

DOMESTIC TENDER ENQUIRY DOCUMENT

**FOR PURCHASE OF
MEDICAL EQUIPMENT ON BEHALF OF**

DR. BABA SAHEB AMBEDKAR HOSPITAL

**AN INSTITUTE UNDER
DEPARTMENT OF HEALTH & FAMILY WELFARE
GOVT OF NCT OF DELHI**

HLL/PCD/GNCTD/23/BSAH/14-15



BY

HLL LIFECARE LIMITED

(A GOVERNMENT OF INDIA ENTERPRISE)

Procurement & Consultancy Services Division

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SECTION-I

NIT No:HLL/PCD/GNCTD/23/BSAH/14-15

Dated: 26.11.2014

NOTICE INVITING TENDERS (NIT)

1. A) Procurement & Consultancy Services Division of HLL Lifecare Limited, for and on behalf of Dr. Baba Saheb Ambedkar Hospital, an Institute under Department of Health & Family Welfare, Govt. of NCT of Delhi, invites online eTenders, from eligible and qualified tenderers for supply of following Laboratory Equipment:

Sl. No.	Tender ID In GNCTD Portal	Short Description	Qty.	Tender Fees (Rs.)	EMD Amount (Rs.)
1	2014_HFWD_71016_1	Items for Department of Anatomy	1 set	500	9,000
2	2014_HFWD_71016_2	Items for Department of Biochemistry	1 set	500	78,000
3	2014_HFWD_71016_3	Items for Department of Community Medicine	1 set	500	6,500
4	2014_HFWD_71016_4	Items for Department of Forensic Medicine	1 set	500	10,000
5	2014_HFWD_71016_5	Items for Department of Microbiology	1 set	500	10,000
6	2014_HFWD_71016_6	Items for Department of Pathology	1 set	500	30,000
7	2014_HFWD_71016_7	Items for Department of Pharmacology	1 set	500	28,000
8	2014_HFWD_71016_8	Items for Department of Physiology	1 set	500	18,000
9	2014_HFWD_71016_9	Glassware & Lab items	1 set	500	4,000

B) Time schedule for all the Tender IDs in this NIT:

Sl No	Description	Schedule
i.	Dates of sale of tender enquiry documents	25.11.2014 to 29.12.2014 (10:00 AM to 04:00 PM IST)
ii.	Place of sale of Tender Enquiry Documents	HLL Lifecare Limited Procurement & Consultancy Services Division, B-14 A, Sector-62, Noida-201 307
iii.	Pre Tender Meeting Date & Time	05.12.2014, 11:00 hrs IST
iv.	Pre Tender Meeting Venue	Same as sl. (ii) above
v.	Date & time of closing of online tender in GNCTD Portal	29.12.2014, 06:00 PM IST
vi.	Closing date & time for submission of physical Tenders	30.12.2014, 01:30 PM IST
vii.	Date & time of opening of tender	30.12.2014, 02:00 PM IST
viii.	Venue of submission of Physical Tender/ Opening of Techno Commercial Tender	Same as sl. (ii) above

2. Interested tenderers may obtain further information about this requirement from this office inviting the tenders.
3. The prospective bidders who have not registered can register with E-procurement system of NIC by paying necessary registration charges. The bidders may prepare a banker cheque/Draft in favour of Delhi E-governance society and deposit it at E-procurement help desk room. The details of payment can be obtained from help desk.

In order to submit the bids electronically bidders are required to have type-II Digital Signature Certificate. Digital Signature can be obtained from any of the certifying agency.

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

- (i) Tender Fee and EMD
 - (ii) Pre-qualification and Technical compliance as per following documents:
 - a) Tender Form as per section X
 - b) Copy of PAN.
 - c) Certificate of Incorporation or Declaration being a proprietary firm.
 - d) Affidavit as per Section XIX
 - e) Technical Bid along with clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications in the tender enquiry
 - (iii) Price Bid (Only online).
4. All prospective tenderers may attend the Pre Tender meeting. For all the above tender IDs, Prebid meeting shall be held at Conference Room of HLL Lifecare Limited, B-14A, Sector -62, Noida, Gautam Budh Nagar, U.P. - 201 307.
 5. To participate in the submission against the tender, it is mandatory for the Applicants to get digital signature and get themselves registered with e-tendering system of various hospitals under Govt. of NCT of Delhi.
 6. Tenderer may download the tender enquiry documents from the web site www.lifecarehll.com or www.govtprocurement.delhi.gov.in and submit its tender online after logging in to their user ID at www.govtprocurement.delhi.gov.in.
 7. Tenderers shall ensure that their tenders, complete in all respects, are submitted **online and desired hard copies in original** dropped in the Tender Box located at **HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh** on or before the closing date and time indicated above, failing which the tenders will be treated as late and rejected.
 8. In the event of any of the above mentioned dates being declared as a holiday /closed day for the purchase organisation, the physical form of tenders will be received/opened on the next working day at the appointed time.

Head (P&CD)
HLL Lifecare Limited

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GENERAL INSTRUCTIONS TO TENDERERS (GIT)

A. PREAMBLE

1. Definitions and Abbreviations

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

1.2. Definitions:

- (i) "Purchaser" means Department of Health & Family welfare, Govt of NCT of Delhi.
- (ii) "Tender" means Bids / Quotation / Tender received from a Firm / Tenderer / Bidder.
- (iii) "Tenderer" means Bidder/ the Individual or Firm submitting Bids / Quotation / Tender
- (iii) "Supplier" means the individual or the firm supplying the goods and services as incorporated in the contract.
- (iv) "Goods" means the 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/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) "TE Document" means Tender Enquiry Document
- (ii) "NIT" means Notice Inviting Tenders.
- (iii) "GIT" means General Instructions to Tenderers
- (iv) "SIT" means Special Instructions to Tenderers
- (v) "GCC" means General Conditions of Contract

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

2. Introduction

- 2.1 The Purchaser has issued these TE documents for purchase of goods and related services as mentioned in Section – VI – “List of Requirements”, which also indicates, *interalia*, the required delivery schedule, terms and place of delivery.
- 2.2 This section (Section II - “General Instruction 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. Availability of Funds

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

4. Language of Tender

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

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

5. Eligible Tenderers

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 – Deleted
- Section IX – Deleted
- Section X – Tender Form
- Section XI – Price Schedule
- Section XII – Questionnaire
- Section XIII – Bank Guarantee Form for EMD
- Section XIV – Deleted
- Section XV – Deleted

- Section XVI – Deleted
- Section XVII – Deleted
- Section XVIII – Proforma of Final Acceptance Certificate by the consignee
- Section XIX – Affidavit
- Section XX – Check List for the Tenderers
- Section XXI – Consignee List

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

9. Amendments to TE documents

- 9.1 At any time prior to the deadline for submission of tenders, the purchaser may, for any reason deemed fit by it, modify the TE documents by issuing suitable amendment(s) to it.
- 9.2 Such an amendment will be notified in the referred websites only.
- 9.3 In order to provide reasonable time to the prospective tenderers to take necessary action in preparing their tenders as per the amendment, the purchaser may, at its discretion extend the deadline for the submission of tenders and other allied time frames, which are linked with that deadline.

10. Clarification of TE documents

- 10.1 A tenderer requiring any clarification or elucidation on any issue of the TE documents may take up the same with the purchaser in writing on or before the pre-bid meeting.
- 10.2 Each prospective Tenderer can attend the Prebid meeting mentioned in para 4 in Section I with maximum 2 persons duly authorized by Tenderer.

C. PREPARATION OF TENDERS

11. Documents Comprising the Tender

- 11.1 The tender shall be submitted online for all the necessary documents and in physical form (with respect to few documents as mentioned in the SIT) in three parts/covers as mentioned below:
- (i) Tender Fee, EMD, Pre-qualification as per checklist section XIX (Both online and physical) and as mentioned in Para A) below.
 - (ii) Technical Bid (Both online and physical)
 - (iii) Price Bid (Only online).

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

A) Techno – Commercial Tender (Un priced Tender)

- i) Earnest money furnished in accordance with GIT clause 19.1 alternatively, documentary evidence as per GIT clause 19.2 for claiming exemption from payment of earnest money.
- ii) Tender Form as per Section X.
- 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) 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.
- v) Certificate of Incorporation.
- vi) Affidavit as per section XIX.

B) Price Tender:

- 1. Prices are to be quoted in the attached Price Bid format online as per the directions on the official website.
- 2. The price should be quoted for the accounting unit indicated on the website.

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

Note:

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

- 11.2 A person signing (manually or digitally) the tender form or any documents forming part of the contract on behalf of another shall be deemed to warrantee that he has authority to bind such other persons and if, on enquiry, it appears that the persons so signing had no authority to do so, the purchaser may, without prejudice to other civil and criminal remedies, cancel the contract and hold the signatory liable for all cost and damages
- 11.3 A tender, which does not fulfil any of the above requirements and/or gives evasive information/reply against any such requirement, shall be liable to be ignored and rejected.
- 11.4 Tender sent by fax/telex/cable/electronically shall be ignored.

12. Tender currencies

- 12.1 The tenderer shall quote only in Indian Rupees.
- 12.2 Tenders, where prices are quoted in any other way shall be treated as non-responsive and rejected.

13 Tender Prices

- 13.1 The Tenderer shall indicate on the Price Schedule provided under Section XI all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. All the columns shown in the price schedule should be filled up as required. If any column does not apply to a tenderer, same should be clarified as "NA" by the tenderer.
- 13.2 **All the items in the tender must be quoted (separate price for each item) by the bidder as the comparison/ranking will be based on the total value (including all taxes & duties and any other charges incurred till Consignee site).**
- 13.3 While filling up the columns of the Price Schedule, the following aspects should be noted for compliance:
- 13.4 For domestic goods or goods of foreign origin located within India, the prices in the corresponding price schedule shall be entered separately in the following manner:
 - a) the price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including all taxes and duties like sales tax, CST VAT, CENVAT, Custom Duty, Excise Duty etc. already paid or payable on the components and raw material used in the

manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;

- b) any sales or other taxes and any duties including excise duty, which will be payable on the goods in India if the contract is awarded;

13.5 Additional information and instruction on Duties and Taxes:

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

13.5.2 Excise Duty:

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

13.5.3 Sales Tax:

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

13.5.4 Octroi Duty and Local Duties & Taxes:

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

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

13.6 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. Deleted

15. Firm Price

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

18. Documents establishing Goods Conformity to TE document.

- 18.1 The tenderer shall provide in its tender the required as well as the relevant documents like technical data, literature, drawings etc. to establish that the goods and services offered in the tender fully conform to the goods and services specified by the purchaser in the TE documents. For this purpose the tenderer shall also provide a clause-by-clause commentary on the technical specifications and other technical details incorporated by the purchaser in the TE documents to establish technical responsiveness of the goods and services offered in its tender.
- 18.2 In case there is any variation and/or deviation between the goods & services prescribed by the purchaser and that offered by the tenderer, the tenderer shall list out the same in a chart form without ambiguity and provide the same along with its tender.
- 18.3 If a tenderer furnishes wrong and/or misleading data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

19. Earnest Money Deposit (EMD)

- 19.1 Pursuant to GIT clauses 8.1 and 11.1A(i) the tenderer shall furnish along with its tender, earnest money for amount as shown in the List of Requirements. The earnest money is required to protect the purchaser against the risk of the tenderer's unwarranted conduct as amplified under sub-clause 19.7 below.
- 19.2 The tenderers who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation, New Delhi for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. In case the tenderer falls in these categories, it should furnish copy of its valid registration details (with DGS&D or NSIC, as the case may be).
- 19.3 The earnest money shall be denominated in Indian Rupees only. The earnest money shall be furnished in one of the following forms:
- i) Account Payee Demand Draft
 - ii) Banker's cheque and
 - iii) Bank Guarantee

- 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. In case of bank guarantee, the same is to be provided from any commercial bank in India as per the format specified under Section XIII in these documents.
- 19.5 The earnest money shall be valid for a period of forty-five (45) days beyond the validity period of the tender. As validity period of Tender as per Clause 20 of GIT is 120 days, the EMD shall be valid for 165 days from Techno – Commercial Tender opening date.
- 19.6 Unsuccessful tenderers' earnest money will be returned to them without any interest, after expiry of the tender validity period, but not later than thirty days after conclusion of the resultant contract. Successful tenderer's earnest money will be returned without any interest, after receipt of performance security from that tenderer.
- 19.7 Earnest Money is required to protect the purchaser against the risk of the Tenderer's conduct, which would warrant the forfeiture of the EMD. Earnest money of a tenderer will be forfeited, if the tenderer withdraws or amends its tender or impairs or derogates from the tender in any respect within the period of validity of its tender or if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The successful tenderer's earnest money will be forfeited without prejudice to other rights of Purchaser if it fails to furnish the required performance security within the specified period.

20. Tender Validity

- 20.1 If not mentioned otherwise in the SIT, the tenders shall remain valid for acceptance for a period of 120 days (One hundred and twenty days) after the date of tender opening prescribed in the TE document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.
- 20.2 In exceptional cases, the tenderers may be requested by the purchaser to extend the validity of their tenders up to a specified period. Such request(s) and responses thereto shall be conveyed by surface mail or by fax/ telex/cable followed by surface mail. The tenderers, who agree to extend the tender validity, are to extend the same without any change or modification of their original tender and they are also to extend the validity period of the EMD accordingly. A tenderer, who may not agree to extend its tender validity after the expiry of the original validity period the EMD furnished by them shall not be forfeited.
- 20.3 In case the day up to which the tenders are to remain valid falls on/ subsequently declared a holiday or closed day for the purchaser, the tender validity shall automatically be extended up to the next working day.

21. Signing and Sealing of Tender

- 21.1 The tenderers shall submit their tenders as per the instructions contained in GIT Clause 11.
- 21.2 Deleted
- 21.3 The original 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.
- 21.4 The tender shall be duly signed at the appropriate places as indicated in the TE documents and all other pages of the tender including printed literature, if any shall be initialled by the same person(s) signing the tender. The tender shall not contain any erasure or overwriting, except as necessary to correct any error made by the tenderer and, if there is any such correction; the same shall be initialled by the person(s) signing the tender.

D. SUBMISSION OF TENDERS

22. Submission of Tenders

- 22.1 The tender shall be submitted online and in physical form (except price bid) in three parts/covers as mentioned below:
- (i) Tender Fee and EMD (**Both online and physical**)
 - (ii) Pre-qualification and Technical compliance as per following documents (**Online submissions for all the documents and physical submission only for affidavit as per point (d) below and original Technical brochures/catalogues against point (e):**
 - a) Tender Form as per section X
 - b) Copy of PAN.
 - c) Certificate of Incorporation or Declaration in case of being a proprietary firm.
 - d) Affidavit as per Section XIX
 - e) Technical Bid along with clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications in the tender enquiry (Both online and physical)
 - (iii) Price Bid (Only online).

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

Unless otherwise specified, the tenderers are to submit its tender online and deposit the physical form of tenders in the tender box kept for this purpose at **HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201 307, Uttar Pradesh.**

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

23. Late Tender

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

24. Alteration and Withdrawal of Tender

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

E. TENDER OPENING

25. Opening of Tenders

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

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

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

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

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

F. SCRUTINY AND EVALUATION OF TENDERS

26. Basic Principle

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

27. Scrutiny of Tenders

- 27.1 The Purchaser will examine the Tenders to determine whether they are complete, whether any computational errors have been made, whether required sureties have been furnished, whether the documents have been properly signed stamped and whether the Tenders are generally in order.
- 27.2 The Purchaser's determination of a Tender's responsiveness is to be based on the contents of the tender itself without recourse to extrinsic evidence
- 27.3 Deleted
- 27.4 The tenders will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the TE document. The tenders, which do not meet the basic requirements, are liable to be treated as non-responsive and will be rejected.
- 27.5 The following are some of the important aspects, for which a tender shall be declared non-responsive during the evaluation and will be ignored;
- (i) The bidder has submitted hard copy of financial bid (only online submission price bids are allowed).

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

28. Minor Infirmary/Irregularity/Non-Conformity

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

29 Discrepancies in Prices

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

30. Discrepancy between original and copies of Tender

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

31. Deleted

32. Deleted

33. Deleted

34. Comparison of Tenders

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.

Individual price for all the items in the tender must be quoted, failing which the tender is liable to be rejected. Comparison/ranking of price bids shall be based on the total tender price (sum total of all the items value) at Consignee Site basis

35. 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.

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

37. Contacting the Purchaser

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

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

G. AWARD OF CONTRACT

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

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

39. Award Criteria

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

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

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

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

41. Notification of Award

41.1 Before expiry of the tender validity period, the purchaser will notify the successful tenderer(s) in writing, by registered / speed post or by 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 fifteen 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. Deleted

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

43.1 Failure of the successful tenderer in providing performance security and / or returning contract copy duly signed in terms of GIT clauses 41 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 namely the Consignee/Tenderers/Suppliers etc to observe the highest standard of ethics during the procurement and execution of such contracts. In pursuance of this policy, the Purchaser: -

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

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

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

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

SECTION - III
SPECIAL INSTRUCTIONS TO TENDERERS
(SIT)

Sl. No.	GIT Clause No.	Topic	SIT Provision	Page No.
A	1 to 7	Preamble	No Change	27
B	8 to 10	TE documents	No Change	27
C	11 to 21	Preparation of Tenders	No Change	27
D	22 to 24	Submission of Tenders	As detailed	27
E	25	Tender Opening	No Change	27
F	26 to 37	Scrutiny and Evaluation of Tenders	No Change	27
G	38 to 45	Award of Contract	No Change	27

The following Special Instructions to Tenderers will apply for this purchase. These special instructions will modify/substitute/supplement the corresponding General Instructions to Tenderers (GIT) incorporated in Section II. The corresponding GIT clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIT and that in the SIT, the provision contained in the SIT shall prevail.

Submission of Tenders

- (i) All the necessary documents as prescribed in the NIT shall be prepared and scanned in different files (in PDF or JPEG format as prescribed) and uploaded for on-line submission of Proposal. However, physical documents as per NIT to be submitted in '**ORIGINAL**' to HLL Lifecare Ltd before the prescribed date & time for submission of physical tender restricted to the following documents only.
 - a) Demand Draft towards Tender Fee in favour of HLL Lifecare Ltd
 - b) EMD in the prescribed format in favour of HLL Lifecare Ltd
 - c) Technical Data Sheet and original technical literature/ Brochure (if any)
 - d) Affidavit as per Section XIX
- (ii) All document(s)/ information(s) other than above including the Financial Proposal (i.e. **FORMAT FOR SUBMISSION OF FINANCIAL PROPOSAL**) should be uploaded **online only** in the prescribed format given in the website. No other mode of submission shall be acceptable.
- (iii) The prospective bidders may **scan the documents in low resolution (75 to 100 DPI)** instead of 200 DPI. The documents may be scanned for further lower resolution (if possible). This would reduce the size of the Cover and would be uploaded faster.
- (iv) The prospective bidders may upload Drawing files, if any, in **“.dwf”** format so that the size of document is less. This is a generic format and all software supports this format.
- (v) At the time of cover content creation, the prospective bidders would have to define the document type as **“.rar”** format.
- (vi) The prospective bidders should be asked to zip all the .dwf files to a .rar file and upload it.

SECTION - IV**GENERAL CONDITIONS OF CONTRACT (GCC)
TABLE OF CLAUSES**

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GENERAL CONDITIONS OF CONTRACT (GCC)

1. Application

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

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

2. Use of contract documents and information

- 2.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract or any provision thereof including any specification, drawing, sample or any information furnished by or on behalf of the purchaser in connection therewith, to any person other than the person(s) employed by the supplier in the performance of the contract emanating from this TE document. Further, any such disclosure to any such employed person shall be made in confidence and only so far as necessary for the purposes of such performance for this contract.
- 2.2 Further, the supplier shall not, without the purchaser's prior written consent, make use of any document or information mentioned in GCC sub-clause 2.1 above except for the sole purpose of performing this contract.
- 2.3 Except the contract issued to the supplier, each and every other document mentioned in GCC sub-clause 2.1 above shall remain the property of the purchaser and, if advised by the purchaser, all copies of all such documents shall be returned to the purchaser on completion of the supplier's performance and obligations under this contract.

3. Patent Rights

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

4. Country of Origin

- 4.1 All goods and services to be supplied and provided for the contract shall have the origin in India or in the countries with which the Government of India has trade relations.
- 4.2 The word "origin" incorporated in this clause means the place from where the goods are mined, cultivated, grown, manufactured, produced or processed or from where the services are arranged.
- 4.3 The country of origin may be specified in the Price Schedule

5. Performance Security

- 5.1 Within fifteen (15) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security to the Purchaser/Consignee for an amount equal to ten per cent (10%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum sixteen (16) months from the date of Notification of Award
- 5.2 The Performance security shall be denominated in Indian Rupees as detailed below:

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

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

6. Technical Specifications and Standards

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

7. Packing and Marking

- 7.1 The packing for the goods to be provided by the supplier should be strong and durable enough to withstand, without limitation, the entire journey during transit including transshipment (if any), rough handling, open storage etc. without any damage, deterioration etc. As and if necessary, the size, weights and volumes of the packing cases shall also take into consideration, the remoteness of the final destination of the goods and availability or otherwise of transport and handling facilities at all points during transit up to final destination as per the contract.
- 7.2 The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and Quality Control Requirements under Sections VII and VIII and in SCC under Section V. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.
- 7.3 Packing instructions:

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

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

8. Inspection, Testing and Quality Control

- 8.1 The purchaser/consignee and/or its nominated representative(s) will inspect the goods after receipt of the same at Consignee's place.
- 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.

9. Terms of Delivery

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

10. Transportation of Goods

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

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

11. Insurance:

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

- i) In case of supply of domestic goods on Consignee site basis, the supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured for an amount equal to 110% of the value of the goods from ware house to ware house (consignee site) on all risk basis. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.
- ii) If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actuals will be reimbursed.

12. Spare parts

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

- a) The spare parts as selected by the Purchaser/Consignee to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and
- b) In case the production of the spare parts is discontinued:
 - i) Sufficient advance notice to the Purchaser/Consignee before such discontinuation to provide adequate time to the purchaser to purchase the required spare parts etc., and
 - ii) 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 consumables and spares for the goods so that the same are used during warranty period.

13. Incidental services

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

- i) Installation & commissioning, Supervision and Demonstration of the goods

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

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

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

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

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

- (i) Four copies of supplier's invoice showing contract number, goods description, quantity, unit price and total amount;
- (ii) Two copies of packing list identifying contents of each package;
- (iii) Insurance Certificate as per GCC Clause 11.

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, manufacturing or workmanship or from any act or omission of the supplier that may develop under normal use of the supplied goods under the conditions prevailing in India.
- 15.2 The **warranty** shall remain valid for a minimum period of **one year/standard warranty of manufacturer**, after the goods or any portion thereof as the case may be, have been delivered, installed and commissioned at the final destination.
- 15.3 In case of any claim arising out of this warranty, the Purchaser/Consignee shall promptly notify the same in writing to the supplier. The period of the warranty will be as per G.C.C clause number 15.2 above irrespective of any other period mentioned elsewhere in the bidding documents.
- 15.4 Upon receipt of such notice, the supplier shall, within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser for such replaced parts/goods thereafter. The penalty clause for non-rectification will be applicable as per tender conditions
- 15.5 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be extended to a further period of twelve (12) months from the date such rectified / replaced goods starts functioning to the satisfaction of the purchaser.
- 15.6 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.

16. Assignment

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. Deleted

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.

100% 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) Two copies of packing list identifying contents of each package;
- (iii) Inspection certificate issued by the nominated Inspection agency, if any.
- (iv) Final Acceptance Certificate' issued by the Consignee as per Section XVIII
- (v) Insurance Certificate as per GCC Clause 11

- 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 The supplier shall send its claim for payment in writing, when contractually due, along with relevant documents etc., duly signed with date, to respective consignees.
- 21.5 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.
- 21.6 While claiming reimbursement of duties, taxes etc. (like sales tax, excise 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.
- 21.7 In case where the supplier is not in a position to submit its bill for the balance payment for want of receipted copies of Inspection Note from the consignee and the consignee has not complained about the non-receipt, shortage, or defects in the supplies made, balance amount will be paid by the paying authority without consignee's receipt certificate after three months from the date of the preceding part payment for the goods in question, subject to the following conditions:
- (a) The supplier will make good any defect or deficiency that the consignee (s) may report within six months from the date of despatch of goods.
 - (b) Delay in supplies, if any, has been regularized.
 - (c) The contract price where it is subject to variation has been finalized.
 - (d) The supplier furnishes the following undertakings:

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

22. Delivery

- 22.1 The supplier shall deliver the goods and perform the services under the contract within the time schedule specified by the Purchaser/Consignee in the List of Requirements and as incorporated in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed not later than the date (s) as specified in the contract.
- 22.2 Subject to the provision under GCC clause 26, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:
- (i) imposition of liquidated damages,
 - (ii) forfeiture of its performance security and
 - (iii) termination of the contract for default.
- 22.3 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/Consignee in writing about the same and its likely duration and make a request to the Purchaser/Consignee for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/Consignee shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

- 22.4 When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, inter alia contain the following conditions:
- (a) The Purchaser/Consignee shall recover from the supplier, under the provisions of the clause 23 of the General Conditions of Contract, liquidated damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.
 - (b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or on account of any other tax or duty which may be levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.
 - (c) But nevertheless, the Purchaser/Consignee shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty, excise duty, sales tax/ VAT, Service Tax and Works Contract Tax or any other duty or tax or levy or on account of any other grounds, which takes place after the expiry of the date of delivery stipulated in the contract.
- 22.5 The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the Purchaser/Consignee for extension of delivery period and obtain the same before despatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and / or any other expense related to such supply shall lie against the purchaser.
- 22.6 Passing of Property:
- a) The property in the goods shall not pass to the purchaser unless and until the goods have been delivered to the consignee in accordance with the conditions of the contract.
 - b) Where there is a contract for sale of specific goods and the supplier is bound to do something to the goods for the purpose of putting them into a deliverable state the property does not pass until such thing is done.
 - c) Unless otherwise agreed, the goods remain at the supplier's risk until the property therein is transferred to the purchaser.

23. Liquidated damages

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

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

24. Termination for default

- 24.1 The Purchaser/Consignee, without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee), may, by written notice of default sent to the supplier, terminate

the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser/Consignee pursuant to GCC sub-clauses 22.3 and 22.4.

- 24.2 In the event of the Purchaser/Consignee terminates the contract in whole or in part, pursuant to GCC sub-clause 24.1 above, the Purchaser/Consignee may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the Purchaser/Consignee for the extra expenditure, if any, incurred by the Purchaser/Consignee for arranging such procurement.
- 24.3 Unless otherwise instructed by the Purchaser/Consignee, the supplier shall continue to perform the contract to the extent not terminated.

25. Termination for insolvency

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

26. Force Majeure

- 26.1 Notwithstanding the provisions contained in GCC clauses 22, 23 and 24, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure.
- 26.2 For purposes of this clause, Force Majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and which is not foreseeable and not brought about at the instance of , the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees , lockouts excluding by its management, and freight embargoes.
- 26.3 If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/Consignee in writing of such conditions and the cause thereof within twenty one days of occurrence of such event. Unless otherwise directed by the Purchaser/Consignee in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.
- 26.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.
- 26.5 In case due to a Force Majeure event the Purchaser/Consignee is unable to fulfil its contractual commitment and responsibility, the Purchaser/Consignee will notify the supplier accordingly and subsequent actions taken on similar lines described in above sub-paragraphs.

27. Termination for convenience

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

- 27.2 The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by the Purchaser/Consignee following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser/Consignee may decide:
- a) To get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or
 - b) To cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

28. Governing language

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

29. Notices

- 29.1 Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by cable or telex or facsimile and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.
- 29.2 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

30. Resolution of disputes

- 30.1 If dispute or difference of any kind shall arise between the Purchaser/Consignee and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.
- 30.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/Consignee or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India. 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 arbitrator appointed by the Secretary, Department of Health & Family Welfare, Govt. of NCT of Delhi. The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakhs (Rs. 1,00,000/-)
- 30.3 Venue of Arbitration: The venue of arbitration shall be at New Delhi, India.
- 30.4 Jurisdiction of the court will be at New Delhi, India

31. Applicable Law

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

32 Withholding and Lien in respect of sums claimed

Whenever any claim for payment arises under the contract against the supplier the purchaser shall be entitled to withhold and also have a lien to retain such sum from the security deposit or sum of

money arising out of under any other contract made by the supplier with the purchaser, pending finalization or adjudication of any such claim.

It is an agreed term of the contract that the sum of money so withheld or retained under the lien referred to above, by the purchaser, will be kept withheld or retained till the claim arising about of or under the contract is determined by the Arbitrator or by the competent court as the case may be, and the supplier will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention.

33. General/ Miscellaneous Clauses

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

Sl. No.	Tender ID	Name of the Item	Qty
1	2014_HFWD_71016_1	Items for Department of Anatomy	1 set
2	2014_HFWD_71016_2	Items for Department of Biochemistry	1 set
3	2014_HFWD_71016_3	Items for Department of Community Medicine	1 set
4	2014_HFWD_71016_4	Items for Department of Forensic Medicine	1 set
5	2014_HFWD_71016_5	Items for Department of Microbiology	1 set
6	2014_HFWD_71016_6	Items for Department of Pathology	1 set
7	2014_HFWD_71016_7	Items for Department of Pharmacology	1 set
8	2014_HFWD_71016_8	Items for Department of Physiology	1 set
9	2014_HFWD_71016_9	Glassware & Lab items	1 set

Note: Item wise quantities are mentioned in the specifications and price format in e-tender portal

Part II: Required Delivery Schedule:

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

Installation and commissioning (if any) shall be done within two weeks of receipt of the stores/ goods at site or within two weeks of handing over the site for installation, whichever is later.

Part III: Scope of Incidental Services:

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

Part IV:

Warranty period as per GCC clause 15.

Part V: Required Terms of Delivery and Destination:

- a) Delivery at Consignee Store.
- b) 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

SECTION – VII

Technical Specifications

Sl. No. 1

Items for Department of Anatomy

Sl. No	Item Name	Qty.	Specifications
1	Drill Machine	2	Drill Machine (Electrically Operated hand Drill) Universal hand drill; comprise saggital saw head piece, mini hand drill, transverse saw, triple drill guide 130 angles as well as open gear hand machine drill with S.S. chuck and key. These are precision designed in line with defined safety standards and for cadaver use.
2	Hand Saw (SS)	3	Hand Saw (S.S) Hand saw with high carbon steel blades made at HRD to 52 degrees, hard and durable, anti rust and smoothness, which leads to less friction, blades chrome plated blades. Specifications : For HRC, Blade materials reaches 52 degrees and teeth reaches 60 degrees (± 3) Chrome treatment, antirust, smooth resulting in less friction Elegant Handles, ergonomic Special Teeth Design, sharp at edges Versatile assortments
3	Band saw for sectioning body & limbs	1	Band saw for sectioning body & limbs
4	Brain Knife (SS)	3	Brain Knife Stainless steel, non rust standard - length 12"
5	Plastic tanks for storing soft & dissected parts	10	Plastic tanks for storing soft & dissected parts
6	Trolley Table (SS)	3	Trolley Table of Stainless steel / Instrument trolley with three shelves with guard rails on three side -With swivel castors Small:- 66x44x87cm (LxWxH) Large:- 91x45x82cm (LxWxH)
7	X-Ray viewing lobby	3	X-Ray viewing lobby 4 panel side by side X – Ray View box illuminator Standard features: 2 lamps (F15IT8/D) per panel, roller gravity film holding systems, durable steel construction, thin 3" profile, chip Resistenat hospital white finish, continuous bottom film ledge, even vue reflective system, UL and cUL listed, Centralized cluster on/off switching; FAS – film activated switching, MS – Master Switch,

			HGP – Hospital Grade Plug Specs: surface wall mount 4 panel side by side 56”X17” viewing area overall Dimensions: 56” L 21” H3 3/8 D. illumination: 2000cd/m2. Approximate weight 84 lbs.
8	Cabinet for slides (1000)	6	Cabinet for slides (1000)
9	Diamond Pencils with a sharp edges	4	Diamond Pencils with a sharp edges
10	7 colour marking pencils (VIBGYOR)	2	7 colour marking pencils (VIBGYOR)
11	Meat cutting Machine	1	Meat cutting Machine (Bakon's slicer) of standard type
12	Balance Eranger Capacity 6 Kg	2	Balance Eranger Capacity 6 Kg
13	Charts, Diagrams, Models, Slides	1 set	<p style="text-align: center;"><u>CHARTS</u></p> <p>All should be 26" x 20" sized, multi color, thick laminated, wall hanging type charts with rollers on upper and lower end.</p> <p>NAME OF CHART</p> <p>CHARTS ON ANATOMY</p> <ol style="list-style-type: none"> 1. The Muscular System 2. The Skeletal Systems 3. The Vertebral Column 4. Rib, Vert, System & hyoid Bone 5. The Nervous System 6. The Brain 7. The Anatomy of the Brain 8. The Spinal nerves 9. The Autonomic nervous System 10. The vascular System and Viscera 11. The Heart 12. The Lymphatic System 13. The Human Skull 14. Skull External and Internal Surfaces 15. The Head and Neck 16. The Respiratory System 17. The Eye 18. The structural Anatomy of the eye 19. The Eye. Anterior & Posterior chambers 20. The Ear, Nose & Throat 21. The Ear - Organs of hearing & Balance 22. Pharynx & Larynx 23. Anatomy of the inner ear 24. Temporomandibular Joint (TMJ) 25. The Skin 26. The Female Reproductive System 27. The Male Reproductive System 28. Pregnancy & Birth

		<p>29. Female Reproductive Systems (Ant. & Patho) 30. The Female External Genitalis (Ant.& Patho) 31. Body surface area & body weight 32. Birth Weight 33. Obstetrical Table 34. Critical Stages of foetal development. 1st.lunar month - 10th lunar month 35. The Endocrine System 36. The Shoulder and Elbow (Ligament) 37. Shoulder, Arm, Elbow, forearm & Head 38. The Hand and Wrist (Ligament) 39. Male, Female pelvis, Sacrum, Coccyx, Hip and Knee 40. Hip Thighs, Knee and Leg 41. The Foot and Ankle (Ligament) 42. Ankle and Foot 43. Skeletal Maturation & Growth 44. The Digestive System 45. The liver 46. The Urinary Tract 47. The Kidney 48. The Prostate 49. The portal System 50. Gastroesophageal Disorders and Digestive Anatomy 51. Origins, Development & Structure Cells 52. Soft Tissues of the Lower Limb 53. Soft Tissues of the Foot 54. Bones of the pelvis and Lower Limb 55. Varicose Veins 56. (a) External Morphological Features in Male Female (b) Sex Differentiating Features in Skull (One Chart) 57 (a) Sex Differentiating Features in Mandible. (b) Sex Differentiating Features in hip Bone. (c) Sex Differentiating Features in Sacrum (One Chart) 58 (a) Sex Differentiating Features in Articulated pelvis In addition to those present in hip bone & sacrum. (b) Sex Differentiating Features in Femur (One Chart) 59 (a) Estimation of Age-Ages of Eruption of teeth (b) International system of numbering the Teeth (One Chart) 60 (a) Aged of appearance and fusion of different Ossification of bones (b) Multiplication factor for different bones .for calculation of persons of different parts of India (One Chart).</p> <p style="text-align: center;"><u>MODELS</u></p> <p>ANATOMY</p> <p>1. Model of Man or Woman....(Normal Size)....Adult Showing superficial dissection on one side. And other side intact. Arms and legs are detachable. The internal organs in abdominal & thoracic wall are shown in situ and they are detachable.</p> <p>2. Human Torso with Head Life size. (Male or Female) Height 38 inches excluding arms & legs. Showing superficial</p>
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		<p>dissection on one side and other side intact. The internal organs in abdominal & thoracic wall are shown in situ. Half of the skull cap can be removed and brain can be taken out.</p> <ol style="list-style-type: none"> 3. Principal Structures found within tissue Cells 4. Head and NeckLongitudinal Section of Head and Neck 5. Brain with Skull 6. Brain in 4 Parts 7. Nervous system 8. Mid sagittal Section through the Brain 9. Structure of the Cerebellum. 10. A Superior View. An Interior View. A Sagittal View 11. Sagittal section through the Medulla Oblongata and pons showing 12. The Cranial Nerve Nuclei of Gray Matter 13. The Autonomic Nervous System 14. Spinal Cord with Spinal Nerves 15. Stretch Reflex 16. Tendon Reflex 17. Flexor (Withdrawal) Reflex 18. Crossed Extensor Reflex 19. Spinal nerves of the hand Anterior View 20. Spinal nerves of the leg. (Distribution of Nerves from Lumber & sacral Plexuses) 21. Posterior view of the brain Stem 22. Lymphatic System <p>Types of Neurons</p> <ol style="list-style-type: none"> 23. Multipolar Neuron. Bipolar Neuron. Unipolar Neuron 24. Reflex Arc. Including the Sensory receptor, Afferent Neuron, Association Neuron, Efferent neuron and Effector organ. 25. Converging Circuit in the Spinal Cord 26. Diverging Circuit in the spinal Cord 27. Ascending Pathway: The Dorsal Column Descending Pathway: The Pyramidal System (2 Models) 28. Somaesthetic pathway 29. Relationship of the Lymphatic System to the Cardio vascular system. 30. The cervicle sympathetic Ganglia 31. Human Eye ... Vertical SectionGreatly Enlarged Showing Muscle, Optic Nerves, Crystalline Lens, Iris, Cornea etc.. 32. Human Eye ball.... 100 times enlarged (Detachable) 33. Visual Central nervous System pathways (Superior View) 34. Ear ... Large Size ... Dissectible in 4 parts 35. Structure within the inner ear including the cochlea & Vestibular Apparatus 36. Ear ... Sagittal Section ... On board. (External, middle & Inner Ear) 37. Larynx.... Anterior View, Posterior View, Side View, Cut away Side View & Sagittal Section (5 Models) 38. Functional Model of Larynx... 39. LarynxDeep side-View 40. The Pharynx.....Posterior View 41. PharynxSagittal Section
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		<p>88. Kidneyin 2 Parts.....on stand</p> <p>89. Blood supply of the kidney</p> <p>90. Urinary BladderSectioned</p> <p>91. testisX Section</p> <p>92. Cross Section of the Penis..... Anterior view (Oblique section)</p> <p>93. Structure of the Penis showing the Attachment, Blood & Nerve supply and the arrangement of the erectile tissue</p> <p>94. Longitudinal Section of the Female Urethra</p> <p>95. Organs of the Male Reproductive System.(A Sagittal View)</p> <p>96. Organs of the Female Reproductive System (A Sagittal Section)</p> <p>97. The Size & Position of the Uterus in s full term Pregnant Woman in a Sagittal Section</p> <p>98. UterusSagittal Sectionwith fallopian tube with details</p> <p>99. Uterus in section showing sperm & Ovum in process of Fertilization.</p> <p>100. Ovarian Cycle, Fertilization and the Morphofenic events of the first week.</p> <p>101. Blood supply of the uterus.</p> <p>102. Vascular Supply to the Uterus</p> <p>103. Tubal Ligation involves removal of a portion of each uterine tube.</p> <p>104. Structure of the Breast and Mammary glands (A sagittal section and anterior view partially setioned)</p> <p>105. The skin 1000 times Enlarged</p> <p>106. Types of Skin Lesions.....Macule, Papule, Nodule, Wheel, vesicle, Intra or Sub epidermal blister, Pustule, Cyst, fissure and Ulcer</p> <p>107. Bone Structure..... Cross Section</p> <p>108. Hair Structure.....Cross Section</p> <p>Anatomy & Physiology of Pregnancy</p> <p>109. Human Ovum Enlarged</p> <p>110. Structure of Human Spermatozoon</p> <p>111. Spermatogenesis and Oogenesis</p> <p>112. Uterus in section showing Sperm and Ovum in Process of fertilization</p> <p>113. Foetal Surface of Placenta</p> <p>114. Maternal Surface of Placenta</p> <p>115. Breast (Made of fibre Glass Material)</p> <p>Before Puberty</p> <p>At Puberty</p> <p>Adolescent</p> <p>Adult, conical type</p> <p>Adult, well developed hemispherical type</p> <p>In Pregnancy</p> <p>In Lactation</p> <p>Pendulous, in older multiparous woman</p> <p>116. Breast in Pregnancy (Made of Silicon Material German-Make) Looks natural, Feels natural.</p> <p>117. Gradual Development of Uterus from 1st month to 9 months (9 Models)</p> <p>118. Model showing First, Second & third stage of Labour.</p>
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		<p>MODEL ON ANATOMY (DISSECTION OF UPPER & LOWER EXTRIMITIES)</p> <p>Made of fibre glass Material for Understanding dissection</p> <ol style="list-style-type: none"> 1. Superficial branches of cervical plexus. 2. Dissection of the right mammary gland. 3. Contents of axilla exposed by reflexion of pectoralis major nodes. and the fascia, and removal of fat and lymph. Part of auxiliary vein has been removed to display the medial cutaneous nerve of forearm and unlar nerve. 4. Lymph nodes and lymph vessels of axilla and mamma. 5. Dissection of auxiliary artery and its branches. 6. Dissection of lower part of posterior triangle of neck showing the supraclavicular part of branchial plexus. 7. Dissection of superficial muscles and nerves of the back. 8. Superficial veins at bend of elbow in a specimen in which the median vein was larg. 9. Superficial lymph vessels and lymph nodes of front of upper limb. 10. Superficial lymph vessels of back of upper limb. 11. Superficial veins and nerves of front of upper lumb. 12. Superficial veins and nerves of back of upper lumb. 13. Deltoid muscle and lateral aspect of arm. 14. Dissection of scapular region and back of arm to show the auxiliary and turned. The lateral head spiral groove on the humerus for the radial nerve 15. Anastomosing arteries around the scapula. 16. Dissection of left cubital fossa. The fat has been removed and the bicipital aponeurosis cut sway with the rest of the deep fascia. 17. Dissection of back shoulder and arm. The lateral head of triceps has been divided and turned aside to expose the spiral groove on the humerus for the radial nerve 18. Dissection of superficial muscles, arteries, and nerves of front of forearm. Part of the redial artery was removed to show the muscles deep to it. 19. Deep dissection of muscles, and nerves of front of forearm. The division of the branchial artery is slightly lower than usual. 20. Deep dissection of front of forearm. The elbow is partially flexed, the forearm semi-pronated. The superficial muscles are cut short and turned aside. The deeper parts are still further displayed by the separation of the flexor digitorum superficial from the flexor carpi ulnaris. 21. Superficial dissection of palm to show the palmar aponeurosis. The deep fascia has been removed from the thenar and hypothenar eminences. 22. Structure in palm displayed by removal of palmar aponeurosis. In this specimen the radialis indicis and the princeps pollicis arteries took origin from the superficial palmar arch. 23. Superficial dissection of back of forearm. 24. Deep dissection of back of forearm. 25. Dissection of right forearm triangle. 26. Dissection of adductor canal in the right thigh. A portion of the
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		<p>sartorius has been removed.</p> <p>27. Scheme of adductor group of muscles and obturator nerve.</p> <p>28. Dissection of left gluteal region. Gluteus maximus and gluteus medius have been removed, and quadratus femoris has been reflected. In the specimen, the inferior gluteal artery was medial to the internal pudendal instead of lateral to it.</p> <p>29. Left popliteal region after removal of the deep fascia- the muscles and fat being left undisturbed</p> <p>30. Dissection of left popliteal fossa. The upper boundaries have been pulled apart and the aponeurosis to which the two heads of the gastrocnemius are attached has been split and the heads separated. For deeper dissection.</p> <p>31. Dissection of left popliteal fossa. The two heads of the gastrocnemius and portions of the semimembranosus and semitendinosus have been removed. For more superficial dissection.</p> <p>32. Left popliteal artery and its branches.</p> <p>33. Dissection of gluteal region and back of thigh.</p> <p>34. Synovial sheaths of dorsum of foot.</p> <p>35. Dissection of front and lateral side of leg.</p> <p>36. Dissection of dorsum of foot.</p> <p>37. Dissection of showing synovial sheaths of tendons of lateral aspect of foot.</p> <p>38. Superficial dissection of leg viewed from posteromedial side, showing veins and nerves. Note the numerous anastomosis between the great and the small saphenous veins.</p> <p>39. Superficial dissection of leg viewed from posterolateral side showing veins and nerves. In the specimen were numerous large anastomosing channels between the small and the great saphenous veins.</p> <p>40. Deep dissection of back of leg.</p> <p>41. Dissection of medial side of ankle, showing the relations of the flexor retinaculum. (model no.-1) dissection of leg and foot showing synovial sheaths.(model no.-2)</p> <p>42. Superficial dissections of sole of foot to show plantar aponeurosis. The skin and superficial Fascia, except the superficial transverse ligament, have been removed, and the fibrous flexor sheaths partially opened.</p> <p>43. Superficial dissection of sole of foot. The plantar aponeurosis has been removed. The abductor digiti minimi and the abductor hallucis have been pulled aside</p> <p>44. Dissection of sole of foot. Most of the flexor digitorum brevis has been removed.</p> <p>45. Deep dissection of sole of foot</p>
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Sl. No. 2**Items for Department of Biochemistry**

Sl. No	Item Name	Qty.	Specifications
1	Fume cupboards	2	Fume cupboards is a fume cabinets which localised the fume extraction systems fitted in laboratories to protect users from harmful substances that could be inhaled. It should have a cabinet with a moveable front window made out of safety glass. It should properly functioning the fume hood exhausts hazardous gases, dusts, mists, vapors from a combined location. Cabinet Structure: Material: All steel (1.0mm cold-rolling steel or 1.0mm stainless steel) covered with electrostatic spraying after folding, welding, polishing, acid cleaning, phosphorization and chemical resistance. It should have all the accessories that is required.
2	Vortex mixer	2	Vortex mixer, Designed with a heavy cast aluminum body to provide optimum bench-top stability. <ul style="list-style-type: none"> • The mixer has two modes of operation: Continuous operation when you need to mix a quantity of tubes in sequence; intermittent operation is activated by touching the cup attachment with a test tube. • Equipped with a single tube mixing cup for single tube mixing and a soft foam pad and mixing platform for mixing 1 - 4 test tubes simultaneously. • To be supplied with a fractional workable motor on 220V AC completed with indicator, plug & cord, Speed- 100-3000rpm, dimesions (LxWxH)- 17.7x11.4x15.2 cms.
3	Urinometers	50	Urinometers (set requires a small amount of urine for testing, Reads specific gravity from 1.000 to 1,040)
4	Ryles tube	4	Ryles tube for nasogastric, nasoduodenal and gastrostomy tubes.
5	Magnetic stirrer	2	Magnetic stirrer, <ul style="list-style-type: none"> · The stirrer with a hot plate is made of metal sheet with stainless steel top which serves as a hot plate. · Its stirring and heating units are thermally insulated with asbestos sheet laminated with asbestos cement. · It is fitted with an electronic regulator to control the speed of the stirrer. · A energy regulator adjust the heating of the hot plate. · The apparatus work on 220/230v ac. · Laboratory magnetic stirrer is finished in oven baked paint.
6	Pump vaccum	2	Pump vaccum should be non-corrosive,non-evaporative applications, utilize diaphragm vacuum technology for totally dry operation - eliminates the oil changes, reduces maintenances, relaiable and improves productivity of having a high flow rate working vacuum.
7	Calorimeters	6	Calorimeters <ul style="list-style-type: none"> · Filter photo Colorimeter Digital Photo. · Colorimeter with 8 filters, mains operated.

8	Flame photometer	2	<p>Flame photometer Microprocessor Control with Filters, Na, K, Li, Ca,-Double display Filters-Narrow band-pass interference filters for sodium, Potassium, Calcium and Lithium available.</p> <ul style="list-style-type: none"> · Power supply – Regulated Power Supply to take care of mains variation of voltages between 200 to 250 V Amplifier- Highly stable, High Gain all IC amplifier. · Display- large, Bright Seven Segment LED Panel meter to display 0-100 scale with negative and over range indication. · Compressor- with built in regulator and Air Filter to deliver stable and moisture/oil free air supplier. · Ignition System- Auto Ignition. · Atomiser- Non-corroding, easily accessible and can be cleaned without putting out the flame. · Sample Take up rate- 5ml/min approximately. · Nominal Input Voltage- 220V, 50HZ
9	Thermometers 0-250° C	4	Thermometers 0-250° C
10	Thermometers 0-110° C	4	Thermometers 0-110° C
11	Cork borer set	1	Cork borer set consist of plated tubing with precision ground cutting edges, smooth plastic handles, handles and rubber stoppers.
12	Stop watch	4	Stop watch of good quality reading at 1/5 second with LED/LCD display reading at 1/5 display
13	Spirit lamp	50	Spirit lamp should be of top quality made up of premium raw material with a excellent functioning and durability.
14	Chromatographic chamber	2	<p>Chromatographic chamber Equipment : Chromatography Chamber Capacity : 1600 liters Temperature range : 2°C to 10°C Temperature control : By hot gas method Accuracy : $\pm 0.2^{\circ}\text{C}$ at 4°C Standard accessories : Two weather proof electrical sockets and one 45mm diameter access port, door lock and fan switch Safety feature : Built-in ELCB</p>
15	Desicator large size	6	Desicator large size used to protect chemicals which are hygroscopic or which react with water from humidity. It should be circular and made up of borosilicate glass. Both Vacuum & plan Desiccators are provided with a thick perforated Polypropylene disc with a big hole in the centre for easy lifting. The tiny holes in the disc provide air troughs & support to the dishes. However porcelain discs are advisable in case of incandescent crucibles.
16	Desicator small size	6	Desicator small size used to protect chemicals which are hygroscopic or which react with water from humidity. It should be circular and made up of borosilicate glass. Both Vacuum & plan Desiccators are provided with a thick perforated Polypropylene disc with a big hole in the centre for easy lifting. The tiny holes in the disc provide air

			troughs & support to the dishes. However porcelain discs are advisable in case of incandescent crucibles.
17	PH meters	3	Digital pH meter <ul style="list-style-type: none"> · Digital with LCD display · PH range from 4-14 · Combined electrode · Resolution 0.1 · Accuracy ± 0.01
18	Homogeniser	3	Homogeniser should be powerful, versatile, and durable homogenizer that can handle virtually any processing application. Its high power motor can handle even the toughest tissue samples, and emulsions and dispersions are quickly and easily completed. It should be compatible with stainless steel generator probes. It should have a processing range of <200 μ L to 10L, It can be hand-held or post mounted for lengthier processing. Includes 700 watt motor, tool kit and instruction manual.
19	U.V lamp	1	U.V lamp <ul style="list-style-type: none"> · Features: high turbulence; non wetting surface; high reliability low maintenance.
20	Tools for small workshop	1	Set of tools for small workshop for glass blowing and mending
21	Bottle dispenser	15	Bottle dispenser It should be designed for performance handling of liquids from a large variety of bottles and flasks, the dispensers combine the latest in dosing technology, high tech materials and ergonomic design. As a result, users benefit from universal chemical compatibility, ease of operation, superior safety and low maintenance. Volumes range 0.25 to 100 mL Superior chemical resistance Long lasting performance stability Comfortable and convenient in use Solid, yet simple construction Instant volume setting In-lab calibration Autoclavable at 121°C fully assembled Supplied with bottle adapters
22	Samplers (auto-pipettes)	15	Samplers (auto-pipettes) different volume range
23	Glass wares:		Glass wares of following capacity as required by standard lab. All items should be made of Heat resistant Borosilicate Glass
a)	Pipettes-1ml	200	Pipettes-1ml
	Pipettes-2ml	200	Pipettes-2ml
	Pipettes-5ml	200	Pipettes-5ml
	Pipettes-10ml	200	Pipettes-10ml
b)	Beakers-100ml	100	Beakers-100ml

	Beakers-250ml	200	Beakers-250ml
	Beakers-500ml	50	Beakers-500ml
	Beakers-1000ml	10	Beakers-1000ml
c)	Conical Flask-100ml	50	Conical Flask-100ml
	Conical Flask-250ml	200	Conical Flask-250ml
	Conical Flask-500ml	50	Conical Flask-500ml
	Conical Flask-1000ml	20	Conical Flask-1000ml
	Conical Flask-2000ml	10	Conical Flask-2000ml
d)	Test Tube (glass) -10ml	500	Test Tube (glass) -10ml
	Test Tube (glass) -15ml	500	Test Tube (glass) -15ml
	Test Tube (glass) -20ml	200	Test Tube (glass) -20ml
e)	Centrifuge tubes - 15ml	500	Centrifuge tubes - 15ml
	Centrifuge tubes (graduated) - 15ml	500	Centrifuge tubes (graduated) - 15ml
f)	Reagents Bottles - 100ml	500	Reagents Bottles - 100ml
	Reagents Bottles - 250ml	100	Reagents Bottles - 250ml
	Reagents Bottles - 500ml	50	Reagents Bottles - 500ml
g)	Measuring Cylinder - 100ml	20	Measuring Cylinder - 100ml
	Measuring Cylinder - 500ml	10	Measuring Cylinder - 500ml
	Measuring Cylinder - 1000ml	5	Measuring Cylinder - 1000ml

Sl. No. 3**Items for Department of Community Medicine**

Sl. No	Item Name	Qty.	Specifications
1	Comparator, Nessler	1	<p>Comparator, Nessler</p> <ul style="list-style-type: none"> · A system for visual colorimetric chemical analysis suitable for both laboratories & field use Features an adjustable base unit allowing it to be used directly with the comparator or with nessleriser. · Day light cabinet Provides a constant & stable light source corrected to CIE standard Illuminant C using a tungsten halogen lamp & a calibrated colour temperature correction filter. · Nessleriser attachment :accepts 2 Nessler's Cylinders, either 113 or 250 mm path length . · Nessler's cylinder glass 113mm & 250mm path length Matched pair Nessler cylinder stand hardwood with opal glass base plate to hold 6 Nessler's cylinders. · Cells for comparator: Test tubes square 13.5 mm, 10ml plastic with stopper, Pack of 5 Optical glass cell, rectangular, path length 5mm,25mm & 40mm. · Accessory glass colour standard & appropriate reagents. · Colour discs for comparator: ammonia, chlorine, hardness, nitrite, dissolved oxygen. · Colour disc for Nessleriser: Chlorine, Fluoride, dissolved oxygen.
2	Barometer, Fotin	1	<p>Barometer, Fotin</p> <ul style="list-style-type: none"> · Entire construction of metal. · The metric and English system scales read from 25" to 32" and 64 to 81 cms respectively with reflector behind scale and cistern. · The Vernier is worked by a milled head of the side operating with rack and pinion and reads 0.1" 0.1 cm. · Mounted on wood with Aluminium pipes and Aluminium fitting with soda glass tube but w/o thermometer.
3	Filter, Pasteur chamberland, complete set	1	<p>Filter, Pasteur chamberland, complete set</p> <ul style="list-style-type: none"> · Made of porcelain tube that contains a ring of enameled porcelain through which inflow pipe fits the core of a porcelain pipe made up of metal pipe with holes through which water flows out and is collected
4	Filter, berke fed	1	<p>Filter, berke fed</p> <ul style="list-style-type: none"> · Container capacity: 8 lit. Typical output per day : 80 lit. · CandleTwo in no. 2.75"x5" Imperial Supersterasyl ATC ceramic candle4, empty weight: 2.7 kg
5	Hydrometres, spirit	3	<p>Hydrometres, spirit</p> <ul style="list-style-type: none"> · 270mm long, covering a range span of 0.050°, sub-divided in 0.001°
6	Hydrometres, milk	3	<p>Hydrometres, milk</p> <ul style="list-style-type: none"> · 160mm long. · Scale calibrated in °SG, sub-divided every 0.001 and adjusted at 15.6°C (60°F).
7	Hydrometers,	1	Hydrometers, wet and dry BULB

	wet and dry BULB		<ul style="list-style-type: none"> · Wooden Thermometer easy to use, read fast · 270 x 80 x 10 mm; range:-10-50° C; Accuracy: 1°C · Material: wood
8	Weighing Balance, 2 Kg	1	Balance for weighting food stuff Capacity 2 Kg <ul style="list-style-type: none"> · Capacity: 2Kg. + 10g. · Size: 16cm x 14cm x 12cm · Unit Weight: 750gms. approx
9	Weighing machine adult	4	Weighing machine adult Digital, Capacity 150 kg + 0.5 kg <ul style="list-style-type: none"> · Size: 320mm X 62mm · Net weight 2.5 kg approx
10	Salters baby weighing machine	4	Salters baby weighing machine <ul style="list-style-type: none"> · Capacity 25 Kg. + 100 gm ,material: metal
11	Harpenders callipers	1	Harpenders callipers (for skinfold thickness) <ul style="list-style-type: none"> · Dial graduation: 0 mm - 20 mm,Measuring range 0 mm – 80 mm measuring pressure 10gms/mm² · Repeatability 0 mm - 20 mm Accuracy 99% · Accessories - carrying case
12	Height measuring stand	1	Height measuring stand Frame work of height measuring stand is constructed with good quality S.S material. Fully folding stand with light weight. 100% accuracy with inches, millimeter and in centimeters measuring. Maximum height measuring capacity is 210cm.
13	Water Purifier	1	Water Purifier (RO) for Drinking Water (Eureka Forbes/Kent /Hindustan Unilever/Ion Exchange)
14	Refrigerator 9 cu. Ft.	1	Refrigerator 9 cu. Ft.
15	Sterilizers, electric	2	Sterilizers, electric 300X150X100mm
16	Models, charts, diagrams	1 set	<p style="text-align: center;"><u>CHARTS</u></p> <p>All should be 26" x 20" sized, multi color, thick laminated, wall hanging type charts with rollers on upper and lower end.</p> <p>NAME OF CHART</p> <p>CHARTS ON ANATOMY</p> <ol style="list-style-type: none"> 1. The Muscular System 2. The Skeletal Systems 3. The Vertebral Column 4. Rib, Vert, System & hyoid Bone 5. The Nervous System 6. The Brain 7.The Anatomy of the Brain 8. The Spinal nerves 9. The Autonomic nervous System 10. The vascular System and Viscera 11. The Heart 12. The Lymphatic System 13. The Human Skull 14. Skull External and Internal Surfaces

			<ol style="list-style-type: none"> 15. The Head and Neck 16. The Respiratory System 17. The Eye 18. The structural Anatomy of the eye 19. The Eye. Anterior & Posterior chambers 20. The Ear, Nose & Throat 21. The Ear - Organs of hearing & Balance 22. Pharynx & Larynx 23. Anatomy of the inner ear 24. Temporomandibular Joint (TMJ) 25. The Skin 26. The Female Reproductive System 27. The Male Reproductive System 28. Pregnancy & Birth 29. Female Reproductive Systems (Ant. & Patho) <ol style="list-style-type: none"> 30. The Female External Genitalis (Ant.& Patho) 31. Body surface area & body weight 32. Birth Weight 33. Obstetrical Table 34. Critical Stages of foetal development. 1st.lunar month - 10th lunar month 35. The Endocrine System 36. The Shoulder and Elbow (Ligament) 37. Shoulder, Arm, Elbow, forearm & Head 38. The Hand and Wrist (Ligament) 39. Male, Female pelvis, Sacrum, Coccyx, Hip and Knee 40. Hip Thighs, Knee and Leg 41. The Foot and Ankle (Ligament) 42. Ankle and Foot 43. Skeletal Maturation & Growth 44. The Digestive System 45. The liver 46. The Urinary Tract 47. The Kidney 48. The Prostate 49. The portal System 50. Gastroesophageal Disorders and Digestive Anatomy 51. Origins, Development & Structure Cells 52. Soft Tissues of the Lower Limb 53. Soft Tissues of the Foot 54. Bones of the pelvis and Lower Limb 55. Varicose Veins 56. (a) External Morphological Features in Male Female (b) Sex Differentiating Features in Skull (One Chart) 57 (a) Sex Differentiating Features in Mandible. <ol style="list-style-type: none"> (b) Sex Differentiating Features in hip Bone. (c) Sex Differentiating Features in Sacrum (One Chart) 58 (a) Sex Differentiating Features in Articulated pelvis In addition to those present in hip bone & sacrum. <ol style="list-style-type: none"> (b) Sex Differentiating Features in Femur (One Chart) 59 (a) Estimation of Age-Ages of Eruption of teeth <ol style="list-style-type: none"> (b) International system of numbering the Teeth (One
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		<p>Chart) 60 (a) Aged of appearance and fusion of different Ossification of bones (b) Multiplication factor for different bones .for calculation of persons of different parts of India (One Chart).</p> <p style="text-align: center;"><u>MODELS</u></p> <p>ANATOMY</p> <ol style="list-style-type: none"> 1. Model of Man or Woman....(Normal Size)....Adult Showing superficial dissection on one side. And other side intact. Arms and legs are detachable. The internal organs in abdominal & thoracic wall are shown in situ and they are detachable. 2. Human Torso with Head Life size. (Male or Female) Height 38 inches excluding arms & legs. Showing superficial dissection on one side and other side intact. The internal organs in abdominal & thoracic wall are shown in situ. Half of the skull cap can be removed and brain can be taken out. 3. Principal Structures found within tissue Cells 4. Head and NeckLongitudinal Section of Head and Neck 5. Brain with Skull 6. Brain in 4 Parts 7. Nervous system 8. Mid sagittal Section through the Brain 9. Structure of the Cerebellum. 10. A Superior View. An Interior View. A Sagittal View 11. Sagittal section through the Medulla Oblongata and pons showing 12. The Cranial Nerve Nuclei of Gray Matter 13. The Autonomic Nervous System 14. Spinal Cord with Spinal Nerves 15. Stretch Reflex 16. Tendon Reflex 17. Flexor (Withdrawal) Reflex 18. Crossed Extensor Reflex 19. Spinal nerves of the hand Anterior View 20. Spinal nerves of the leg. (Distribution of Nerves from Lumber & sacral Plexuses) 21. Posterior view of the brain Stem 22. Lymphatic System <p>Types of Neurons</p> <ol style="list-style-type: none"> 23. Multipolar Neuron. Bipolar Neuron. Unipolar Neuron 24. Reflex Arc. Including the Sensory receptor, Afferent Neuron, Association Neuron, Efferent neuron and Effector organ. 25. Converging Circuit in the Spinal Cord 26. Diverging Circuit in the spinal Cord 27. Ascending Pathway: The Dorsal Column Descending Pathway: The Pyramidal System (2 Models)
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		<p>28. Somaesthetic pathway 29. Relationship of the Lymphatic System to the Cardiovascular system. 30. The cervical sympathetic Ganglia 31. Human Eye ... Vertical Section ... Greatly Enlarged Showing Muscle, Optic Nerves, Crystalline Lens, Iris, Cornea etc.. 32. Human Eye ball.... 100 times enlarged (Detachable) 33. Visual Central nervous System pathways (Superior View) 34. Ear ... Large Size ... Dissectible in 4 parts 35. Structure within the inner ear including the cochlea & Vestibular Apparatus 36. Ear ... Sagittal Section ... On board. (External, middle & Inner Ear) 37. Larynx.... Anterior View, Posterior View, Side View, Cut away Side View & Sagittal Section (5 Models) 38. Functional Model of Larynx... 39. Larynx Deep side-View 40. The Pharynx..... Posterior View 41. Pharynx ... Sagittal Section 42. Tonsils Pharyngeal, Palatine & Lingual Tonsil 43. Teeth (Lower jaw) with structure shown 44. the Structure of tooth 45. The Cavity in tooth 46. The Tongue Dorsal Surface 47. Pituitary Gland Hypothalamus 48. Thyroid & Parathyroid Glands 49. Sagittal Section through Nasal Cavity and Pharynx Viewed From medical Side 50. Lungs One side sectioned with Respiratory Tract, Bronchial Tubes, Arteries & Veins 51. Pulmonary circulation 52. The Respiratory System 53. Liver Enlarged showing Gall Bladder 54. Liver with Gall Bladder & Pancreas (On Stand) 55. Blood Supply of the Liver 56. Duct System with Gall Stones in common sites 57. Duct Hepatic Portal System 58. Endocrine System 59. Pancreas Enlarged 60. Structure of the pancreas 61. Stomach..... Enlarged..... with duodenum, sectioned showing details 62. An Anterior view of Abdominal aorta & its principal branches 63. Spleen..... Normal size with details 64. Gall bladder, Pancreas & Duodenum 65. Blood supply of the Intestine 65. Rectum (Anal Canal) 67. Large Intestine 68. Small Intestine. 69. The Digestive System 70. Heart Enlarged Separable in 4 Parts 71. Fat depositions in the arteries</p>
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		<p>72. Death of an Artery.</p> <p>73. Artery section with Blockage. (Plaque built up on artery body)</p> <p>74. Principal Arteries of the body.</p> <p>75. Principal Veins of the body .</p> <p>76. Veins that drain the head & Neck</p> <p>77. An Anterior view of the Veins that the upper right extremity</p> <p>78. Veins of the lower Extremities.</p> <p>79. Circulatory System</p> <p>80. Relationship of the lymphatic system to the Cardio vascular system.</p> <p>81. Fetal Circulations</p> <p>82. A Schematic Model of Circulatory System</p> <p>83. Arteries of the Neck and Head. Major branches of the right Common carotid and right subclavian arteries</p> <p>84. An Anterior view of the Major Arteries of the Upper Extremity</p> <p>85. Arteries of the pelvic Region</p> <p>86. Arteries of the right lower Extremity (Anterior view & posterior view)</p> <p>87. Urinary System With Kidney and Urinary Bladder</p> <p>88. Kidneyin 2 Parts.....on stand</p> <p>89. Blood supply of the kidney</p> <p>90. Urinary BladderSectioned</p> <p>91. testisX Section</p> <p>92. Cross Section of the Penis..... Anterior view (Oblique section)</p> <p>93. Structure of the Penis showing the Attachment, Blood & Nerve supply and the arrangement of the erectile tissue</p> <p>94. Longitudinal Section of the Female Urethra</p> <p>95. Organs of the Male Reproductive System.(A Sagittal View)</p> <p>96. Organs of the Female Reproductive System (A Sagittal Section)</p> <p>97. The Size & Position of the Uterus in s full term Pregnant Woman in a Sagittal Section</p> <p>98. UterusSagittal Sectionwith fallopian tube with details</p> <p>99. Uterus in section showing sperm & Ovum in process of Fertilization.</p> <p>100. Ovarian Cycle, Fertilization and the Morphofenic events of the first week.</p> <p>101. Blood supply of the uterus.</p> <p>102. Vascular Supply to the Uterus</p> <p>103. Tubal Ligation involves removal of a portion of each uterine tube.</p> <p>104. Structure of the Breast and Mammary glands (A sagittal section and anterior view partially setioned)</p> <p>105. The skin 1000 times Enlarged</p> <p>106. Types of Skin Lesions.....Macule, Papule, Nodule, Wheel, vesicle, Intra or Sub epidermal blister, Pustule, Cyst, fissure and Ulcer</p> <p>107. Bone Structure..... Cross Section</p> <p>108. Hair Structure.....Cross Section</p> <p>Anatomy & Physiology of Pregnancy</p> <p>109. Human Ovum Enlarged</p> <p>110. Structure of Human Spermatozoon</p> <p>111. Spermatogenesis and Oogenesis</p>
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		<p>112. Uterus in section showing Sperm and Ovum in Process of fertilization 113. Foetal Surface of Placenta 114. Maternal Surface of Placenta 115. Breast (Made of fibre Glass Material) Before Puberty At Puberty Adolescent Adult, conical type Adult, well developed hemispherical type In Pregnancy In Lactation Pendulous, in older multiparous woman 116. Breast in Pregnancy (Made of Silicon Material German-Make) Looks natural, Feels natural. 117. Gradual Development of Uterus from 1st month to 9 months (9 Models) 118. Model showing First, Second & third stage of Labour.</p> <p>MODEL ON ANATOMY (DISSECTION OF UPPER & LOWER EXTRIMITIES)</p> <p>Made of fibre glass Material for Understanding dissection</p> <ol style="list-style-type: none"> 1. Superficial branches of cervical plexus. 2. Dissection of the right mammary gland. 3. Contents of axilla exposed by reflexion of pectoralis major nodes. and the fascia, and removal of fat and lymph. Part of auxiliary vein has been removed to display the medial cutaneous nerve of forearm and unlar nerve. 4. Lymph nodes and lymph vessels of axilla and mamma. 5. Dissection of auxiliary artery and its branches. 6. Dissection of lower part of posterior triangle of neck showing the supraclavicular part of branchial plexus. 7. Dissection of superficial muscles and nerves of the back. 8. Superficial veins at bend of elbow in a specimen in which the median vein was larg. 9. Superficial lymph vessels and lymph nodes of front of upper limb. 10. Superficial lymph vessels of back of upper limb. 11. Superficial veins and nerves of front of upper lumb. 12. Superficial veins and nerves of back of upper lumb. 13. Deltoid muscle and lateral aspect of arm. 14. Dissection of scapular region and back of arm to show the auxiliary and turned. The lateral head spiral groove on the humerus for the radial nerve 15. Anastomosing arteries around the scapula. 16. Dissection of left cubital fossa. The fat has been removed and the bicipital aponeurosis cut sway with the rest of the deep fascia. 17. Dissection of back shoulder and arm. The lateral head of triceps
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		<p>has been divided and turned aside to expose the spiral groove on the humerus for the radial nerve</p> <ol style="list-style-type: none"> 18. Dissection of superficial muscles, arteries, and nerves of front of forearm. Part of the radial artery was removed to show the muscles deep to it. 19. Deep dissection of muscles, and nerves of front of forearm. The division of the brachial artery is slightly lower than usual. 20. Deep dissection of front of forearm. The elbow is partially flexed, the forearm semi-pronated. The superficial muscles are cut short and turned aside. The deeper parts are still further displayed by the separation of the flexor digitorum superficialis from the flexor carpi ulnaris. 21. Superficial dissection of palm to show the palmar aponeurosis. The deep fascia has been removed from the thenar and hypothenar eminences. 22. Structure in palm displayed by removal of palmar aponeurosis. In this specimen the radialis indicis and the princeps pollicis arteries took origin from the superficial palmar arch. 23. Superficial dissection of back of forearm. 24. Deep dissection of back of forearm. 25. Dissection of right forearm triangle. 26. Dissection of adductor canal in the right thigh. A portion of the sartorius has been removed. 27. Scheme of adductor group of muscles and obturator nerve. 28. Dissection of left gluteal region. Gluteus maximus and gluteus medius have been removed, and quadratus femoris has been reflected. In the specimen, the inferior gluteal artery was medial to the internal pudendal instead of lateral to it. 29. Left popliteal region after removal of the deep fascia- the muscles and fat being left undisturbed 30. Dissection of left popliteal fossa. The upper boundaries have been pulled apart and the aponeurosis to which the two heads of the gastrocnemius are attached has been split and the heads separated. For deeper dissection. 31. Dissection of left popliteal fossa. The two heads of the gastrocnemius and portions of the semimembranosus and semitendinosus have been removed. For more superficial dissection. 32. Left popliteal artery and its branches. 33. Dissection of gluteal region and back of thigh. 34. Synovial sheaths of dorsum of foot. 35. Dissection of front and lateral side of leg. 36. Dissection of dorsum of foot. 37. Dissection of showing synovial sheaths of tendons of lateral aspect of foot. 38. Superficial dissection of leg viewed from posteromedial side, showing veins and nerves. Note the numerous anastomosis between the great and the small saphenous veins. 39. Superficial dissection of leg viewed from posterolateral side showing veins and nerves. In the specimen were numerous large anastomosing channels between the small and the great saphenous veins.
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			<p>40. Deep dissection of back of leg.</p> <p>41. Dissection of medial side of ankle, showing the relations of the flexor retinaculum. (model no.-1) dissection of leg and foot showing synovial sheaths.(model no.-2)</p> <p>42. Superficial dissections of sole of foot to show plantar sponeurosis. The skin and superficial Fascia, except the superficial transverse ligament, have been removed, and the fobrous flexor sheaths partially opened.</p> <p>43. Superficial dissection of sole of foot. The plantar aponeurosis has been removed. The abductor digiti minimi and the abductor hallucis have been pulled aside</p> <p>44. Dissection of sole of foot. Most of the flexor digitorum brevis has been removed.</p> <p>45. Deep dissection of sole of foot</p>
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Sl. No. 4**Items for Department of Forensic Medicine**

Sl. No	Item Name	Qty.	Specifications
1	Weighting machine for human	2	Weighting machine, dial type human upto 150 kg
2	Equipment for reporting height	2	Equipment for reporting height Made of sturdy anodized aluminium , stadiometer with foot plate and lock knob for measurement accuracy with calibration cm, inches and feet
3	Weighting balance for foetus	1	Weighting balance for foetus Digital balance single pair for weighing foetus Large weighing S.S. pan, weighing capacity up to 15 kg
4	Weighing machine for organs	2	Weighing machine for organs Digital weighing machine for organ Stainless steel platform, size 1.5feetx 1.5 feet, digital display -measurement can be calibrated to adjust the weight of platform
5	Folding metal scale	1	Folding metal scale to measure upto 7 ft.
6	Steel tape roll	2	Steel tape roll
7	Vernier Caliper	1	Vernier calipers – 12 inch
8	Autopsy saw, with accessories	3	Autopsy saw, with accessories Light weight equipment, 10 feet cord with hospital grade plug -should cut bone easily to minimise operator fatigue - Saw should be attached to HEPA bone dust collector.
9	Hacksaw 12” (SS)	4	Hacksaw 12” stainless steel hacksaw frame tubular with plastic handle with fine cutting blades
10	Dissection sets	4	Dissection sets, Consisting of cartilage knife, bone cutting forceps, scissors- straight & curved, enterotome, scalpel knives with spare blades, probe metal scale graduated in cm made up of good quality stainless steel.
11	Rib. Shears, right and left Complete set	4	Rib. Shears, right and left Complete set made up of good quality stainless steel
12	Viscerotome with attachment	1	Viscerotome with attachment for illumination (Battery operated)
13	SLR camera with accessories	1	DSLR camera with accessories (Made of Sony/Nikon/Canon) 1. Min 16MP with external flash with 16 GB Class 10 SD card and twin Lens kit (18-55mm and 55-250mm with original manufacturer lens)

			<ol style="list-style-type: none"> 2. UV Lens filter and CP lens filter (Hoya) 3. Lens hood petal type, silicon rubber 4. Tripod: 2 way fluid head, quick release mechanism, spirit level, geared lockable centre column with braced 3 section leg, rubber legs. 5. Flash: Wireless flash. Approx 60m (197 ft) at ISO 100. AA/LR6 battery with battery charger. 6. Accessory to be supplied: Carrying case, AV cord, HDMI cord, Lens cleaning kit, battery charger.
14	Stopwatch	2	Stopwatch reading at 1/5 second with LED/LCD display reading at 1/5 display
15	X'ray view box one in four	4	<p>X'ray view box one in four (Reporting room + Demo room)</p> <ul style="list-style-type: none"> · Regular size, 4 panel side by side X – Ray View box illuminator · Standard features: 2 lamps (F15IT8/D) per panel, · Roller gravity film holding systems,
16	View box two in one	3	View box two in one Metallic body fixed type, wall hung with white light
17	B.P. Apparatus, Aneroid	4	<p>B.P. Apparatus</p> <p>Aneroid Sphygmomanometer Apparatus with wheels Mercury-free Square shape dial approx. 145mm x 145mm Adjustable height of stand Adjustable gradient for easy reading Five (5) wheels equipped with stopper for anti-slip mechanism Standard cotton cuff 2 tube adult latex bladder Standard latex bulb Air release valve with spring Standard end valve Spiral PVC tubing (1.8m).</p>
18	Anthropometric set	1	<p>Anthropometric set,</p> <p>The set contains the Tommy 3 Bone Caliper, a Slim Guide Skinfold Caliper, an Anthropometric Measuring Tape, and the Anthropometry Fundamentals CD. The Tommy 3 is a small, 15 cm bone caliper for measuring elbows, knees, wrists, ankles, and other small bones. The Slim Guide Caliper is used to measure body fat using a 0 to 85 mm scale. Body Fat Calipers are made of durable ABS plastic and are easy to use. The Calipers should not bend, even when pressure is applied to the tips.</p> <p>Skinfold Caliper Graduation: ~5%</p> <p>Skinfold Caliper Range: 0 to 85 mm</p> <p>Bone Caliper Increments: 1 cm (numbered) or 1 mm (unnumbered)</p> <p>Bone Caliper Range: 0 to 15 cm</p> <p>Measuring Tape Increments: 1 cm</p> <p>Measuring Tape Range: 0 to 200 cm</p>
19	Hot plates Electric	1	<p>Hot plates Electric</p> <ul style="list-style-type: none"> · Rectangular or round Hot plate · Cast Iron top 200mm, with Energy regulator · Sizes: 250X400X150mm, digitally controlled (optional) · S.S. Top · Works on 220V AC
20	L Modes	16	L Modes
21	Leather strops	2	Leather strops

22	Parafin Bath Embedding	1	Parafin Bath Embedding · Inner Wall with S.S. sheets · Slide drying chamber at bottom · Copper cups and tubes with lids and handle · Temperature range: ambient +/- 5 to 65°C · Works on 220V AC.
23	Slide warming Table	1	Slide warming Table
24	Stone Carborandom	2	Stone Carborandom Carborandom stone/ razor hone double sided (coarse & fine) motorized
25	Water bath (Tissue Flowing)	1	Water bath (Tissue Flowing) · Double walled, inner stainless steel and outer mild steel sheet and glass window fixed on the front for visibility of sample. · Heating mechanism should comprise of set of heat us corresponding to faster and lower heating · Should have stirrer and speed regulator, should operate on 220/230 volts AC/DC. · Digital temperature controller cum indicator from 5 oC to 80 oC with an accuracy of +/- 1 oC.
26	Brain Knife (SS)	8	Brain Knife Stainless steel, non-rust standard -length 12"
27	Black Holder	50	Black Holder
28	Digital pH meter	1	Digital pH meter · Digital with LCD display · PH range from 4-14 · Combined electrode · Resolution 0.1 · Accuracy ± 0.01
29	Glass cutting pencil	1	Glass cutting pencil
30	Hand set heat Sealer	1	Hand set heat Sealer (Standard Type)
31	Spectroscope Lens with adjustable slit	2	Spectroscope Lens with adjustable slit To view and measure spectral lines from various light sources
32	Video Camera, HD	1	Video Camera, HD (Made of Sony/Nikon/Canon) 1. Semi shoulder/handheld interchangeable lens camcorder equipped with three ½-inch Exmort™ full HD CMOS sensors, capable of delivering high quality images even in low light environments 2. XAVC 10 bit HD 422 and MPEG HD 422 50 Mbps recordings ideal for a wide range of shooting conditions. 3. Zoom Ratio 20x (optical) or above 4. Focal Length f = 5.8 -81.2 mm 5. Built in Optical Filters 6. Gamma Curve Selectable

			<p>7. Slow & Quick Motion Function</p> <p>8. 1080p: Frame rate selectable fro 1 fps to 30 fps (from 1 fps to 25 fps in PAL area setting in UDF Mode)</p> <p>9. White Balance PRESET (3200k), Memory A, Memory B/S TW</p> <p>10. All necessary accessories like carrying case, battery, battery charger, data cables & HDMI cord and min 16 GB class 10 memory card to be supplied.</p>
33	Instrument cabinet	1	<p>Instrument cabinet</p> <p>Steel Instrument cabinet, rust proof 90x50x185 cm(+/-5cm)</p> <p>- glass door</p> <p>- 5 shelves adjustable with good bearing capacity</p>
34	Instrument Trolley (SS)	1	<p>Instrument Trolley</p> <p>Stainless steel Instrument trolley with three shelves with guard rails on three side</p> <p>-With swivel castors</p> <p>Small:- 66x44x87cm (LxWxH)</p> <p>Large:- 91x45x82cm (LxWxH)</p>

Sl. No. 5**Items for Department of Microbiology**

Sl. No	Item Name	Qty.	Specifications
1	Serum inspissators, Inspissator Tank	2	<p>Serum inspissators, Inspissator Tank –made of rust-proof stainless steel sheet. Tank capacity: 50 -70 litres.</p> <ul style="list-style-type: none"> • Tray also made of stainless steel. • Tray size: 31” x 24” (80x60cm). Outer body: 41” x 26” x 16” (104x65x40cm), having a set of slopes to provide an angle of 8-10 degree to the media containers • A constant water level setup ensuring compensation of evaporation losses. • The total heat up time – 2- 2.5 hours. • Digital controller, with an LED/LCD display to indicate set and actual temperature. • Resolution - 0.1C, uniformity - 0.5-1C and standard working temperature - 85C • Operating temperature range for the inspissator controller - 0C to 100C. • Provision of spare heaters, optional • It should be CE/FDA approved • Training to laboratory personal • Operating and detailed service manual should be supplied.
2	Lovibond comparators	1	<p>Lovibond comparators. The comparator should be a compact, lightweight colorimetric unit suitable for both mobile and static water analysis. It should provide the basis for a comprehensive easy-to-use analysis system. Each CHECKIT Comparator Disc contains a continuous colour scale for exact colour matching between standard and sample. pH value Test range from 4-10.</p>
3	Flasks flat bottom 50cc	6	<p>Flasks flat bottom 50 cc Flask Flat Bottom Wide Neck made of heat resistant low expansion borosilicate glass.</p>
4	Micrometer eye piece	2	<p>Micrometer eye piece It is used for mounting onto a microscope, it can be applied to a wide range of needs, including measuring, inspection, measurement, alignment, positioning, etc. Glass diameter: $\phi 24$</p> <ul style="list-style-type: none"> • Material: Blue plate glass • Plate thickness: 1mm • Vapor deposition: Top surface • Diopter Adjustment Range: ± 5 dpt • Stationary Scale: 8mm/8div • Movable Scale : 1mm/100div • Accuracy of Measurement: 0.01mm
5	Micrometer stage, Mounted on stainless steel slide mount	2	<p>Micrometer stage, Mounted on stainless steel slide mount</p> <ul style="list-style-type: none"> • With cover-glass • Supplied with protective cover • Graduated Scale of length 1-20 mm, subdivided giving

			<p>smallest graduation of 10 micrometer</p> <ul style="list-style-type: none"> • Thickness (mm) – 1.1-1.5 • Thickness tolerance (mm) – ± 0.1 • Line width (mm) – 0.001 • Line width tolerance (mm) – 0.001-0.005 • Accuracy – 1-2 • With Internationally traceable certificates of calibration
6	Oil immersion lens for student microscope	55	Oil immersion lens for student microscope
7	Dropping bottles for stains (Plastic)	500	Dropping bottles for stains (Plastic)
8	Staining troughs, Staining set	60	Staining troughs, Staining set consisting of: Glass trough with cover and staining tray of stainless steel, for staining of 10 micro slides at the same time, complete in a carton (without slides)
9	Anaerobic apparatus	3	<p>Anaerobic apparatus should be Transparent unbreakable jar with 3.5 Litres capacity</p> <ul style="list-style-type: none"> • Sturdy lid, clamp and sealing ring with built in safety features. • System with compound gauge. • Supplied with Stainless steel Petri-plate carrier, stainless steel test tube carrier and gas pack pkt.
10	UV Lamp	1	<p>UV Lamp</p> <ul style="list-style-type: none"> • Features: high turbulence; non wetting surface; high reliability low maintenance.
11	VDRL Shaker	2	<p>VDRL Shaker, it has a ability to accommodate the blood bottle slides or the flasks by the spring holder. Used for VDRL Tests, Blood Grouping Tests, Agglutination Tests, Mixing of solutions in small bottles, beakers & flasks etc. Platform size: 300x300mm, Power consumption 230/220V AC with a speed of 70-210/ 350 rpm, automatic timer, digital rpm meter, automatic restart at preset speed in case of power failure.</p>
12	Thermometers (Assorted) Digital	12	Thermometers (Assorted) Digital, temperature range, should have both Celsius and farenheight scale
13	PH determination apparatus	2	<p>PH determination apparatus Digital with LCD display</p> <ul style="list-style-type: none"> • PH range from 4-14 • Combined electrode • Resolution 0.1 • Accuracy ± 0.01
14	Colony Counter Specification (Digital)	1	<p>Colony Counter Specification (Digital) :-</p> <ol style="list-style-type: none"> 1. Auto Mark Pen/Probe. 2. Wolffhuegel Grid Glass Plate with adjustable focussing. 3. 110 mm Magnifying Lence. 4. Four Digit Resettable Electronic Counterwith audio beep at every count. 5. Nett Weight- 3.5 Kgs. 6. Supply- 230V AC 50Hz
15	Vortex mixer	1	<p>Vortex mixer</p> <p>Designed with a heavy cast aluminium body to provide</p>

			<p>optimum bench-top stability.</p> <ul style="list-style-type: none"> • The mixer has two modes of operation: Continuous operation when you need to mix a quantity of tubes in sequence; intermittent operation is activated by touching the cup attachment with a test tube. • Equipped with a single tube mixing cup for single tube mixing and a soft foam pad and mixing platform for mixing 1 - 4 test tubes simultaneously. • To be supplied with a fractional workable motor on 220V AC completed with indicator, plug & cord, Speed- 100-3000rpm, dimensions (LxWxH)- 17.7x11.4x15.2 cms.
16	Reagent bottles, 2000cc	12	Reagent bottles with stopper 2000cc
17	Reagent bottles, 1000cc	36	Reagent bottles with stopper 1000cc
18	Reagent bottles, 500cc	24	Reagent bottles with stopper 500cc
19	Reagent bottles, 250cc	24	Reagent bottles with stopper 250cc
20	Reagent bottles, 100cc	60	Reagent bottles with stopper 100cc
21	Reagent bottles, 50cc	60	Reagent bottles with stopper 50cc
22	Test tubers hard glass 150mmx 18mm	10 Gross	Test tubers hard glass 150mmx 18mm
23	Test tubers hard glass 100mmx12mm	20 Gross	Test tubers hard glass 100mmx12mm
24	Test tubers hard glass 75mmx12mm	20 Gross	Test tubers hard glass 75mmx12mm

Sl. No. 6**Items for Department of Pathology**

Sl. No	Item Name	Qty.	Specifications
1	Hot plates electric	2	<p>Hot plates electric</p> <ul style="list-style-type: none"> · Rectangular Hot plate · Cast Iron top 200mm, with Energy regulator · Sizes: 250X400X150mm, digitally controlled (optional) · S.S. Top · Works on 220V AC - It should have ISI/FDA mark
2	Hot air oven	2	<p>Hot air oven</p> <ul style="list-style-type: none"> · Lab model with three side heating elements · Construction with double walled construction. · Inner chamber made of Aluminium or stainless steel sheet. · Outer chamber is made of mild steel sheet, finished with powder coated paint. · The gap between the walls is filled up with special grade glass wool for proper insulation to avoid heat losses. · Inner chamber has ribs for placing the shelves at convenient levels. · Supplied with 2 or 3 removable shelves. · It is fitted with heavy hinges with a ball catcher, spring loaded door closing device. · Door is duly insulated. · Elements: heating elements are made of high quality nickel/chrome plated nichrome wire which are put inside beads and placed at the bottom and in both the side ribs for uniform temperature all over the work space. · Temperature Control: temperature is controlled by imported capillary type thermostat from 50°C to 250°C +/- 1°C. · Temperature control knob is graduated in centigrade degrees. · Ventilation: air ventilators are placed near the top of the both sides to remove hot gasses and fumes if any. · Control Panel: comprising of switch to ON/OFF the power, switch to select high or low rates of heating, thermostat control knob and indicators for mains and thermostats. Supplied with cord and plug. · Suitable to operate on 220 volts, 1ph, 50Hz, AC Supply. · Optional Accessories: Air circulating pan, digital display temp indicator, digital display temp. controller cum indicator in lieu of thermostat., microprocessor based PID temp. controller cum indicator in lieu of thermostat., L shaped thermometer (Mercury) or straight type. · Timer: Size of inner chamber WXHXD = 455X455X455mm, · No. shelves=2. - It should have ISI/FDA mark
3	Paraffin embedding bath (Ordinary)	2	<p>Paraffin embedding bath(Ordinary)</p> <ul style="list-style-type: none"> · Inner Wall with S.S. sheets

			<ul style="list-style-type: none"> · Slide drying chamber at bottom · Copper cups and tubes with lids and handle · Temperature range: ambient +/- 5 to 65°C · Works on 220V AC. - It should have ISI/FDA mark
4	Electric vacuum embedding baths	2	<p>Electric vacuum embedding baths</p> <ul style="list-style-type: none"> · Stainless steel body · Minimum two pots · Pot depth – 160 mm, pot diameter 150 mm · External diameter – LxWxD – 670x380x270 mm · Gauge – vacuum · Temperature control – digital PID controller · Minimum temperature – Ambient + 5 °C · Maximum temperature – 100 °C · Temperature setting accuracy 0.1 °C · Power- 2000 W - It should have ISI/FDA mark
5	Water bath 57 degree Celsius	1	<p>Water bath 57 degree Celsius</p> <ul style="list-style-type: none"> · Double walled, inner stainless steel and outer mild steel sheet and glass window fixed on the front for visibility of sample. · Heating mechanism should comprise of set of heat us corresponding to faster and lower heating · Should have stirrer and speed regulator, should operate on 220/230 volts AC/DC. · Digital temperature controller cum indicator from 5 oC to 80 oC with an accuracy of +/- 1 °C. - It should have ISI/FDA/CE mark
6	Rectangular water bath	1	<p>Rectangular water bath</p> <p>Thermostatic Control/; Boiling water baths with lids having 8 – 12 holes</p> <ul style="list-style-type: none"> · Temperature range from ambient to 95 °C. · Thermostatic control with an accuracy of +/- 1C. · Double walled with inner wall of stainless steel and outer of MS powder coated, with Lids of SS. · The unit is provided with immersion type heaters top work on 220VAC. · The unit is supplied with indicating lamps, main chord and Plug. · Size of the inner chamber-approx. 355x405x100mm;15kw
7	Calorimeters	1	<p>Calorimeters</p> <ul style="list-style-type: none"> · Filter photo Colorimeter Digital Photo. · Colorimeter with 8 filters, mains operated.
8	Cabinet for 1000 slides (SS)	5	<p>Cabinet for 1000 slides</p> <ul style="list-style-type: none"> · Stainless steel, 1000 capacity Wrap proof, break proof for storage of prepared microscopic slides. · Have slots to accommodate 1000 slides with lid. Wooden with hinged lid, slides are held in numbered slots and there is an index inside the lid.
9	Band saw (Electric)	1	<p>Band saw (Electric)</p> <ul style="list-style-type: none"> · For cutting bones. To be able to make 5 cm slots in bone Tissues. · Technical Specifications:

			<ul style="list-style-type: none"> · Max. Job Height in mm 200 · Max. Throat in mm 200 · Table Size (L x W in mm) 600 x 600 · Blade Speed in mtr /min. 20 - 100 · Blade Size (L x W x T in mm) 3505 x 27 x 0.9 · Saw Motor Capacity in HP 3 · Coolant Motor Capacity in HP 0.16 · Overall Size (L x W x H in mm) 900 x 700 x 2100
10	Staining racks	10	Staining racks for staining in bulk · To hold the slides in vertical position before and after staining to hold 10 to 20 slides.
11	Troughs for staining in bulk	12	Troughs for staining in bulk (HP & Cytology)
12	Coplin Jars	24	Coplin Jars (for fixing pap smears)
13	Water bath (Metal)	2	Water bath (Metal) 3 inch diameter, Thermostatically controlled double walled, complete with contact thermometer and stirrer.
14	Polarising attachments for microscopes	1	Polarising attachments for microscopes (standard Types)
15	Micrometer, Ocular	1	Micrometer, Ocular
16	Demonstration eye pieces	6	Demonstration eye pieces (Eye piece with Pointer)
17	Magnifying lens	6	Magnifying lens (for grossing)
18	Blood pressure Instrument	2	Blood pressure Instrument, (Digital/ Aneroid)
19	Micrometer stage	2	Micrometer stage (standard type)
20	Hot plate electric	2	Hot plate electric Rectangular Hot plate · Cast Iron top 200mm, with Energy regulator · Sizes: 250X400X150mm, digitally controlled (optional) · S.S. Top · Works on 220V AC
21	Laboratory Counter nine keys for DLC	6	Laboratory Counter nine keys for DLC
22	Laboratory stirrer	1	Laboratory stirrer (Standard type)
23	Automatic Timer	2	Automatic Timer (Standard type)
24	Balance for weighing organs	1	Balance for weighing organs · Sealed stainless steel surface, should be robust and easy to clean. · Platform size approximately 235x5x170 mm. · Display should be protected against soiling by fluids. · Sealed battery compartment. · One gram graduation. · Automatic switch off, HOLD function, pre-TARE function. · With a capacity of upto 10 kgs. · Batteries to be included.
25	Saws, wire for cutting bones	1	Saws, wire for cutting bones
26	Slide boxes for 100 slides	120	Slide boxes for 100 slides for students

27	Drill for boring glass	2	Drill for boring glass (Museum) of standard type
28	Blow piece with bellows for bending glass	2	Blow piece with bellows for bending glass (Museum) of standard type
29	B.P. Apparatus, Aneroid	2	B.P. Apparatus Aneroid Sphygmomanometer Apparatus with wheels Mercury-free Square shape dial approx. 145mm x 145mm Adjustable height of stand Adjustable gradient for easy reading Five (5) wheels equipped with stopper for anti-slip mechanism Standard cotton cuff 2 tube adult latex bladder Standard latex bulb Air release valve with spring Standard end valve Spiral PVC tubing (1.8m).
30	X-ray viewing box	2	X-ray viewing box (Reporting room + Demo room) · Regular size, 4 panel side by side X – Ray View box illuminator · Standard features: 2 lamps (F15IT8/D) per panel, · Roller gravity film holding systems,
31	Double Demonstration Eye piece	2	Double Demonstration Eye piece
32	Microprojection apparatus	2	Specifications for Microprojection apparatus (LCD Projector) 1. Screen Size - 4 meters diagonally 2. Aspect Ratio - 4:3 3. Computer Compatibility - VGA /SVGA/ XGA/ SXGA 4. Video Compatibility- PAL/SECAM/ NTSC 5. Projection Lamp - UHP/ METALHALIDE / NSH – LAMP. Details of lamp to be furnished in the offer 6. Lamp Life - 2000hrs Minimum If offered models are with lamp life less than 2000 hours, additional lamps to achieve lamp life 2000 hrs. (Minimum) 7. Lamp hour counter - To be built -in 8. Brightness- 2000ANSI Lumens or higher 9. Throw Distance (Range) - Should cover 2 meters-5 meters from screen 10. Audio System Minimum - 1.0 watt RMS with built-in speaker 11. Zoom & Focusing - Lens Zoom 1:1.2 or higher, Motorized Zoom & Focus (Controlled by a Remote) 12. Remote Control - Remote control unit for PC and Mouse with inbuilt laser pointer 13. Terminals ports with connectors (Input/output) - Video IN, S Video IN, RGBIN, Audio IN, RGBOUT, 14. connectivity for remote mouse (to be specified by bidder) 15. Power Consumption - 260 W Max (to be specified by bidder) 16. Contrast Ratio - 260: 1 or higher 17. PCMCIA card slot with card . 18. Native resolution - 1024x768Color Pixels Minimum 19. Intelligent resizing - 1280x1024 20. Key stone/Lens shift - Digital 21. Packing - Hard case high Impact, durable case for LCD Projectors
33	Sternal puncture needle Adult size	2	Sternal puncture needle Adult size (Klima and Salah type) Heavy duty stainless steel made, with total assembly comprising of

			aspiration needle with adjustable guard and trocar, Size:15G, 1 7/8inches Adult size
34	Sternal puncture needle Child size	2	Sternal puncture needle Child size (Klima and Salah type) Heavy duty stainless steel made, with total assembly comprising of aspiration needle with adjustable guard and trocar, Size: 18G, 1 ½ inches Child size
35	Liver Biopsy needle Trucut needle s.s.	2	Liver Biopsy needle Trucut needle s.s.
36	Box weight analytical	2	Box weight analytical
37	Stop watch	6	Stop watch reading at 1/5 second with LED/LCD display reading at 1/5 display
38	Ultraviolet lamp	1	Ultraviolet lamp · Features: high turbulence; non wetting surface; high reliability low maintenance.
39	Parafin Bath Embedding	2	Parafin Bath Embedding · Inner Wall with S.S. sheets · Slide drying chamber at bottom · Copper cups and tubes with lids and handle · Temperature range: ambient +/- 5 to 65°C · Works on 220V AC.
40	Paper electrophoresic apparatus Horizontal	1	Paper electrophoresic apparatus Horizontal Application: Serum protein profile, Urine protein profile, CSF protein profile, and Hemoglobin profile. Description: 1. Automated complete system including integrated all working station, sample placing, reagent addition, result recovery without manual intervention . 2. Sequential sample application , reagent addition and reading in an integrated work station . 3. Horizontal electrophoresis system gel unit and gel dryer. 4. Sample loading station consisting sample plate , application and strip Holder, multiple independent sample application probes , auto rinsing for zero carry over . 5. Migration support – cellulose acetate Strip / gel or any other comparable medium suitable for the system which is readily available in the market. 6. Multichannel solid state densitometer supporting fast analysis and display; automatic protein fraction identification; automatic zeroing; supported by a acceptable range of linearity and reproducibility.. 7. No fluidic system. 8. Monoblock migration chamber with electrodes supporting fast migration. 9. Multi reagents tanks with independent loading and refill of reagents / gel automatic staining and de-staining ,incubation and drying 10. On-line monitoring of the entire process. 11. Versatile power supply unit with voltage adjustment. 12. Data management system with built –in display. Key board. Microcontroller software based. 13. System supporting auto interpretation of result, color print of

			<p>chromatogram and gel.</p> <p>14. Option for quality control , data storage, etc.</p> <p>15. Capability of generating reports with graphic and photographic presentation of electrophoretic 1 4000</p> <p>C:\Users\ESICH-JDA\Desktop\ Equipments - Two Bid System(Open tender)MEDICAL COLLEGE 2013-Phase III Terms & Conditions, Equipment & Instruments Retender (04.03.2014).doc - 33 - bands , electro chromatograph analytic values.</p> <p>16. Analytical capability for serum protein profile , urine protein profile, CSF protein profile, hemoglobin, profile, lipoprotein and isoenzyme. .</p> <p>17. Availability of reagents in the local market / by the supplier.</p> <p>18. Option for data transfer to PC through a compatible port ; data management software; data storage facility.</p> <p>19. Reporting prints incorporating result data numerical, electrophoretic bands and Densitometric peaks in external printer either supplied as a part of manufacturer's Consignment, otherwise to be supplied along with the system of suitable Specification.</p> <p>20. UPS capacity 2.0 KVA.</p> <p>21. Standard accessories as specified by the manufacturer along with the consignment.</p> <p>22. Dust cover for all components of the system.</p> <p>23. Chemicals, medium, buffers, eluting reagents and staining solution, etc. as start-up kit.</p>
41	Water Distillation Apparatus still Electric	1	<p>Water Distillation Apparatus still Electric</p> <ul style="list-style-type: none"> · Automatic sensors made available to keep the system in standby mode, when system is not in operation · Output Ltrs/Hr: 10 lt /hr double distilled · Quality of distillate: grade 1 · Conductivity us/cm: < 0.2 us/cm, On line conductivity provided to monitor quality of output water. · Cooling water input for condemnation: 2ltrs/min X 2 inputs ,Water recycling available, no wastage of water · Power: 230v, 50/60Hz, 2 phase, 12KW approximately
42	Water bath (Tissue Flowing)	2	<p>Water bath (Tissue Flowing)</p> <ul style="list-style-type: none"> · Double walled, inner stainless steel and outer mild steel sheet and glass window fixed on the front for visibility of sample. · Heating mechanism should comprise of set of heat us corresponding to faster and lower heating · Should have stirrer and speed regulator, should operate on 220/230 volts AC/DC. · Digital temperature controller cum indicator from 5 oC to 80 oC with an accuracy of +/- 1 oC.
43	Drawing instruments and colours for photo artist	1 set	Drawing instruments and colours for photo artist

44	Surgical Instruments for grossing standards	1 set	Surgical Instruments for grossing standards a) Brain knife b) Enderotrome :c) SS knife for cutting organs.
45	Dark room lamp	1 set	Dark room lamp, developing troughs Chemicals etc. for photo artist, Glassware, stains, chemicals reagents etc. for Histological work
46	Bottles Sp. Gravity 25cc	2	Bottles Sp. Gravity 25cc
47	Micro burretes 5 cc	2	Micro burretes 5 cc
48	Haemacytometers with red and white pipettes	60	Haemacytometers with red and white pipettes Hemacytometer Improved Neubauer with precision bright line ruling and triangular moat Accessories: Cover glass 1mm thickness rounded corners WBC Pipette precision with white bead and ruling at 0.5, 1 and 20 RBC Pipette precision with red bead and ruling at 0.5, 1 and 101
49	Haemoglobinometers, Sahili'type	60	Haemoglobinometers, Sahili'type Hemoglobinometer Sahli with good quality comparator box, square type hemoglobinometer tube with ruling in g/dl and %, precision Hemoglobinometer pipette with 20µl mark, good quality rubber tubing and mouth-piece, dropper and cleaning brush
50	Sedimentation apparatus Westergren	2 sets	Sedimentation apparatus Westergren with 1. Metallic rack with spring-loaded pipette holder and round base with rubber cushion, provided with spirit level 5 station 2. Glass Westergren pipettes, class A glass with precision etched and printed marks and ground lower end and smooth rounded top end : 5 (Five) tubes 3. Pipette filler for Westergren tube : 1
51	Sedimentation apparatus Wintrobe	2 sets	Sedimentation apparatus Wintrobe with 1. Metallic rack with screw adjusted pipette holder and round base with rubber cushion 5 station 2. Glass Wintrobe's tubes, class A glass with precision etched and printed marks in mm in both ascending and descending order, polished and rounded opening : 5 (Five) tubes 3. Glass Landau's tubes, class A glass with bulb and precision etched and printed marks at 0 to 50 mm : 5 (Five) tubes 5 sets 100 C:\Users\ESICH-JDA\Desktop\Equipments - Two Bid System(Open tender)MEDICAL COLLEGE 2013-Phase III Terms & Conditions, Equipment & Instruments Retender (04.03.2014).doc - 41 - 4. Filling pipette with long stem and rubber teat : 5(Five) Nos
52	Urinometers	9	Urinometers, Urinometer precision glass with mercury bulb and graduated stem with temperature mark
53	Albuminometers, esbachs & Aufrech's type	1	Albuminometers, esbachs & Aufrech's type Albuminometer Esbach's Corning glass with precision marking with corrosion-resistant rubber stopper in wooden/polymer case
54	Urine Glasset (Conical)	12	Urine Glasset(Conical)

55	Centifuge tubes graduated	36	Centifuge tubes graduated
56	Crusible with china ltd top quality	2	Crusible with china ltd top quality
57	Crusible Gooch with adapter	2	Crusible Gooch with adapter
58	Graduated cylinders	6 each	Graduated cylinders for various capacities ranging from 100cc to 1000cc.
59	Pipettes	60	Pipettes of various sizes, graduated sets
60	Reagent bottles	300	Reagent bottles
61	Dropping Bottles	300	Dropping Bottles
62	Dropping Bottles 4 ounce	300	Dropping Bottles 4 ounce
63	Digital pH meter	1	Digital pH meter <ul style="list-style-type: none"> · Digital with LCD display · PH range from 4-14 · Combined electrode · Resolution 0.1 · Accuracy ± 0.01

Sl. No. 7**Items for Department of Pharmacology**

Sl. No	Item Name	Qty.	Specifications
1	Colorimeters	3	Colorimeters - Filter photo Colorimeter Digital Photo. - Colorimeter with 8 filters, mains operated.
2	Manometers	6	Manometers mercury of standard type
3	Thermometer	25	Thermometer (upto 110 degree Celsius)
4	Working tables	6	Working tables with racks each table 36 long
5	Chemical Balance-ordinary Apothecary's	25	Chemical Balance-ordinary Apothecary's· (Analytical) with weight box. · Best quality with divided doors show case, capacity 250 gms. · Sensitivity 1-2 mgm having all stone agates fitted in open graduated beam.
6	Stop Watches Jacquets	12	Stop Watches Jacquets
7	Dispensing Balance with metric system weights	30	Dispensing Balance with metric system weights · 50 gms with s.s pans, Single Brass beam equal arm double Pan with extended support balance with metric system weights Should be in Teakwood case on wooden/formica base. · Capacity 250gms.,sensitivity 1mg.
8	Pill Tiles	100	Pill Tiles
9	Suppository moulds	100	Suppository moulds
10	Porcelain dishes	100	Porcelain dishes
11	Crucibles with tongs	100	Crucibles with tongs
12	Pestle and Mortar	100	Pestle and Mortar
13	Iron Spatula	100	Iron Spatula
14	Flame photometer	1	Flame photometer · Microprocessor Control with Filters, Na, K, Li, Ca,-Double display Filters-Narrow band-pass interference filters for sodium, Potassium, Calcium and Lithium available. · Power supply – Regulated Power Supply to take care of mains variation of voltages between 200 to 250 V Amplifier- Highly stable, High Gain all IC amplifier. · Display- large, Bright Seven Segment LED Panel meter to display 0-100 scale with negative and over range indication. · Compressor- with built in regulator and Air Filter to deliver stable and moisture/oil free air supplier. · Ignition System- Auto Ignition. · Atomiser- Non-corroding, easily accessible and can be cleaned without putting out the flame. · Sample Take up rate- 5ml/min approximately. · Nominal Input Voltage- 220V, 50HZ
15	Petri dishes assorted	30	Petri dishes assorted

16	Museum drugs specimen jars	30	Museum drugs specimen jars
17	Microscope lamps	4	Microscope lamps
18	Magnetic stirrer B.T.L.	1	<p>Magnetic stirrer B.T.L.</p> <ul style="list-style-type: none"> · The stirrer with a hot plate is made of metal sheet with stainless steel top which serves as a hot plate. · Its stirring and heating units are thermally insulated with asbestos sheet laminated with asbestos cement. · It is fitted with an electronic regulator to control the speed of the stirrer. · A energy regulator adjust the heating of the hot plate. · The apparatus work on 220/230v ac. · Laboratory magnetic stirrer is finished in oven baked paint.
19	B.P. Apparatus Aneroid	10	<p>B.P. Apparatus</p> <p>Aneroid Sphygmomanometer Apparatus with wheels Mercury-free Square shape dial approx. 145mm x 145mm Adjustable height of stand Adjustable gradient for easy reading Five (5) wheels equipped with stopper for anti-slip mechanism Standard cotton cuff 2 tube adult latex bladder Standard latex bulb Air release valve with spring Standard end valve Spiral PVC tubing (1.8m).</p>
20	Stethoscope	8	Stethoscope (Standard)of good Quality.
21	Multimeter	1	Multimeter (Standard)
22	Razor Hone	2	<p>Razor Hone</p> <ul style="list-style-type: none"> · Razor Hone double sided (Coarse & Fine) motorized
23	Electric Hot Plate	2	Electric Hot Plate
24	Vortex mixer	1	<p>Vortex mixer</p> <p>Designed with a heavy cast aluminum body to provide optimum bench-top stability.</p> <ul style="list-style-type: none"> • The mixer has two modes of operation: Continuous operation when you need to mix a quantity of tubes in sequence; intermittent operation is activated by touching the cup attachment with a test tube. • Equipped with a single tube mixing cup for single tube mixing and a soft foam pad and mixing platform for mixing 1 - 4 test tubes simultaneously. • To be supplied with a fractional workable motor on 220V AC completed with indicator, plug & cord, Speed- 100-3000rpm, dimesions (LxWxH)- 17.7x11.4x15.2 cms.
25	Metabolic Cages (Dieuretic Study)	4	<p>Metabolic Cages (Dieuretic Study)</p> <ul style="list-style-type: none"> · Classic metabolism cages with electronics to monitor the receptacles for food & water. · Each may be removed without disturbing the animal. · Optional infrared beam arrays can be mounted on either side of the cage to monitor coordinate activity and rearing behavior. · Each cage is comprised of interchangeable parts which can be cleaned in a standard vivarium wash station.
26	Digital pH meter	1	<p>Digital pH meter</p> <ul style="list-style-type: none"> · Digital Electronic (Table/ hand held model); comprehensive range of PH meters which includes

			<p>digital PH meter, Hand held PH meter, PH testing meter etc.</p> <ul style="list-style-type: none"> · PH meters are made up using best quality parts and equipments. · PH Range: 0-14PH. · Mill Volt range: 0 to 1999mv. · Resolution: 0.01ph, 1mv. · Repeatability: +/- 0.01PH +/- 1mV. · Accuracy: 0.01 PH +/- 1 digit, 1mV +/- 1 digit. · Temperature compensation: 0 to 100deg C. · Operating temperature: 10 Deg C to 50 Deg C. · Display: 3.5 digit LED display. · Accessories: Electrode, Stand, dust cover and instruction manual.
27	Tablet Disintegration Machine Glass tubing (length of 6 ft.)	1	<p>Tablet Disintegration Machine Glass tubing (length of 6 ft.)</p> <ul style="list-style-type: none"> · Hooper diameter of minimum 2". · Should be fitted with min 4 steel hammers fixed to a disc and Shaft being revolved at the speed of 3000 RPM. · Rotation in vertical manner is made by FHP Motor which carries a specially designed Basket to hold 6 Nos. of Tablets/Capsules under specified weight, moving vertically in temperature controlled glass vessels/Beakers placed on Hot Plate. · having special type of starter facility operatable on 220 Volts AC supply.
28	Glass rods	10	Glass rods-assorted sizes of 6 ft.
29	Glass mortar & pestles	100	Glass mortar & pestles capacity of 500 and 200 cc Cork borer set of 12
30	Magnifying glass with metal handle	60	Magnifying glass with metal handle
31	Filtering apparatus sietz filter and Millipore filter	1 each	<p>Filtering apparatus sietz filter and Millipore filter</p> <ul style="list-style-type: none"> · Made from solid S.S. bar for effective filtration of all types of liquids. · Capacity min of 14cm to take 140mmfilter pad cap.500ml. · To be supplied with filter pads 50 nos.
32	Desiccators large size / small size	4	<p>Desiccators large size / small size used to protect chemicals which are hygroscopic or which react with water from humidity. It should be circular and made up of borosilicate glass. Both Vacuum & plan Desiccators are provided with a thick perforated Polypropylene disc with a big hole in the centre for easy lifting. The tiny holes in the disc provide air troughs & support to the dishes. However porcelain discs are advisable in case of incandescent crucibles.</p>
33	Vacuum Desiccators	1	Vacuum Desiccators

Sl. No. 8**Items for Department of Physiology**

Sl. No	Item Name	Qty.	Specifications
1	Electric Time makers, 100/sec.	6	Electric Time makers, 100/sec. Starling Long Extension Kymograph with time marker Should be having superior quality metal gears, accurate, mill cut ratio 40,10,2.5 & 0.625 mm per second, speed change clutch with intermediate off position, Cylinder 6X11'' with crown wheel engaging shaft. Turning by hand if necessary. Moving in slot in bed allowing variation in paper length for 60'' to 66''. Rigid cast Iron stand which should work up down by large screws with find adjustment facility. To be supplied with accessories: Double time marker. Mercury manometer, Separate smoking varnishing apparatus and smoking Burner
2	Tuning fork, time marker, 100/sec.	6	Tuning fork, time marker, 100/sec.
3	Electrodes, X-blocks, Burette clamps, Enamel bowls brass uprights, with coarse and fine adjustments basin, Spirit lamps, Copper wire (double cotton covered) Kymograph paper etc.	1 set	Electrodes, X-blocks, Burette clamps, Enamel bowls brass uprights, with coarse and fine adjustments basin, Spirit lamps, Copper wire (double cotton covered) Kymograph paper etc.
4	Volume Recorders	6	Volume Recorders
5	Animal weighing machine, for big animals	1	Animal weighing machine, for big animals Animal weighing scale; livestock scale: Slipproof -pan, waterproof-design, with railing and door. - High legs for rough ground.
6	Animal weighing machine, for small animals	1	Animal weighing machine, for small animals Animal weighing scale; livestock scale: Slipproof -pan, waterproof-design, with railing and door. · High legs for rough ground.
7	Mary's Tambour Traditional	20	Mary's Tambour Traditional (5cm to 10cm diameter)
8	Venus and arterial cannula	12	Venus and arterial cannula (different sizes) (each)
9	Varnishing outfit, for long and short papers	1	Varnishing outfit, for long and short papers
10	Anaesthesia boxes	1	Anaesthesia boxes
11	Surgical instruments for operative procedures, syringes, pulleys, etc.	1 set	Surgical instruments for operative procedures, syringes, pulleys, etc.
12	Demonstrations eye piece (Standard Type)	3	Demonstrations eye piece (Standard Type)
13	Double Demonstration eye	3	Double Demonstration eye piece

	piece		
14	Wastergen's Pipettes	35	Wastergen's Pipettes for E.S.R. on stand (with space pipettes)
15	Perimeter Priestly Smith	6	Perimeter Priestly Smith S/LP.984 B&T Charting the field of vision; with stand, metal arc; chin rest and chart paper etc
16	Haemocytometers	36	Haemocytometers
17	Sphygmomanometer	12	Sphygmomanometer Traditional with mercury manometer and armlet rubber bag or Riva Rocci cuff; Air pump; and Aneroid manometer.
18	Stethoscopes (Traditional)	12	Stethoscopes (Traditional)
19	Stethoscopes, Demonstration with Multiplear pieces	2	Stethoscopes, Demonstration with Multiplear pieces
20	Venus pressure apparatus	2	Venus pressure apparatus
21	Spirometer, Ordinary	6	Spirometer, Ordinary 1. It should be PC based and should operate on operating system version windows XP or more and should have minimal dead-space with pre-calibrated sensor. 2. System should be able to generate values for MVV, VC, Peak flow rate and other respiratory parameters of obstructive as well as restrictive lung diseases. 3. The system must be simple to operate, preferably on plug and play system. 4. Facility to have pre & post medication values as well as printing of reports. 5. It should preferably be able to consider and adjust values according to ethnic origin of patients. 6. Automatic device connection facility, integrated pdf generator facility preferably should be there 7. Its flow range should be between 0.03 to 20L/sec and volume range around 8L. 8. It should be equipped with compatible laptop/ desktop and printer
22	Douglas bag, complete	6	Douglas bag, complete
23	Erogograph Mosses's	6	Erogograph Mosses's Mosso's ergograph with metronome and weights. Ergograph containing the advantageous features of both bubios and mossos ergogrpah with weight set.
24	Clinical Thermometer (Traditional type)	12	Clinical Thermometer (Traditional type)
25	Compass	10	Compass compass aesthesiometer, stainless steel, with well -f formed points and adjusting scre giving movement of app: 01mm per half turn.
26	Thermanaesthesiometer	3	Thermanaesthesiometer Horse hair carried in a holder; hair length adjustable with graduated tube and protective

27	Algometer	3	Algometer For measuring pain threshold, Features: digital display of pain pressure threshold; range from 0.5 Kg/cm to 11 kg/cm. very fast and simple to use battery cum mains operation miniature pocket size 7X13X3cm.
28	Apparatus for passive movement	1	Apparatus for passive movement CPM is used to treat joints of the lower limb after an injury, disease or following surgery. Based on a concept originated by SALTER IN 1970, this device has varied applications namely treatment of intra articular fractures, septic arthritis, ligaments tendon healing and also following total joint replacement to ensure a sufficient range of motion. To prevent stiffening , the joint have to be moved continuously which results in the following. <ul style="list-style-type: none"> · Minimize swelling and pain after operation · Ensures faster recovery and shortened hospital stay · Prevents extra articular contractures and adhesions. Ext/Flex Angle indicator at knee position <ul style="list-style-type: none"> · Compact and elegant construction · Electronic controls enable all adjustment of angle to be made on the front panel. · Smooth and silent movement · Digital timer with alarm · Patient safety switch for stopping and reversing the motion. Specifications Treatment time 0 – 99 minutes Reset time 1 to 5 seconds Angle Extension 0 Power 230V/AC/50Hz, 75VA
29	Knee hammer	12	Knee hammer
30	Stethograph	10	Stethograph
31	Bicycle ergometer	4	Bicycle ergometer Work Load Range: 10 – 600Watt Independent Rpm: 20 – 130rpm Work Load range Dependent RPM Lap Time: 9h 59min 59sec Load Steps : 1 – 99 Watt Time Steps : 1 – 99 Min Load Programs: Manual 1 Load/Step PWC 170, 150, 130 HR Steady State Safety Protection Automatic Load: Heart rate Reduction: Blood pressure Blood Pressure D Acoustic signal: ECG Alarm Signal Manual : By Stop Button Check: Calibration

			<p>Dynamic Static Adjustments (Height): 83cm – 110cm Saddle: 68cm – 108mm Handle bars: free rotation Accuracy of load: 2% or 3 Watt Input/output External Control: RS - 232 Inputs: Analogue control Start signal Heart rate Blood pressure s Blood pressure D ECG Alarm Outputs: work load Pedaling Speed Step Marker Power supply: 110 – 240V, 50 – 60Hz Power consumption: 100VA Safety Standard: class 1, CE Dimensions (cm): Base plate 79X48 Weight: approx 46Kg</p>
32	Olfactometer	1	<p>Olfactometer choice arena olfactometer (OLFM), complete; 12”X12”X1”, 4 – port/4choice arena olfactometer w/removable lid. Main body and all inlet and outlet ports made from solid UHMW – Poly ethylene (PE) with 3/8” thick clear plexighas removable lid. System includes an insect inlet adapter (Note: specify inset size at time of order) and all (4) glass, 2 piece combination internal odor source (IOS) adapterand insect isolation traps which collect insects responding to an odor source and prevents them from returning into the arena. Unit also includes a 2-choice adapter insert which allows the olfactometer to be converted to a two choice system by blocking off half of the arena area. Olfactometer is supported by (4) – 6” removable legs.</p>
33	Ophthalmoscope	2	<p>Ophthalmoscope - set of direct ophthalmoscope and retinoscope</p>
34	Schematic eye	2	Schematic eye
35	Phakoscope	1	<p>Phakoscope - an instrument for viewing accommodative changes of the eye lens</p>
36	Colour percetion lantern Edridge Green	1	Colour percetion lantern Edridge Green
37	Maddox rod for screen test	1	<p>Maddox rod for screen test; - Maddox rod lens; red/white/green rim and amp; handle material: copper handle; length: 70mm,</p>
38	Newtons colour wheel	1	Newtons colour wheel

39	Tuning Forks to test hearing 32 - 10,000 cps (sets)	2	Tuning Forks to test hearing 32 - 10,000 cps (sets)
40	Dynamometer	1	Dynamometer Especially suitable for use in rehabilitation centers/physiology labs; Real time mode: immediately shows the patients current strength Peak/Max Mode: shows the maximum strength of a patient's grip Average Mode: calculates the average strength from two grips Counting mode: counts the numbers of presses which exceed a previously defined strength limit; integrated AUTO – OFF function after 1 minute to preserve the batteries; as part of a rehabilitation program, this permits medical staff to monitor the fitness of the patients hands and carry out controlled training exchangeable springs facilitate fast switching of the capacity (Additional spring sets for 20Kg and 40Kg are included with delivery); safe, comfortable use thanks to non slip rubber grips Stable case for safe, easy transport and for storage of the additional spring sets as standard, WDXH: 350X265X85mm
41	Otorhinolaryngoscope	3	Otorhinolaryngoscope
42	Sterilizer Electric, (Medium Size) 300X150X100mm	2	Sterilizer Electric, (Medium Size) 300X150X100mm
43	Instrument Trolley of stainless steel with three shelves with guard rails on three side	1	Instrument Trolley of stainless steel with three shelves with guard rails on three side -With swivel castors Small:- 66x44x87cm (LxWxH) Large:- 91x45x82cm (LxWxH)
44	Stop watches reading at 1/5 second with LED/LCD display reading at 1/5 display	6	Stop watches reading at 1/5 second with LED/LCD display reading at 1/5 display
45	Electronic stimulator	1	Electronic stimulator Thomas Selectable pulse per second in different steps and pulse width, continuous variable volt in multiple of 1 & 10 with Internal, External and Single pulse mode.
46	Water distillation still, with spare heating elements	1	Water distillation still, with spare heating elements
47	Weighing Machine (Digital)	2	Weighing Machine (Digital)
48	Micro slides (standard Type)	1000	Micro slides (standard Type)

Sl. No. 9**Glassware & Lab items**

Glassware & Lab items of following specification. All glass items should be made of Heat resistant Borosilicate Glass. (Make: Borosil/Corning/Duran).

Sl. No.	Item name/ Specifications	Qty.
1	Beaker, 100 ml	1500
2	Beaker, 250 ml	1500
3	Beaker, 500 ml	1500
4	Bottle for reagent, 100 ml	3000
5	Bottle for reagent, Amber, 100 ml	3000
6	Measuring cylinder, 1000 ml	100
7	Pipettes, 5 ml	1500
8	Pipettes, 10 ml	1500
9	Test tubes, with rim, more than 7 ml	6000
10	Test tubes, without rim, more than 7 ml	6000
11	Test tube stand	1500
12	Filters papers, Circular	100 packets
13	Plastic trays	100
14	Glass Rods	3000
15	Glass Slides	6000

SECTION – VIII

This Section is deleted

SECTION – IX

This Section is deleted

SECTION – X

TENDER FORM

Date _____

To

Head (P&CD), HLL Lifecare Limited, Procurement and Consultancy Division, B-14 A, Sector - 62, Noida -201307, Uttar Pradesh

Ref. Your TE document No. _____ dated _____

We, the undersigned have examined the above mentioned TE document, including amendment/corrigendum No. _____, dated _____ (if any), the receipt of which is hereby confirmed. We now offer to supply and deliver _____ (*Description of goods and services*) in conformity with your above referred document for the sum mentioned in the price bid uploaded online, made part of this tender.

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

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

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

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

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

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

(Signature with date)

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

SECTION – XI**PRICE SCHEDULE**

1	2	3	4	5					6
				Price per unit (Rs.)					
				Ex-factory/ Ex - warehouse/ Ex- showroom/ Off-the shelf (a)	Excise Duty (if any)		Sales Tax/ VAT (if any)		
[%] (b)	[value] (c)	[%] (d)	[value] (e)						
1									
2									
3									
...									
...									
Grand total (total value of all the items at Consignee Site basis):									

Total Tender price (Grand total) in Rupees: _____

In words: _____

Note: -

- 1) Individual price for all the items in the tender must be quoted, failing which the tender is liable to be rejected.
- 2) Comparison/ranking of price bids shall be based on the total tender price (sum total of all the items value) at Consignee Site basis.
- 3) If there is a discrepancy between the unit price and total price THE UNIT PRICE shall prevail and total shall be corrected.

Name _____

Business Address _____

Place: _____

Signature of Tenderer _____

Date: _____

Seal of the Tenderer _____

SECTION – XII

QUESTIONNAIRE

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

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

SECTION – XIII

BANK GUARANTEE FORM FOR EMD

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

- 1) If the Tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.
- 2) If the Tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-
 - fails or refuses to furnish the performance security for the due performance of the contract or
 - fails or refuses to accept/execute the contract or
 - if it comes to notice that the information/documents furnished in its tender is incorrect, false, misleading or forged

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

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

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

.....
Name and designation of the officer

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

SECTION – XIV

This Section is deleted

SECTION – XV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY

The Medical Superintendent
Dr. BABA Saheb Ambedkar Hospital
Sector VI, Rohini, New Delhi – 110085

WHEREAS _____ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no _____ dated _____ to supply (description of goods and services) (herein after called “the contract”).

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

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

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

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

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

This guarantee shall be valid up to 16 (sixteen) months from the date of Notification of Award i.e. up to ----- (indicate date)

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

.....
Name and designation of the officer

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

SECTION – XVI

This Section is deleted

SECTION – XVII

This section is deleted

SECTION – XVIII

**PROFORMA OF FINAL ACCEPTANCE CERTIFICATE BY THE
CONSIGNEE**

No _____

Date _____

To

M/s (Name and address of the supplier)

_____**Subject:** Certificate of final acceptance of equipment

01. This is to certify that the equipment 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) NoA/Contract No _____ dated _____

(b) Description of the equipment and quantity: *(list may be enclosed for many items)*

(c) Supplier's Challan /Invoice no. with date: _____

(d) Bill of Loading/Air Way Bill/Railway Receipt/ Goods Consignment Note no.
(if any) _____ dated _____

(e) Name of the vessel/Transporters: _____

(f) Name of the Consignee: _____

(g) Date of Receipt by the Consignee: _____

(h) Date of commissioning and proving test (if applicable): _____

02. 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.

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 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.

- c) The supplier as specified in the contract has not done training of personnel.
- d) The extent of delay for each of the activities to be performed by the supplier in terms of the contract is ____
- e) The amount of recovery on account of non-supply of accessories and spares is given under Para no.02.
- f) The amount of recovery on account of failure of the supplier to meet his contractual obligations is _____ (here indicate the amount).

(Signature of Authorized Representative of Consignee with date)

(Name)

(Designation with stamp)

(Counter Signed by Director/MS/Dean of the concerned Hospital/Institute)

Explanatory notes for filling up the certificate:

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

SECTION – XIX

AFFIDAVIT/UNDERTAKING

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

Date:

(Signature of the bidder)

(Name & address of the bidder)

Note: *To be submitted on non-judicial stamp paper of Rs. 10/- duly certified by Public Notary. This document must be submitted online and original to be submitted with physical submission of bid.*

Section – XX**CHECKLIST**

Sl No.	Description
1. a.	Have you enclosed EMD of required amount for the quoted schedules?
b.	In case EMD is furnished in the form of Bank Guarantee, has it been furnished as per Section XIII?
c.	In case Bank Guarantee is furnished, have you kept its validity of 165 days from Techno Commercial Tender Opening date as per clause 19 of GIT?
2.	Have you enclosed duly filled Tender Form as per format in Section X?
3.	Are you a SSI unit, if yes have you enclosed certificate of registration issued by Directorate of Industries/NSIC
4. a.	Have you enclosed clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications along with original catalogue/brochures?
b.	In case of Technical deviations in the compliance statement, have you identified and marked the deviations?
5.	Have you kept validity of 120 days from the Techno Commercial Tender Opening date as per the TE document?
6.	Have you furnished Income Tax Account No. as allotted by the Income Tax Department of Government of India?
7.	Have you intimated the name and full address of your Banker (s) along with your Account Number
8.	Have you fully accepted payment terms as per TE document?
9.	Have you accepted delivery period as per TE document?
10.	Have you submitted the certificate of incorporation?
11.	Have you accepted the warranty?
12.	Have you accepted terms and conditions of TE document?
13.	Have you furnished documents establishing your eligibility & qualification criteria as per TE documents?
14	Have you furnished Annual Report (Balance Sheet and Profit & Loss Account) for last three years prior to the date of Tender opening?
15	Have you enclosed the Affidavit as per Section XIX of the TE document?

N.B.

- (i) The Tenderer may go through the checklist and ensure that all the documents/confirmations listed above are enclosed in the tender.
- (ii) It is the responsibility of tendered to go through the TE document to ensure furnishing all required documents in addition to above, if any.

Section – XXI

CONSIGNEE

Consignee Code	Medical Institutions	Contact Address.
BSAH	Dr. BABA Saheb Ambedkar Hospital	The Medical Superintendent, Dr. BABA Saheb Ambedkar Hospital Sector VI, Rohini, New Delhi – 110085

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