D
Corneal astigmation 0.12/0.25 D
Corneal axis angel 1 / 5
Others
PD measurement 85 mm maxi in 1 mm step
Measuring start Auto start and manual
Corneal diameter measurement Yes
Pupil diameter Range 2 – 13 mm/step 0.25 mm
Measurement display TV monitor screen
Measurement recording Built in printer (upto 10 measurements each eye can be stored in memory)
Alignment Screen Display
Vertex distance 0, 12.0 & 13.75 mm (selective)
Energy saving Automatic switch off when left unused after 10 min
IOL Special IOL switch to adjust to circumstances of IOL wearers
Power supply 100, 120, 220, 240 V
Output RS – 232 C

The following requirements must be met.
Refractive power :- -18d to + 18 d (sph.)
- 8d to + 8 d (cyl)
Keratometery power : k1, k2: 5.5 to 10 mm
cyl: -10d to + 10d
ax: 0 to 180 degree
Minimum pupil diameter : 2.9 mm
Printed data : refractive power
corneal curvature
i.p.d
c.l.data
Motorized instrument stand
Practice eye
Contact lens holder

Item No. 63

Phaco Emulsification Machine

1. The phaco system should have both peristaltic and Venturi pump.
2. It should be possible during surgery to switch over from peristaltic to venture mode or vice versa instantaneously.
3. Titanium and ultra light 6 Crystal Phaco handpiece should be quoted having frequency range between 25KHz and 35 KHz.- Four phaco handpieces to be quoted
4. Power to be varied between 1 to 100% in steps of 1%
5. Unit must have programmable burst mode with burst duration to be varied between 25 mSecond to 450 m second
6. Unit should have programmable pulse mode with maximum pulse frequency of 40 Hz. Also pulse duration to
be adjusted between 0.50 to 1500 mSecond.
7. Unit must have Cool Micropulse Phaco and Co-Axial Microincision Phaco Facility
8. Unit should have 3 phaco memories (Phaco1, Phaco 2 and phaco3).
9. I/A System (Peristaltic)should have max vacuum of 600mm Hg and Aspiration flow rate of 50 ml/min
10. I/A System (Venturi) should have max vacuum of 600 mmHg
11. 9 nos. Autoclavable cassette to be supplied.
12. Reflux – Either through Pump or Bottle
13. Autoclavable Straight Phaco Tips – 15 Degree, 30 Degree – 4 nos. each
14. Autoclavable Bent Phaco tip – 30 Degree – 4nos.
15. Irrigation Sleeves for above tips – 10 nos.
16. Autoclavable Cool Phaco Tip 30 degree with incision size of 1.6 and 2.2 mm - 2 nos. each AND corresponding sleeves- 5 nos each
17. I/A Bimanual – 2no.
18. I/A coaxial with straight and bent tip - 1 set
19. R.F.Capsulotomy Tip-1 no.
20. Test Chamber – 5 no and Irrigation Sleeve – 10 nos.
21. Serilisation Tray – 4nos.
22. Diathermy handpiece along with Bipolar forceps to be quoted
23. Unit must have Dual Linear Pedal with Complete programmability. Should provide function switching, pump
switching and bottle height control.
24. Unit must have memory for minimum 30 surgeon program
25. Integrated motorized I/V pole to be supplied.
26. Vitrectomy Cutter (20G): 12 Electric cutter with a motor to be quoted .Cuts rate to be more than 1000Cuts/Minute

27. Pneumatic Cutter (20G) – 20 Pneumatic cutter to be quoted . Cut rate to be more than 2500 cuts/minute
28. Posterior Vitrectomy – Dual linaer Vitrectomy
29. Metal halide light with dual output
30. Single cut mode
31. Pars Plana Tip
32. Simultaneous connection of 3 Vitrectomy instruments
33. Endo Diathermy tip – 20G
34. Air Delivery Line, Silicon application set, Infusion terminus and Endo illuminaors for 20G posterior vitrectomy
-20 nos. each to be quoted
35. 23 G Posterior Vitrectomy accessories – Endo Illuminators, Pars Plana Microincision set – 20 nos to be quoted

Item No. 64

SLIT LAMP

Haag - Streit type Slit lamp
Galilean converging binocular
Magnification variable 5-step, range 6x - 40x
Eyepieces 12.5x
Field of view 44 to 6
Interpupillary distance 48.5 to 80 mm
Slit length 0.2 to 12 mm
Slit width 0 - 12 mm
Filters cobalt blue, red-free, grey & heat absorbing
Slit rotation 0o - 180o
Vertical Tilting Slit 0o to 20o
Working distance 80 mm
Fixation point luminous flexible red diode
Chin rest height adjustable 70 mm
Goldmann type Applanation tonometer
Digital camera attachment with hardware & software for image processing and storage

Item No. 65

REFRIGERATOR:2000Lts

Laboratory refrigerator,lockable with temperature monitoring

- Capacity-2000ltrs
- Explosion_proof interior
- Anti spark protection
- Audio-visual alarm
- Temperature setting range:0 to 10 oC
- Key controlled on/off
- Key controlled door opening
- Adjustable floor stand
- Low noise,automatic defrosting,Freon free

Item No. 66
Refrigerator Under couch_300Ltr. Low Height Refrigerator to be kept under the nursing table/desk. Maximum height should not be more than 2.5 feet. Required for storage of essential drugs,kits,reagents,etc Front opening. Single well insulated door --Door bins for extra storage --Convenient 2-Litre Bottle Storage --Study Slide Out Adjustable Shelf -Sparate Chiller Compartment for Short Term Storage -Space Saving Flush Back Design -Recessed/Integrated Door Handle -Net Capacity 4.4cu ft -Height-32” Width-20” -Depth-20” Carton Width-22” -Carton Depth-22” -Manual Defrost -Power-220 V /50Hz

Item No. 67
DANGEROUS DRUGS CABINETS • Wall mounted or fixed • Heavy steel with lock in accordance with misuse of drugs regulation built-in audible alarm with battery back-up adjustable shelf. • Dimension (WxDxH): 800 X 400 X 1000 mm (approx)

Item No. 68
Microscope binocular with illumination and photography Binocular for bright field,dark field,phase contrast and fluorescence application Microscopic basic stand with 30W Transmitted light illumination. Coaxial double knob focusing Lift approx. 20mm, 5-fold revolving nosepiece, fixed. Objective condenser height displacement with rack and pinion and right/left. Control, Condensor holder with dovetail and centering device for interchangeable condensers. Transmitted light illumination with collector and 12V 30W halogen lamp, incorporated field diaphragm,removable for mirror adaptation. Supply unit for the 12Vx30Wlamp,incorporated and regulating. Mechanical stage for right hand operation, without object holder, fixed mounted to the stage holder. Scanning area 76 x 52 mm; Spare Halogen lamp 12V /30 W

Lamp housing with 30 W lamp complete.
Lamp source : 220 V/ 50 Hz.

Illuminator for incident fluorescence, for 2 filter systems;
Blue filter dark stop commutable; light trap to avoid external light.

Filter system for blue excitation.

Tube trinocular with fixed photo tube, tube lens 00/1x, 30 degree inclination, automatic constant sharpness at eye width from 55 to 75 mm; beam splitter for camera.

Object holder for 2 specimens for mechanical stage.
Universal Condenser.
Dust cover
Objective 5 x 0.12
Objective 10 x 0.25
Objective 40 x 0.65
Objective 100 x 1.25 Oil immersion
10 ml Immersion oil
Pair of eyepieces 10 x /25
Power supply : 240 V / 50 Hz

- **All lenses and optics should be imported**

Compatible and appropriate Hi-quality Digital Camera (12 Megapixel or more) along with couplers, all connecting cables, computer connectivity; and should be quoted separately.

or

Microscope Binocular with illumination

Binocular for bright-field, dark field, phase contrast and fluorescence application
Microscope basic stand with 30W.
Transmitted light illumination. Coaxial double Knob focusing.
Lift approx. 20mm, 5-fold revolving nosepiece, fixed.
Objective condenser height displacement with rack and pinion and right/left.
Control, Condenser holder with dovetail and centering device for interchangeable condensers
Transmitted light illumination with collector and 12V 30W halogen lamp, incorporated field diaphragm, removable for mirror adaption. Supply unit for the 12 V / 30W lamp, incorporated and regulating.
Mechanical stage for right hand operation, without object holder, fixed mounted to the stage holder.
Scanning area 76 x 52 mm;
Spare Halogen lamp 12 V / 30 W
Lamp housing with 30 W lamp complete
Lamp source : 220 V / 50 Hz.

Illuminator for incident fluorescence, for 2 filter systems;
Blue filter dark stop commutable; light trap to avoid external light.

Filter system for blue excitation.

Tube trinocular with fixed photo tube, tube lens 00/1x, 30 deg. inclination, automatic constant sharpness at eye width from 55 to 75 mm; beam splitter for camera.

Object holder for 2 specimens for mechanical stage.

Universal Condenser.
Dust cover
Objective 5 x 0.12
Objective 10 x 0.25
Objective 40 x 0.65
Objective 100 x 1.25 Oil immersion
10 ml Immersion oil
Pair of eyepieces 10 x /20
Power supply : 240 V / 50 Hz

- **All lenses and optics should be imported.**

GENERAL TECHNICAL SPECIFICATIONS

GENERAL POINTS:

1. Warranty:

   a) Comprehensive Warranty as stated in GCC clause No. 15 (in Section – IV) for complete equipment (including X ray tubes, HT Cable, Probes, Electrodes, Detectors, Batteries for UPS, other vacuumatic parts wherever applicable) and Turnkey Work from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/ Dispensaries/ Institute/ Medical College.
   b) 98% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.
   c) All software updates should be provided free of cost during Warranty period.

2. After Sales Service:

   a) 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.

   b) 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.

3. Training:

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

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

   a) **The cost of Annual 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 **to be quoted for next 5 years on yearly basis** for complete equipment (including X ray tubes, HT Cable, Probes, Electrodes, Detectors, Batteries for UPS, other vacuumatic parts wherever applicable) and Turnkey (if any). The supplier shall visit each consignee site as recommended in the manufacturer's technical/ service /operational manual, but at least once in six months during the CMC period
   b) The cost of CMC to be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
   c) Cost of CMC will be added for Ranking/Evaluation purpose.
   d) The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by end user on receipt of bank guarantee for 2.5 % of the cost of the equipment as per Section XV valid till 2 months after expiry of entire CMC period.
   e) There will be 98% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
   f) During CMC period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
   g) All software updates should be provided free of cost during CMC.

h) Failure of the above [4. e) to 4. g)] by the supplier, may lead to the forfeiture of the Bank Guarantee for Annual CMC.
i) The payment of CMC will be made as stipulated in GCC Clause 21.

5. Turnkey:

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

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

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

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. Email ID
   d. telephone number
   e. 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

01. The Tenderer must be a Manufacturer or its authorized Agent.

02. (a) The Manufacturer should have supplied and installed in last **Five** years from the date of Tender Opening, atleast 100% of the quoted quantity of the similar equipment meeting major specification parameters which is functoning satisfactorily. The foreign Manufacturer satisfying the above criteria should also have supplied and installed in last **Five** years from the date of Tender Opening, at least 50% (or one No. where the schedule of requirement is one no.) of quoted quantity of similar model which is functoning satisfactorily any where outside the country of manufacture.

02. (b) The Tenderers quoting as authorized representative of the manufacturer meeting the above criteria 02 (a) should have supplied and installed in last **Five** years from the date of Tender Opening, atleast 50% (or one No. where the schedule of requirement is one no.) of the quoted quantity of similar equipment which is functoning satisfactorily, any where in India of the same manufacturer.

Note:

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

   The manufacturer as well as the Tenderer/ Indian Agent shall furnish Satisfactory Performance Certificate in respect of above, duly translated in English and duly notarized, alongwith the tender. The performance certificate should be in accordance with the requirement of clause 2 (a) / 2 (b) as stated above.

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

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

4. 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 & Time of opening: _____

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 of ordered goods and services	Quantity of ordered goods	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	9

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 duly notarised certification authenticating the correctness of the information furnished. If at any time, information furnished is proved to be false or incorrect, the earnest money and or performance security furnished will be forfeited. Such certificates from a third party or middleman other than actual end user will not be accepted. The satisfactory performance implies working satisfactorily without any complaint since the date of installation, commissioning & handing over to the end user as per the standard format enclosed.

Section – X
TENDER FORM

Date_____

To,
Head (P & CD)
HLL Lifecare Limited
Procurement and Consultancy Division
B-14A, 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.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

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

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

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

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

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

(Signature with date)

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

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

1	2	3	4	5							6
				Price per unit (Rs.)							
Item Sl. No.	Brief Description of Goods (with make & model)	Country of Origin	Quantity (Nos.)	Ex - factory/ Ex - warehouse /Ex-showroom /Off - the shelf (a)	Excise Duty (if any) [%age & value] (b)	Sales Tax/ VAT (if any) [%age & value] (c)	Transportation, loading/ unloading and Incidental costs till consignee's site (d)	Insurance charges for a period including 3 months beyond the date of delivery (e)	Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site (f)	Unit Price (at Consignee Site) basis (g) =a+b+c+d+e+f	Total Price (at Consignee Site) basis (Rs.) 4 x 5(g)

Total Tender price in Rupees: _____

In words: _____

Note: -

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

Name_____

Business Address_____

Place: _____ Signature of Tenderer_____

Date: _____ Seal of the Tenderer_____

B) PRICE SCHEDULE FOR GOODS TO BE IMPORTED FROM ABROAD

1	2	3	4	5										
				Price per unit (Currency)										
Item Sl. No.	Brief Description of Goods (with make & model)	Country of Origin	Quantity (Nos.)	Gross FOB price at sea/air port of Lading (inclusive of Agency Commission)	Amount and percentage of Agency Commission **	Net FOB (excluding Agency Commission) (a-b)	Insurance & Freight	Net CIP by Air/ Sea at the port of entry (c+d)	Custom Duty amount as % of Net CIP (amount with CDEC as applicable) **	Custom Clearance & Handling Charges **	Loading/ Unloading, inland transportation, insurance as per Clause 11 of GCC & incidental cost till consignee's site **	Installation commissioning , supervision. Demonstration & training at the consignee's site **	Unit price on DDP basis at consignee's site	
													In foreign currency	In Indian Rupees
				(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	=(e)	=(b+f+g+h+i)

** to be quoted in Indian Currency

Total price at Consignee's site

(A) In foreign currency : column (4 x e)_____ (In figures and words) plus

** (B) In Indian Rupees : column 4 x (b+f+g+h+i) Rs_____(In figures and words)

Note: -

1. The Tenderer will be fully responsible for the safe arrival of the goods at the consignee site in good condition as per terms of contract.
2. The bidders break up of prices under various columns is for comparison of prices up to delivery of goods at consignee's site for tender evaluation.
3. The quoted price should be supported with original proforma invoice from the foreign manufacturers. The proforma invoice should indicate the percentage of agency commission included in the FOB prices. Indian Agent to be paid in Indian Currency.
4. All the components of the DDP price will be paid by the tenderer. The purchaser will make the payment of DDP price after receipt of goods at consignee's site in good condition as per payment terms in the contract.
5. The prices quoted in foreign currency in column (e) shall be converted in Rupees at the selling rate of exchange applicable on the date of tender opening .The customs duty amount so worked out as percentage of net CIP value in rupees will be taken for evaluation and comparison of tenders
6. The charges for Annual CMC after warranty shall be quoted separately as per Section-XI – Price Schedule C

Name_____

Business address_____

Place:_____

Signature of Tenderer_____

Date:_____

Seal of Tenderer_____

C) PRICE SCHEDULE FOR COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD

1	2	3	4					5
Item Sl. No.	Brief Description of the Goods	Quantity (Nos.)	Comprehensive Maintenance Contract Cost for Each Unit year wise*.					Total Comprehensive Maintenance Contract Cost for 5 (or as specified) Years [3 x (4a+4b+4c+4d+4e)]
			1st	2nd	3rd	4th	5th	
			a	b	c	d	e	

* After completion of Warranty period

NOTE:-

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

Name_____

Business Address_____

Place: _____ Signature of Tenderer_____

Date: _____ Seal of the Tenderer_____

D) PRICE SCHEDULE FOR TURNKEY

Item Sl. No.	BRIEF TURNKEY DESCRIPTION OF GOODS	CONSIGNEE CODE	Turnkey price

Note: -

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

Name_____

Business Address_____

Place: _____ Signature of Tenderer_____

Date: _____ Seal of the Tenderer_____

SECTION – XII
QUESTIONNAIRE

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

1. The tenderer should furnish specific answers (alongwith mention of relevant page nos. of tender) to all the questions/issues mentioned in the Checklist. In case a question/issue does not apply to a tenderer, the same should be answered with the remark "not applicable"

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

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

SECTION – XIV
MANUFACTURER'S AUTHORISATION FORM

To,

Head (P & CD)
HLL Lifecare Limited
Procurement and Consultancy Division
B-14A, 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 further confirm that no supplier or firm or individual other than Messrs. _____ (*name and address of the above agent*) is authorised to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also hereby extend our full warranty, CMC as applicable as per clause 15 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

Yours faithfully,

[*Signature with date, name and designation*]
for and on behalf of Messrs_____

[*Name & address of the manufacturers*]

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

SECTION – XV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/ CMC SECURITY

To
Head of Hospital/Institute/Medical College of ESIC

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 remain valid till 2 (two) months beyond the warranty period, i.e up to ---------- (indicate date)

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

SECTION – XVI
CONTRACT FORM - A

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

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

Contract No_____ dated_____

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

1. Name & address of the Supplier: _____
2. Purchaser's TE document No_____ dated_____ and subsequent Amendment No_____, dated_____ (if any), issued by the purchaser
3. Supplier's Tender No_____ dated_____ and subsequent communication(s) No_____ dated _____ (if any), exchanged between the supplier and the purchaser in connection with this tender.
4. In addition to this Contract Form, the following documents etc, which are included in the documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:

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

   Note : The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under clause 1 of Section II – 'General Instructions to Tenderers' of the Purchaser's TE document shall also apply to this contract.
5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:
   (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

Item Sl. 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
(vii) Warranty clause
(viii) Payment terms
(ix) 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 COMPREHENSIVE MAINTENANCE CONTRACT

Comprehensive Maintenance Contract No._____dated_____
Between

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

(Name & Address of the Supplier)

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

In continuation to the above referred contract

a) The Contract of Comprehensive Maintenance is hereby concluded as under: -

1	2	3	4					5
Item Sl. No.	**BRIEF DESCRIPTION OF GOODS**	**Quantity (Nos.)**	**Comprehensive Maintenance Contract Cost for Each Unit year wise*.**					**Total Comprehensive Maintenance Contract Cost for 5 (or as specified) Years [3 x (4a+4b+4c+4d+4e)]**
			1st	**2nd**	**3rd**	**4th**	**5th**	
			a	**b**	**c**	**d**	**e**	

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

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

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

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

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

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

g) The bank guarantee valid till _____ [(fill the date) 2 months after expiry of entire CMC period] for an amount of Rs. _____ [(fill amount) equivalent to 2.5 % of the cost of the equipment as per contract] shall be furnished in the prescribed format given in

Section XV of the TE document, along with the signed copy of CMC within a period of 21 (twenty one) days of issue of CMC failing which the proceeds of Performance Security shall be payable to the Purchaser/Consignee.

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

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

j) **Paying authority:** _____ (name of the consignee i.e. Hospital/ Institute /Medical College's authorised official)

_____

(Signature, name and address of Hospital/Institute/Medical College's authorised official)
For and on behalf of_____

Received and accepted this contract

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

(Seal of the supplier)

Date: _____

Place: _____

SECTION – XVII

CONSIGNEE RECEIPT CERTIFICATE
(To be given by consignee's authorized representative)

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

1) Contract No. & date :_____

2) Supplier's Name :_____

3) Consignee's Name & Address with telephone No. & Fax No. : _____

4) Name of the item supplied :_____

5) Quantity Supplied :_____

6) Date of Receipt by the Consignee :_____

7) Name and designation of Authorized Representative of Consignee :_____

8) Signature of Authorized Representative of Consignee with date :_____

9) Seal of the Consignee :_____

SECTION – XVIII
Proforma of Final Acceptance Certificate by the Consignee

No _____ Date_____

To
M/s_____
_____
_____

Subject: Certificate of commissioning of equipment/plant.

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

(a) Contract No_____ dated_____

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

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

(d) Quantity:_____

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

(f) Name of the vessel/ Transporter: _____
(g) Name of the Consignee: _____
(h) Date of commissioning and proving test: _____

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

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

The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment(s)/plant(s).
The supplier has fulfilled its contractual obligations satisfactorily ## or
The supplier has failed to fulfil its contractual obligations with regard to the following:
He has not adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specifications'.
He has not supervised the commissioning of the equipment(s)/plant(s)in time, i.e. within the period specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).
The supplier as specified in the contract has not done training of personnel.

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

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

Signature
Name:
Designation with stamp

Explanatory notes for filling up the certificate:

- He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.
- 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).
- Training of personnel has been done by the supplier as specified in the contract
- 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

DETAILS OF SHIPPING ARRANGEMENT FOR LINER CARGOES IN RESPECT OF C&F/CIF/TURNKEY/F.O.R CONTRACTS FOR IMPORTS

1. SHIPMENT FROM PORTS OF U.K INCLUDING NORTHERN IRELAND (ALSO EIRE), FROM THE NORTH CONTINENT OF EUROPE (GERMANY, HOLLAND, BELGIUM, FRANCE, NORWAY, SWEDEN, DENMARK, FINLAND AND PORTS ON THE CONTINENTAL SEABOARD OF MEDITERRANIAN (I.E. FRENCH WESTERN ITALIAN PORTS), TO PORTS IN INDIA.

   The Seller should arrange shipment of the goods by vessels belonging to the member lines of the India-Pakistan-Bangladesh Conference. If the Seller finds that the space on the 'Conference Lines' vessels is not available for any specific shipment, he should take up with India-Pakistan-Bangladesh Conference. Conferity House, East Grinstead, Sussex (UK), for providing shipping space and also inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

   The Seller should arrange shipment through the Government of India's Forwarding Agents, M/s Schenker & Co., 2000-Hamburg (Cable: SCHENKER CO., HAMBURG) OR obtain a certificate from them to the effect that shipment has been arranged in accordance with instructions of the Ministry of Surface Transport, (TRANSCHART), New Delhi.

2. SHIPMENT FORM PORTS OF U.K. INCLUDING NORTHERN

   Goods under this contract would be shipped by the national shipping companies of the Contracting Parties operating bilateral shipping service and vessels under the flag of third countries in accordance with the Agreement between the Government of German Democratic Republic and the Government of the Republic of India in the Field of Merchant Shipping signed on 9.1.1979, as amended up-to-date.

3. SHIPMENT FROM ADRIATIC PORTS OF EASTERN ITALY AND YUGOSLAVIA

   The seller should arrange shipment of the goods by vessels belonging to the following Indian member lines;

   1. The Shipping Purchaser of India Ltd.
   2. The Scindia Steam Navigation Co., Ltd
   3. India Steamship Co., Ltd

   For the purpose of ascertaining the availability of suitable Indian vessels and granting dispensation in the event of their non-availability, the Seller should give adequate notice about the readiness of each consignment from time to time at least six weeks in advance of the required position to M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) and also endorse a copy thereof to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)
   The seller should arrange shipment through the Government of India's Forwarding Agents M/s Schenker & Co. 2000 HAMBURG (Cable: SCHENKER CO., HAMBURG) or obtain certificate from them to the effect that shipment has been arranged in accordance with the instructions of the Ministry of Surface Transport, (TRANSCHART), New Delhi.

4. SHIPMENT FROM POLAND & CZECHOSLOVAKIA

   (i) IMPORTS FROM POLAND

Shipment under this contract would be made by the National flag lines of the two parties and vessels of the third flag conference lines, in accordance with the agreement between the Govt. of the Republic of India and the Govt. of the Polish People's Republic regarding Shipping Co-operation dated 27.6.1960 as amended up-to-date.

(ii) IMPORTS FROM CZECHOSLOVAKIA

Goods under this contract would be signed by the National flag lines of the two parties and vessels of the third flag conference lines, in accordance with the Agreement Co-operation in shipping between India and Czechoslovakia signed on 3.11.1978 and ratified on 19.12.1979, as amended up-to-date.
Shipping arrangement should be made by the Sellers in consultation with Resident Representative of the Indian Shipping Lines in Gdynia, Co., Morska Agencja W. Gdyniul, Pulaskiego 8, P.O. Box 246, Gdynia (Poland) – Telex : MG PL. 054301, Tel.: 207621, to whom details regarding contract number, nature of cargo , quantity, port of lading, discharging, name of Government consignee, expected date of readiness of each consignment etc. should be furnish at least six weeks in advance of the required position, with a copy thereof endorsed to the Shipping Co-ordination Officer, Ministry of Surface Transport, (Chartering Wing), New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

5. SHIPMENT FROM U.S.S.R

Shipment under this contract should be made in accordance with the agreement between the Government of the Republic of India and the Government of U.S.S.R on Merchant Shipping 1976, as amended up-to-date, by vessels of Indo-Soviet shipping Service.

6. SHIPMENT FROM JAPAN

The shipment of goods should be made of India vessels to the maximum extent possible subject to the minimum of 50%.

The Seller should arrange shipment of the goods in consultation with the Embassy of India in Japan, Tokyo to whom details regarding contract number, nature of cargo, quantity, port of loading/discharge, name of Govt. consignee, expected date of readiness of each consignment etc. should be furnished at least six weeks in advance of the required position.

Note: The copies of such contracts are to be endorsed both to the Attached (commercial) embassy of India in Japan, Tokyo, and the shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi.

7. SHIPMENT FROM AUSTRALIA, ALGERIA, BULGARIA, ROMANIA, EGYPY

The Seller shall arrange shipment of the goods by Indian flag vessels to the maximum extent possible subject to a minimum of 50 %. For the purpose of ascertaining the availability of suitable Indian vessels, the seller shall give adequate notice of not less than six weeks about the readiness of each consignment to the Shipping Purchaser of India Ltd., SHIPPING HOUSE, 245, Madame Cama Road, Bombay – 400 021 (CABLE: SHIPINDIA BOMBAY) and also endorse a copy thereof to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

8. SHIPMENT FROM PAKISTAN

The shipment of cargoes should be made by Indian vessels to the maximum extent possible subject to a minimum of 50 %.

Shipment arrangement should be made by the sellers in consultation with M/s Mogul Line Ltd., 16-Bank Street, Fort, Bombay – 400023 (Cable: MOGUL BOMBAY: Telex: 011 – 4049 MOGUL), to whom, details regarding contract number, nature of cargo, quantity, port of lading discharging, name of government consignee, expected date of readiness of each consignment etc. should be furnish at least six weeks in advance of the required position, with a copy thereof endorsed to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

9. SHIPMENT FROM U.S ATLANTIC & GULF PORTS

The Seller should arrange shipment of the goods by vessels belonging to the member lines of the India – Pakistan – Bangladesh – Ceylon and Burma Outward Freight Conference. If the Seller finds that the space of the 'Conference Lines' vessels is not available for any specific shipment he should take up with India – Pakistan- Bangladesh – Ceylon and Burma Outward Freight Conference, 19, Rector Street, New York, N.Y. 10006 USA, for providing shipping space and also inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159)

10. SHIPMENT FROM ST. LAWRENCE AN EASTERN CANADIAN PORTS

The Seller should arrange shipment of the goods by vessels belonging to the following shipping lines;

1. The shipping Purchaser of India Ltd.
2. The Scindia Steam Navigation Co., Ltd

If the Seller finds that the space in the vessels of these Lines is not available for any particular consignments, he should inform the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159) immediately so that dispensation from the shipping lines concerned to use alternative lifting may be sought.

11. SHIPMENT FROM WEST COAST PORTS OF U.S.S CANADA AND OTHER AREAS NOT SPECIFICALLY MENTIONED ABOVE

The Seller should arrange shipment of the goods by Indian vessels to the maximum extent possible subject to a minimum of 50 %. For the purpose of ascertaining the availability of suitable Indian vessels and granting dispensation in the event of their non-availability, the Seller should furnish the details regarding contract number, nature of cargo, quantity, port of lading, discharging, name of government consignee, expected date of readiness of each consignment etc. to the Shipping Co-ordination Officer, Ministry of Surface Transport, New Delhi, (Cable: TRANSCHART, NEW DELHI, Telex: VAHAN IN – 031 – 61157, 61158, 61159) at least six weeks in advance of the required position.

B) BILLS OF LADING:

(i) C.I.F./C&F/TURNKEY SHIPMENTS

The Bills of lading should be drawn to indicate Shipper and 'Consignee' as under:

SHIPPER: The C.I.F (C&F)/TURNKEY SUPPLIERS concerned.

CONSIGNEE: As per consignee's particulars in the contract (The name an address of the 'Port Consignee' and 'Ultimate' both should be indicated).

(ii) F.O.R SHIPMENTS

The Bills of lading should be drawn indicating shipper Consignee as under:

SHIPPER: The F.O.R suppliers Concerned

CONSIGNEE: Supplier's Indian Agent on order

Note:

1. Moreover the name of the 'Purchaser' and 'Ultimate' Consignee should appear in the body of the Bills of Lading as the 'Notify' or as a remark.
2. Two non-negotiable copies of the Bills of Lading indicating the freight amount and discount, if any allowed, should be forwarded to The Shipping Co-ordination Officer, Ministry of surface Transport (Chartering Wing), New Delhi after the shipment of each consignment is effected.
3. The seller should avoid the use of over-aged vessels for the shipment of the goods under the contract and if so used the cost of additional. Insurance, if any, shall be borne by the seller.

SECTION – XX
CHECKLIST

Name of Tenderer:

Name of Manufacturer:

Sl. No.	Activity	Yes/ No/ NA	Page No. in the Tender document	Remarks
1.	Have you enclosed EMD of required amount for the quoted schedules?			
2(a).	Have you enclosed clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications?			
2(b).	In case of Technical deviations in the compliance statement, have you identified and marked the deviations?			
3.	Have you kept validity of 120 days from the Techno Commercial Tender Opening date as per the TE document?			
4(a).	Have you enclosed duly filled Tender Form as per format in Section X?			
4(b).	Have you enclosed Power of Attorney/ Authorisation in favour of the signatory?			
5.	Have you submitted manufacturer's authorization as per Section XIV?			
6.	Have you submitted the certificate of incorporation?			
7(a).	In case of Indian Tenderer, have you furnished Income Tax Account No. as allotted by the Income Tax Department of Government of India?			
7(b).	In case of Foreign Tenderer, have you furnished Income Tax Account No. of your Indian Agent as allotted by the Income Tax Department of Government of India?			

Sl. No.	Activity	Yes/ No/ NA	Page No. in the Tender document	Remarks
8.	Have you intimated the name and full address of your Banker (s) along with your Account Number			
9.	Have you furnished Annual Report (Balance Sheet and Profit & Loss Account) for last three years prior to the date of Tender opening?			
10.	Have you submitted the Quality Control Requirements as per Proforma given in Section VIII of TE document?			
11.	Have you accepted delivery period as per TE document?			
12.	Have you accepted the terms of delivery as per 'DDP at consignee site basis'?			
13.	Have you accepted the warranty/CMC as per TE document?			
14.	Have you accepted all terms and conditions of TE document?			
15.	Have you fully accepted payment terms as per TE document?			
16(a)	Have you submitted prices of goods, turnkey (if any), CMC etc. in the Price Schedule as per Section XI?			
16(b)	Have you submitted satisfactory end user performance certificate as per the Proforma for performance statement in Sec. IX of TE document in respect of all orders?			
17.	Have you submitted copy of the order(s) against the above end user certificate (s)?			
18.	Have you furnished documents establishing your eligibility & qualification criteria as per TE documents?			

N.B.

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

(Signature with date)

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

(Name, address and stamp of the tendering firm)

Section – XXI

Consignee addresses

Consignee Code	Consignee Address	Telephone No.
Noida	Directorate Medical Noida, ESIC Model Hospital Sector 24,Noida-UP	-
Baddi	Medical Superintendent ESIC Hospital Baddi, Himachal Pradesh	--
Bhiwadi	Medical Superintendent ESIC Hospital Bhiwadi, Rajasthan	--
Manesar	Medical Superintendent ESIC Model Hospital Manesar, Haryana	--
Chandigarh	Medical Superintendent ESIC Model Hospital Industrial Area, Phase-II Ram Darbar, Chandigarh-160002	-
Basai	Medical Superintendent ESI Hospital Ring Road, Basaidarapur New Delhi - 110 015	011-25100664
Ludhiana	Medical Superintendent, ESIC Hospital, Ludhiana, Punjab	
Jaipur	Jaipur Medical Supdt ESI Hospital Lakshmi Nagar Ajmer Road Jaipur - 6	2228040 2223579

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