

BIDDING DOCUMENT

(Two Bid System for Machinery & Equipment)

FOR
NATIONAL CANCER INSTITUTE
ALL INDIA INSTITUTE OF MEDICAL SCIENCES
(JHAJJAR CAMPUS)

NIB Ref: HITES/PCD/NCI-AIIMS/44/19-20



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SECTION - I**NOTICE INVITING BIDS (NIB)****ALL INDIA INSTITUTE OF MEDICAL SCIENCES**

Ansari Nagar, New Delhi-110 029

NIB Ref: HITES/PCD/NCI-AIIMS/44/19-20**Dated: 05.12.2019**

Procurement & Consultancy Services Division of **HLL INFRA TECH SERVICES LIMITED** (a fully owned subsidiary of HLL Lifecare Ltd., a Govt. of India Enterprise) for and on behalf of **Director, AIIMS - New Delhi**, invites e-tenders in two bid system (technical and price bid) from the reputed, eligible & qualified firms/ manufacturers for purchase/supply of following goods at **National Cancer Institute-AIIMS, Jhajjar, Haryana**.

Sl. no.	Tender ID	Short Description of goods	Quantity (Nos.)	Bid Security (BS) (Rs.)	Tender Processing Fee incl. GST (Rs.)
1	2019_HLL_37262_1	Portable Blood Donor Couch	4	12,000	590
2	2019_HLL_37262_2	Blood Collection Monitor	8	32,000	590
3	2019_HLL_37262_3	Blood Donor Couch	15	90,000	1,770
4	2019_HLL_37262_4	Blood Bank Refrigerator - 400 L	3	36,000	590
5	2019_HLL_37262_5	Platelet Agitator cum Incubator (Upright Model, 150-200 random donor platelet units)	1	12,000	590
6	2019_HLL_37262_6	Platelet Agitator cum Incubator (Upright Model, 48 random donor platelet units)	2	8,000	590
7	2019_HLL_37262_7	Deep Freezer (-40° C) 400 L	3	36,000	590
8	2019_HLL_37262_8	Deep Freezer (-80° C) 400 L	2	32,000	590
9	2019_HLL_37262_9	Dielectric Tube sealer (Bench top)	2	6,000	590
10	2019_HLL_37262_10	Sterile Connecting Device	2	28,000	590
11	2019_HLL_37262_11	Apheresis Machine	7	4,20,000	2,950
12	2019_HLL_37262_12	Dielectric Tube Sealer - Handheld	2	6,000	590
13	2019_HLL_37262_13	Haemostatic Analyzer	1	24,000	590
14	2019_HLL_37262_14	Refrigerated Blood Bag Centrifuge	2	1,20,000	1,770
15	2019_HLL_37262_15	Bio-Safety Cabinet	3	24,000	590
16	2019_HLL_37262_16	Table Top Centrifuge	5	15,000	590
17	2019_HLL_37262_17	Cooling Table	3	18,000	590
18	2019_HLL_37262_18	Automated 5-part blood cell counter	1	30,000	590
19	2019_HLL_37262_19	Coagulation Analyzer	1	10,000	590
20	2019_HLL_37262_20	Wireless Data Loggers	18	9,000	590

21	2019_HLL_37262_21	Lab Autoclave	1	4,000	590
22	2019_HLL_37262_22	Reagent Refrigerator	3	15,000	590
23	2019_HLL_37262_23	Aggregometer	1	14,000	590
24	2019_HLL_37262_24	Bacterial Detection System	1	30,000	590
25	2019_HLL_37262_25	Blast Freezer	1	80,000	1,770
26	2019_HLL_37262_26	Walk-in modular cold room	1	30,000	590
27	2019_HLL_37262_27	Binocular Microscope	1	10,000	590
28	2019_HLL_37262_28	Micro pipette set (Manual adjustable)	4	24,000	590
29	2019_HLL_37262_29	Blood Bank Software	1	90,000	1,770
30	2019_HLL_37262_30	Automatic Nucleic Acid Testing System	1	5,00,000	2,950
31	2019_HLL_37262_31	Fully Automated Random Access Chemiluminescence	2	1,60,000	1,770
32	2019_HLL_37262_32	Fully Automated Random Access Immuno-Haematology (IH) Platform	2	1,80,000	1,770
33	2019_HLL_37262_33	Biological X-Ray based Blood Irradiator	1	6,00,000	2,950
34	2019_HLL_37262_34	Mobile Blood Donation Van	1	2,00,000	2,950
Last date and time of submission of online tender				03.01.2020 at 02:00 PM	
Last date and time of physical submission of EMD, Tender processing Fee, etc. as specified in the Bidding Document				04.01.2020 at 02:00 PM	
Date and time of tender opening				04.01.2020 at 02:30 PM	
Contact Person			DVP (PCD), HITES Email: hll.ncij@hllhites.com		
<p>2. No Pre-Bid meeting will be conducted for the above mentioned tenders.</p> <p>3. Interested bidders are advised to download the complete Tender Enquiry document from the websites www.hllhites.com or www.lifecarehll.com or https://etenders.gov.in/e procure/app for complete details.</p> <p>4. Bidders shall ensure that their tender(s), complete in all respects, are submitted online through CPPP website: https://etenders.gov.in/e procure/app only.</p> <p>5. The Bidder shall download the Bidding Document directly from the designated websites and shall not tamper/modify it including downloaded Price Bid template in any manner. In case if the same is found to be tempered/modified in any manner, Tender/Bid will be summarily rejected and EMD would be forfeited.</p> <p>6. Bidders are advised to follow the instructions, for registering and online submission of their bid(s), as provided in the CPPP website and are requested to read them carefully before proceeding for bidding.</p> <p>7. Bidders should be in possession of valid Digital Signature Certificate (DSC) of class III for online submission of bids. Prior to bidding, DSC need to be registered on the website mentioned above.</p>					

8. The bidders shall submit the required Tender Processing Fee (in form of Demand Draft or Banker's Cheque) and EMD (as per GIT clause no. 19.3) in physical form in favour of **'HLL Infra Tech Services Limited'** at the scheduled time and venue. Tender processing Fee is required from all the bidders irrespective of their registration with NSIC or any other Govt. Organisation.
9. **Tender Processing Fee and Bid Security (BS) in original** should be deposited, within the scheduled latest date & time of tender submission as mentioned above, in the Tender Box located at: **HLL Infra Tech Services Limited, Procurement and Consultancy Services Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh**, failing which the bid shall be summarily rejected.
10. Prospective bidders are advised to browse the above websites regularly before submission of their bids as any further amendments will be published in these websites only.

CEO (HITES)

SECTION - II**GENERAL INSTRUCTIONS TO BIDDERS (GIB)
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GENERAL INSTRUCTIONS TO BIDDERS (GIB)**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 HLL INFRA TECH SERVICES LIMITED (HITES) for and on behalf of The Director, AIIMS, New Delhi.
- ii. "Bid" means Quotation / Tender received from a Firm / Tenderer / Bidder.
- iii. "Bidder" means Tenderer/ the Individual or Firm submitting Bids / Quotation / Tender
- iv. "Supplier" means the individual or the firm supplying the goods and services as incorporated in the contract/purchase order.
- v. "Goods" means all articles, material, commodity, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, vehicles, medicines, assemblies, sub-assemblies, accessories, intangible products like software, technology transfer, licenses, patents or other intellectual properties purchased or otherwise acquired for the use of Government but excludes books, publications, periodicals, etc. for a library. The term 'goods' also includes works and services which are incidental or consequential to the supply of such goods, such as, transportation, insurance, installation, commissioning, training and maintenance.
- vi. "Services" means services allied and incidental to the supply of goods, such as transportation, installation, commissioning, provision of technical assistance, training, after sales service, maintenance service and other such obligations of the supplier covered under the contract.
- vii. "Bid Security" (BS) means Earnest Money Deposit / monetary or financial guarantee to be furnished by a bidder along with its tender.
- viii. "Contract" means the written agreement entered into between the purchaser and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.
- ix. "Performance Security" means monetary or financial guarantee to be furnished by the successful bidder for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
- x. "Consignee" means the Center/Hospital/Department/Sections /person to whom the goods are required to be delivered as specified in the Contract.
- xi. "Specification" also called Technical Specifications means the document/standard that prescribes the requirement with which goods or service has to conform.
- xii. "Inspection" means activities such as measuring, examining, testing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement mentioned in the contract to determine conformity.
- xiii. "Day" means calendar day.

1.3 Abbreviations:

- (i) "NIT" means Notice Inviting Tenders.
- (ii) "GIB" means General Instructions to Bidders
- (iii) "SIT" means Special Instructions to Bidders

- (iv) "GCC" means General Conditions of Contract
- (v) "SCC" means Special Conditions of Contract
- (vi) "LC" means Letter of Credit
- (vii) "DP" means Delivery Period
- (viii) "BG" means Bank Guarantee
- (ix) "GST" means Goods & Service Tax
- (x) "CD" means Custom Duty
- (xi) "BL" means Bill of Lading
- (xii) "FOB" means Free on Board
- (xiii) "CIF" means Cost, Insurance and Freight
- (xiv) "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.
- (xv) "INCOTERMS" means International Commercial Terms as on the date of Bid Opening
- (xvi) "CAMC" means Comprehensive Annual Maintenance Contract (labour, spare and preventive maintenance)

2. Introduction

- 2.1 The Purchaser has issued these Bidding 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 Instructions to Bidders") provides the relevant information as well as instructions to assist the prospective bidders in preparation and submission of bids. It also includes the mode and procedure to be adopted by the bidder for receipt and opening as well as scrutiny and evaluation of bids and subsequent placement of contract.
- 2.3 The bidder shall also read the Special Instructions to Bidders (SIB) related to this purchase, as contained in Section III of these documents and follow the same accordingly. Whenever there is a conflict between the GIB and the SIB, the provisions contained in the SIB shall prevail over those in the GIB.
- 2.4 Before formulating the bid and submitting the same to the purchaser, the bidder should read and examine all the terms, conditions, instructions, checklist etc. contained in the Bidding Document. Failure to provide and/or comply with the required information, instructions etc. incorporated in these Bidding Documents may result in rejection of its Bid.

3. Availability of Funds

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

4. Language of Bid

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

5. Eligible Bidders

- 5.1 This Invitation for Tenders is open to all bidder who fulfil the eligibility criteria specified in these documents.

6. Eligible Goods and Services

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

7. Bid Expense

- 7.1 The bidder shall bear all costs and expenditure incurred and/or to be incurred by it in connection with its bid including preparation, mailing and submission of its bid 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 bidding process.

B. TENDER ENQUIRY DOCUMENTS**8. Content of Tender Enquiry Documents**

- 8.1 In addition to Section I – “Notice Inviting Bid” (NIB), the Bidding Documents include:

Section II	– General Instructions to Bidders (GIB)
Section III	– Special Instructions to Bidders (SIB)
Section IV	– General Conditions of Contract (GCC)
Section V	– Special Conditions of Contract (SCC)
Section VI	– List of Requirements
Section VII	– Technical Specifications& General Points
Section VIII	– Qualification Criteria
Section IX	– Bid Form
Section X	– Price Schedules
Section XI	- Check List
Section XII	– Bank Guarantee Form for Bid Security
Section XIII	– Manufacturer’s Authorization Form
Section XIV	– Bank Guarantee Form for Performance Security/CAMC Security
Section XV	– Contract Forms A & B
Section XVI	– Proforma of Consignee Receipt Certificate
Section XVII	– Proforma of Consignee Acceptance Certificate by the consignee
Appendix A	– Integrity Pact

- 8.2 The relevant details of the required goods and services, the terms, conditions and procedure for bidding, bid 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 bidders are expected to examine all such details etc to proceed further.

9. Amendments to a Bidding documents

- 9.1 At any time prior to the deadline for submission of bids, the purchaser may, for any reason deemed fit by it, modify the Bidding Documents by issuing suitable amendment(s) to it.
- 9.2 Such an amendment will be notified through CPPP (eprocure.gov.in/cppp) and/or www.hllhites.com and/or www.lifecarehll.com and will be binding on them.
- 9.3 In order to provide reasonable time to the prospective bidders to take necessary action in preparing their bids as per the amendment, the purchaser may, at its discretion extend the deadline appropriately for the submission of bids and other allied time frames, which are linked with that deadline.

10. Clarification of Bid document

- 10.1 A bidder requiring any clarification or elucidation on any issue of the Bidding Documents may take up the same with the purchaser in writing. The purchaser will respond in writing to such request provided the same is received by the purchaser not later than ten days (unless otherwise specified in the SIB) prior to the prescribed date of submission of Bids.

C. PREPARATION OF BIDS

11. Documents comprising the e-Bid

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

A) Techno-commercial Bid (Un-priced Bid)

(Bidders shall furnish the following information along with technical tender in pdf format):

- i) Bid Security furnished in accordance with GIB clause 19.1 alternatively, documentary evidence as per GIB clause 19.2 for claiming exemption from payment of Bid Security.
- ii) Bid Form as per Section IX (without indicating any price).
- iii) Documentary evidence, as necessary in terms of clauses 5 and 17 of GIB establishing that the bidder is eligible to submit the bid and, also, qualified to perform the contract if its bid is accepted.
- iv) Bidder who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorisation Form. While giving authorization to agent, to quote on their behalf, manufacturer has to give the reasons for not quoting directly against this bid in the Manufacturer's Authorisation Form.
- v) Power of Attorney in favour of the signatory who is digitally signing the bidding documents and signatory of Manufacturer's Authorization Form.
- vi) Documents and relevant details to establish in accordance with GIB clause 18 that the goods and the allied services to be supplied by the bidder conform to the requirement of the bidding documents.
- vii) Performance Statement as per section VIII along with relevant copies of orders and end users' satisfaction certificate.
- viii) Price Schedule(s) as per Section X filled up with all the details including Make, Model etc. of the goods offered with prices blank (without indicating any prices).
- ix) Documents confirming to Sole Proprietorship/Partnership/Private Limited Firm in the country of origin as the case may be.

- x) Checklist as per Section XI.
- xi) Copies of GST registration certificate and PAN Card.
- xii) Copies of annual report, audited balance sheet and profit & loss account as per tender requirement.
- xiii) Non conviction/no pending conviction certification issued by Notary on non-judicial stamp paper for preceding three years.
- xiv) A declaration that bidder does not have any relation with the person authorized to evaluate technically or involve in finalizing the tender or will decide the use of tendered items.
- xv) Technical and Commercial Compliance statement in excel format provided in the e-tender portal.
- xvi) Product catalogues/original Data Sheets for all quoted items.
- xvii) Copies of quality certificates, if applicable, namely, BIS, ISO, FDA, CE, etc.
- xviii) The Integrity pact (At Appendix-A) on non-judicial stamp paper shall be a part and parcel of this document and has to be signed by bidder(s) at the pre-tendering stage itself, as a pre-bid obligation and should be submitted along with the Techno-Commercial Bids. All bidders are bound to comply with the integrity pact clauses.

B) Price Tender:

Price Schedule(s) as per format provided in the portal, duly filled in with all the details including Make, Model, HSN Code etc. of the goods offered, is to be uploaded.

The price bid format is provided in excel format along with this Bidding Document at <https://etenders.gov.in/eprocure/app>

Bidders are advised to download this Price Bid Format as it is and quote their offer/rates in the permitted column and upload the same in the Price Bid. **Bidder shall not tamper/modify the downloaded price bid template in any manner.** The Instruction given in the Price Bid Format shall strictly be adhered to.

Note:

The tender Processing fee, BID SECURITY and **Integrity Pact (Appendix A) on non-judicial stamp paper** has to be submitted in physical form as per Section – I, Notice Inviting Tender of this tender enquiry.

11.2 The authorized signatory of the bidder must sign the bid duly stamped at appropriate places and initial all the remaining pages of the bid. Individuals signing the bid or other documents connected with a contract must specify whether he signs as:

- i. A 'Sole Proprietor' of the firm or constituted attorney of such Sole Proprietor.
- ii. In case of partnership firm he must have authority to quote & to refer to arbitration dispute concerning the business of the partnership either by virtue of the partnership agreement or a power of attorney;
- iii. Constituted attorney of the firm if it is a company.

Note:

- 1. In case of (ii) above, a copy of the partnership agreement duly registered with "Registrar of Firm's" or general power of attorney, in either, case, attested by a Notary Public should be furnished, or affidavit on stamped paper of all the partners admitting execution of the partnership agreement or the general power of attorney should be furnished.

2. In case of the partnership firms, where no authority to refer disputes concerning the business of the partnership has been conferred on any partner, the bid and all other related documents must be signed by every partner of the firm.
3. A person signing the bid 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, liable for rejection of bid or cancel of contract and hold the signatory liable for all cost and damages.

11.3 A bid, 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.

12. Bid Currencies

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

12.2 For imported goods if supplied directly from abroad, prices shall be quoted in any freely convertible currency say US Dollar, Euro, GBP or Yen. As regards price(s) for allied services, if any required with the goods, the same shall be quoted in Indian Rupees only, if such services are to be performed/undertaken in India. Commission for Indian Agent, if any and if payable shall be indicated in the space provided for in the Price Schedule and will be payable in Indian Rupees only after satisfactory supply, installation and acceptance of the goods. The rate of conversion shall be taken as on the date of placement of purchase order.

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

13 Bid Prices

13.1 The Bidder shall indicate on the Price Schedule provided under Section X all the specified components of prices shown therein including the unit prices, applicable taxes and total bid prices of the goods and services it proposes to supply against the requirement. All the columns shown in the Price Schedule should be filled up as required.

13.2 If there is more than one schedule in the "List of Requirements", the bidder has the option to submit its bid for any one or more schedules and, also, to offer special discount for combined schedules. However, while quoting for a schedule, the bidder shall quote for the complete requirement of goods and services as specified in that particular schedule.

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

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

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

- a) The price of the goods, quoted ex-factory/ ex-showroom/ ex-warehouse/ off-the-shelf, as applicable, including packing charges and GST and Custom Duty already paid or payable on the components and raw material used in the manufacture or assembly of the goods quoted ex-factory etc. or on the previously imported goods of foreign origin quoted ex-showroom etc;
- b) Any taxes and duty, which will be payable on the goods in India if the contract is awarded;
- c) Charges towards Inland Transportation, Insurance (local transportation and storage) would be borne by the Supplier from ware house to the consignee site for a period including 3 months beyond date of delivery, Loading/Unloading and other local costs incidental to delivery of the goods to their final destination as specified in the List of Requirements and Price Schedule;
- d) The price of Incidental Services (including installation & commissioning, supervision, demonstration and training), at the consignee site as mentioned in List of Requirements, Technical Specification and Price Schedule;
- e) The prices of Turnkey Work (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
- f) The price of CAMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

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

- a) The price of goods quoted on FOB at port/ FCA at airport of shipment, as mentioned in List of Requirements, Technical Specification and Price Schedule
- b) The amount of Freight and Insurance (port of loading to port of entry) and other incidental costs.
- c) The price of Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training) at the Consignee's site as mentioned in List of Requirements, Technical Specification and Price Schedule.
- d) The price of Extended Insurance (local transportation and storage) from port of entry to the consignee site for a period including 3 months beyond date of delivery.
- e) The Unit Price on CIP Name port of Destination + Extended Insurance (local transportation and storage)
- f) The price of total Price on CIP Named port of Destination +Insurance (local transportation on and storage)
- g) The prices of Turnkey Work (if any), as mentioned in List of Requirements, Technical Specification and Price Schedule; and
- h) The price of CAMC, as mentioned in List of Requirements, Technical Specification and Price Schedule.

13.5 Additional information and instruction on Taxes and Duties:

13.5.1 GST (Goods & Services Tax)

If the bidder desires to ask for GST (goods and services tax) to be paid extra, the same must be specifically stated. In the absence of any such stipulation, the price will be taken inclusive of GST and no claim for the same will be entertained later.

13.5.2 Customs Duty

The Purchaser will pay the Customs duty wherever applicable.

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- 13.6 For transportation of imported goods offered from abroad, relevant instructions as incorporated under GCC Clause 10 shall be followed.
- 13.7 For insurance of goods to be supplied, relevant instructions as provided under GCC Clause 11 shall be followed.
- 13.8 Unless otherwise specifically indicated in this Bidding Document, the terms FCA, FOB, CIF, CIP etc. for imported goods offered from abroad, shall be governed by the rules & regulations prescribed in the current edition of INCOTERMS - 2010, published by the International Chamber of Commerce, Paris
- 13.9 The need for indication of all such price components by the bidders, as required in this clause (viz., GIB clause 13) is for the purpose of comparison of the bids by the purchaser and will no way restrict the purchaser's right to award the contract on the selected bidder on any of the terms offered.

14. Indian Agent

- 14.1 If a foreign bidder has engaged an agent in India in connection with its bid, the foreign bidder, in addition to indicating Indian agent's commission, if any, in a manner described under GIB sub clause 12.2 above, shall also furnish the following information:
- a) The complete name and address of the Indian Agent.
 - b) The details of the services to be rendered by the agent for the subject requirement.
 - c) Details of Service outlets in India, nearest to the consignee(s), to render services during Warranty and CAMC period.

15. Firm Price

- 15.1 Unless otherwise specified in the SIB, prices quoted by the bidder 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 GIB clause 13 will apply.

16. Alternative Models

- 16.1 Alternative Models are permitted. The Bidder can quote alternate models meeting the specifications of the bidding document of same manufacturer with single Bid Security.
- 16.2 If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same ATE for the same item/product. In a bid, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously for the same models in the same ATE.
- 16.3 One Principal/OEM cannot authorize two agents simultaneously for the same item against same ATE.

17 Documents Establishing Bidder's Eligibility and Qualifications

- 17.1 Pursuant to GIB clause 11, the bidder shall furnish, as part of its bid, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its bid is accepted.
- 17.2 The documentary evidence needed to establish the bidder's qualifications shall fulfill the following requirements:
- a) In case the bidder offers to supply goods, which are manufactured by some other firm, the bidder has been duly authorised by the goods manufacturer to quote for and supply the goods to the purchaser. The bidder shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XIII in this document.
 - b) In case the bidder is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question, stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.

18. Documents establishing good's Conformity to Bidding Document.

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

19. Bid Security (BS)

- 19.1 Pursuant to GIB clauses 8.1 and 11.1 A (i) the bidder shall furnish along with its bid, Bid Security for amount as shown in the Notice Inviting Bids (NIB). The Bid Security is required to protect the purchaser against the risk of the bidder's unwarranted conduct as amplified under sub-clause 19.7 below.
- 19.2 The bidders who are currently registered with MSME for the specific goods as per bidding document specification shall be eligible for exemption from Bid Security as defined in MSE Procurement Policy issued by the department of MSME. In case the bidder falls in this category, the bidder shall enclose relevant certificate of registration issued by department of MSME.
- 19.3 The Bid Security shall be denominated in Indian Rupees or equivalent currencies as per GIB clause 12.2. The Bid Security shall be furnished in one of the following forms:

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

- 19.4 The **Demand Draft** or **Banker's Cheque** or **Fixed Deposit Receipt** shall be drawn on any commercial bank in India or country of the bidder, in favour of the "....."(as indicated in the NIB) payable at New Delhi. In case of **Bank Guarantee**, the same is to be provided from any commercial bank in India or country of the bidder as per the format specified under Section XII in this document.
- 19.5 The Bid Security shall be valid for a period of forty-five (45) days beyond the validity period of the bid. As validity period of Bid as per Clause 20 of GIB is 270 days, the Bid Security shall be valid for 315 days from Techno-Commercial Bid opening date.
- 19.6 The Bid Security of unsuccessful bidders will be returned without any interest, after expiry of the bid validity period, but not later than thirty days after conclusion of the resultant contract. The Bid Security of successful bidder will be returned without any interest, after receipt of performance security from that bidder.
- 19.7 Bid Security is required to protect the purchaser's right against the risk of the Bidder's conduct, which would warrant the forfeiture of the Bid Security. Bid Security of a bidder will be forfeited, if the bidder withdraws or amends its bids or impairs or derogates from the bid in any respect within the period of validity of its bid or if it comes to the notice that the information/documents furnished in its bid is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The Bid Security of the successful bidder will be forfeited without prejudice to other rights of Purchaser if it fails to furnish the required performance security within the specified period.
- 19.8 In the case of Bank Guarantee furnished from banks outside India (i.e. foreign Banks), it should be authenticated and countersigned by any nationalized bank in India by way of back-to-back counter guarantee and the same should be submitted along with the bid.

20. Bid Validity

- 20.1 If not mentioned otherwise in the SIB, the bid shall remain valid for acceptance for a period of 270 days (Two hundred and Seventy days) after the date of bid opening prescribed in the Bidding Document. Any bid valid for a shorter period shall be treated as unresponsive and rejected.
- 20.2 In exceptional cases, the bidder may be requested by the purchaser to extend the validity of their bids up to a specified period. Such request(s) and responses thereto shall be conveyed by mail/fax/email. The bidders, who agree to extend the bid validity, are to extend the same without any change or modification of their original bid and they are also to extend the validity period of the Bid Security accordingly. A bidder, who may not agree to extend its bid validity after the expiry of the original validity period, their bid will not be considered further and the Bid Security furnished by them shall be returned.
- 20.3 In case the day up to which the bids are to remain valid falls on/subsequently declared a holiday or closed day for the purchaser, the bid validity shall automatically be extended up to the next working day.

21. Signing and Sealing of Bid

- 21.1 The bidders shall submit their bids online as per the instructions contained in GIB Clause 11 and any other specific instruction mentioned in the CPPP portal using the digital signature.
- 21.2 Unless otherwise mentioned in the SIB, a bidder shall submit their bid online only.
- 21.3 The Bid shall either be typed or written in indelible ink and the same shall be signed by the bidder or by a person(s) who has been duly authorized. The letter of authorization shall be by a written power of attorney, which shall also be furnished along with the bid.
- 21.4 All the documents of the bid shall be duly signed at the appropriate places as indicated in the Bidding Documents and all other pages of the bid including printed literature (if any), shall be initialled and stamped by the same person(s) signing the bid. The bid shall not contain any eraser or overwriting, except as necessary to correct any error made by the bidder and, if there is any such correction; the same shall be initialled and stamped by the person(s) signing the bid.
- 21.5 The bidder is to seal the bid and writing the address of the purchaser and the bid reference number on the envelopes. The sentence "NOT TO BE OPENED" before _____ (The bidder is to put the date & time of bid opening) are to be written on this envelope. If the envelope is not sealed and marked properly as above, the purchaser will not assume any responsibility for its misplacement, premature opening, late opening etc.
- 21.6 Bidding Document seeks quotation following "Two Bid System", in two parts. First part will be known as 'Techno-Commercial Bid', and the second part 'Price Bid' as specified in clause 11 of GIB.

D. SUBMISSION OF BIDS**22. Submission of Bids:**

- 22.1 Unless otherwise specified, the bidders are to drop the Bids in the tender box located at **HLL Infra Tech Services Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh** or the same shall be submitted by the bidder by hand to concerned Project Officer dealing hand or his nominee. The necessary entry will be made in the Bid Receipt Register.
- 22.2 The bidders must ensure that they submit the on-line bids within the scheduled closing date & time. They shall also ensure to submit the original Tender Processing Fee and Bid Security within its scheduled date & time. It is the responsibility of the bidder to ensure that their Bids whether sent by post or by courier or by person, are dropped in the Tender Box by the specified clearing date and time. In the event of the specified date for submission of bid falls on / is subsequently declared a holiday or closed day for the purchaser, the bids will be received up to the appointed time on the next working day.
- 22.3 Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

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- 22.4 The bidder has to digitally sign and upload the required bid documents one by one as indicated in the Bidding document.
- 22.5 Bidder has to select the payment option as “offline” to pay the Bid Security/ EMD as applicable and enter details of the instrument.
- 22.6 Bidder should prepare the Bid Security/EMD as per the instructions specified in the Tender Enquiry Document. The original should be dropped in the Tender Box latest by the last date of bid submission or as specified in the Bidding Document. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected.
- 22.8 The server time (which is displayed on the dashboard of the e-tendering portal) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
- 22.9 Upon the successful and timely submission of bids (i.e. after Clicking “Freeze Bid Submission” in the portal), the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.
- 22.10 The bid summary has to be printed and kept as an acknowledgement of the submission of the bid. This acknowledgement may be used as an entry pass for any bid opening meetings.

23. Late Bid:

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

24. Alteration and Withdrawal of Bid

- 24.1 The bidder, after submitting its bid, is permitted to alter/modify its bid, within the deadline for submission of bids. Alterations/modifications to bids received after the prescribed deadline will not be considered.
- 24.2 No bid should be withdrawn after the deadline for submission of bid and before expiry of the bid validity period. If a bidder withdraws the bid during this period, it will result in forfeiture of the Bid Security furnished by the bidder in its bid.

E. BID OPENING**25. Opening of Bids:**

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

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

- 25.2 Authorized representatives of the bidder, who have submitted bids on time may attend the bid opening provided they bring with them letter of authority from their bidder. The bid opening official(s) will prepare a list of the representatives attending the bid opening. The list will contain the representatives' names & signatures and corresponding bidder's names and addresses.
- 25.3 Two Bid System as mentioned in Para 21.6 above will be as follows. The "Techno - Commercial Bids" are to be opened in the first instance, at the prescribed time and date as indicated in NIB. These Bids shall be scrutinized and evaluated by the competent committee/authority with reference to parameters prescribed in the Bidding Document. During the Techno-Commercial Bid opening, the bid opening official(s) will read the salient features of the bids like brief description of the goods offered, Bid Security and any other special features of the bids, as deemed fit by the bid opening official(s). Thereafter, in the second stage, the Price Bids 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 Bid. The prices, special discount if any of the goods offered etc., as deemed fit by bid opening official(s) will be read out.

F. SCRUTINY AND EVALUATION OF BIDS

26. Basic Principle

- 26.1 Bids will be evaluated on the basis of the terms & conditions already incorporated in the Bidding Document, based on which bids have been received and the terms, conditions etc. mentioned by the bidders in their bids. No new condition will be brought in while scrutinizing and evaluating the bids.

27. Scrutiny of Bids

- 27.1 The Purchaser will examine the Bids to determine whether they are complete, whether any computational errors have been made, whether required Bid Securities have been furnished, whether the documents have been properly signed stamped and whether the Bids are generally in order.
- 27.2 The Purchaser's determination of a Bid's responsiveness is to be based on the contents of the Bid itself without recourse to extrinsic evidence.
- 27.3 The Bids will be scrutinized to determine whether they are complete and meet the essential and important requirements, conditions etc. as prescribed in the Bidding Documents. The bids, which do not meet the basic requirements, are liable to be treated as non-responsive and will be rejected.
- 27.4 The following are some of the important aspects, for which a bid shall be declared non-responsive during the evaluation and will be ignored;
- (i) Bid form as per Section IX not enclosed.
 - (ii) Bid is unsigned.
 - (iii) Bid validity is shorter than the required period.
 - (iv) Required Bid Security (Amount, validity etc.)/ Exemption documents have not been provided.
 - (v) Bidder has quoted for goods manufactured by other manufacturer(s) without the desired Manufacturer's Authorization Form as per Section XIII.
 - (vi) Bidder 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.
- (vii) Bidder has not agreed to other essential condition(s) specially incorporated in the bidding document like terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism, and applicable law.
 - (viii) Poor/unsatisfactory past performance.
 - (ix) Bidders who stand de-registered/banned/blacklisted by any Central Govt. Ministries/Departments/Hospitals/Institutes.
 - (x) Bidder is not eligible as per Clauses 5, 6 & 17 of GIB.
 - (xi) Bidder has not quoted for the entire quantity as specified in the List of Requirements in the quoted schedule.
 - (xii) Bidder has not agreed for the delivery terms and delivery schedule.
 - (xiii) The Integrity pact (At Appendix-A) on non-judicial stamp paper shall be a part and parcel of this document and has to be signed by bidder(s) at the pre-tendering stage itself, as a pre-bid obligation and should be submitted along with the Techno-Commercial Bids. All bidders are bound to comply with the integrity pact clauses.

28. Minor Informality/Irregularity/Non-Conformity

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

29 Discrepancies in Prices

- 29.1 If, in the price structure quoted by a bidder, 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 bidder 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 judgment of the purchaser, there is any such arithmetical discrepancy in a bid, the same will be suitably conveyed to the bidder by registered/speed post/email. If the bidder does not agree to the observation of the purchaser, the bid is liable to be ignored.

30. Qualification Criteria

- 30.1 Bids of the bidder, who do not meet the required Qualification Criteria prescribed in Section VIII, will be treated as non-responsive and will not be considered further.

31. Conversion of Bid currencies to Indian Rupees

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

32. Schedule-wise Evaluation

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

33. Comparison of Bids

- 33.1. Unless mentioned otherwise in Section – III – Special Instructions to bidder and Section – VI – List of Requirements, the comparison of the responsive Bids shall be carried out on Free Delivery at consignee site basis. The quoted Turnkey Work prices and CAMC prices will also be added for comparison/ranking purpose for evaluation. "Net Present Value (NPV) of the Comprehensive Annual Maintenance Contract Charges (CAMC) quoted for 5 years after the warranty period shall be added to the bid price for evaluation and will be calculated after discounting the quoted price by a discounting factor of 10% per annum." However the payment of CAMC shall be made to the successful bidder at approved rates.

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

- 34.1 Further to GIB Clause 33 above, the purchaser's evaluation of a bid will include and take into account the following:
- i) In the case of goods manufactured in India or goods of foreign origin already located in India, GST which will be contractually payable (to the bidder), on the goods if a contract is awarded on the bidder; and
 - ii) in the case of goods of foreign origin offered from abroad, customs duty and GST which will be contractually payable (to the bidder) on the goods if the contract is awarded on the bidder.
- 34.2 The purchaser's evaluation of bid will also take into account the additional factors, if any, incorporated in SIB in the manner and to the extent indicated therein.
- 34.3 The Purchaser reserves the right to give the price preference to small-scale sectors etc. and purchase preference to central public sector undertakings as per the instruction in vogue while evaluating, comparing and ranking the responsive Bids.

35. Bidder's capability to perform the contract

- 35.1 The purchaser, through the above process of bid scrutiny and bid evaluation will determine to its satisfaction whether the bidder, whose bid has been determined as

the lowest evaluated responsive bid is eligible, qualified and capable in all respects to perform the contract satisfactorily. If, there is more than one schedule in the List of Requirements, then, such determination will be made separately for each schedule.

- 35.2 The above-mentioned determination will, inter alia, take into account the bidder satisfying all the requirements of the purchaser as incorporated in the Bidding Document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the bidder in its bid as well as such other allied information as deemed appropriate by the purchaser.

36. Contacting the Purchaser

- 36.1 From the time of submission of bid to the time of awarding the contract, if a bidder needs to contact the purchaser for any reason relating to NIB/Bidding Document and / or its bid, it should do so only in writing.
- 36.2 In case a bidder attempts to influence the purchaser in the purchaser's decision on scrutiny, comparison & evaluation of bids and awarding the contract, the bid of the bidder shall be liable for rejection in addition to appropriate administrative actions being taken against that bidder, as deemed fit by the purchaser.

G. AWARD OF CONTRACT

37. Purchaser's Right to accept any bid and to reject any or all bids.

- 37.1 The purchaser reserves the right to accept in part or in full any bid or reject any or more bid(s) without assigning any reason or to cancel the bidding process and reject all bids at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder(s).

38. Award Criteria

- 38.1 Subject to GIB clause 37 above, the contract will be awarded to the lowest evaluated responsive bidder decided by the purchaser in terms of GIB Clause 35.

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

- 39.1 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 bidder.
- 39.2 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.

40. Notification of Award

- 40.1 Before expiry of the bid validity period, the purchaser will notify the successful bidder(s) in writing, by registered / speed post or by fax/email (to be confirmed by registered / speed post) that its bid for Goods & Services, which have been selected

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

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

41. Issue of Contract

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

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

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

42. Non-receipt of Performance Security and Contract by the Purchaser

42.1 Failure of the successful bidder in providing Performance Security and/or returning contract copy duly signed in terms of GIB clauses 40 and 41 above shall make the bidder liable for forfeiture of its Bid Security and, also, for further actions by the Purchaser it as per the clause 24-Termination of default of GCC under Section IV.

43. Return of Bid Security

43.1 The Bid Security of the successful bidder and the unsuccessful bidder will be returned to them without any interest, whatsoever, in terms of Clause 19 of GIB.

44. Publication of Bid Result

44.1 The name and address of the successful bidder (s) receiving the contract(s) will be mentioned in the Website of AIIMS, CPPP and HITES.

H. CORRUPT OR FRADULENT PRACTICES

45. Corrupt or Fraudulent Practices

45.1 It is required by all concerned namely the Bidder /Suppliers/Purchaser/Consignee/End User 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 bidders (prior to or after Bid submission) designed to establish Bid 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 Bidder 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 BIDDERS
(SIB)**

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

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

Sl. No.	GIB Clause No.	Topic	SIB Provision	Ref. Page No.
A	1 to 7	Preamble	No Change	
B	8 to 10	Bidding Document	No Change	
C	11 to 21	Preparation of Bids	Change in GIB Clause no. 19, 21.1	
	19		Additional para 19.9 as under	15
D	22 to 24	Submission of Bids	No Change	
E	25	Bid Opening	No Change	
F	26 to 36	Scrutiny and Evaluation of Bids	Change in GIB Clause no. 33	
	33	Comparison of Bids	Additional para 33.2 as under	21
G	37 to 44	Award of Contract	No Change	
H	45	Corrupt or Fraudulent Practices	No Change	

19. Bid Security (BS)

19.9 HITES Bank details for necessary issuance of 'Structured Financial Messaging System (SFMS)' in case the Bid Security (i.e. EMD) is submitted in the form of Bank Guarantee:

Name of the Beneficiary	Bank Details	IFSC Code
HLL INFRA TECH SERVICES LTD.	HDFC BANK LTD, NOIDA, UTTAR PRADESH	HDFC0000088

33. Comparison of Bids

33.2 Unit Prices for all optional items/accessories/services (if any) asked in the tender specifications must be quoted separately by all the bidders in their price bid. Such unit prices after multiplying by the required quantity shall be added and taken into consideration for comparison and ranking of bids.

Added Para (Ref. GIB Clause 33 & 34):

The comparison of bids will be based on GIB Clause 33, 34 and if any, as specified in the Technical specification(s). However, at the time of award of contract, the value of award (bid value/contract value) shall be limited to the upfront charges payable by the exchequer for Supply, Installation, Testing & Commissioning value only on DDP basis which is inclusive of warranty (for number of years specified at section VI; List of Requirement, Part I) and any other item(s)/services detailed for upfront purchase in the technical specifications. The cost of any other parameters like CAMC price beyond the warranty period, cost of any Consumables, any other recurring expenditure, etc. which have been considered for ranking of bids or for freezing of rates shall not be part of tender/award/bid/contract value.

SECTION - IV**GENERAL CONDITIONS OF CONTRACT (GCC)
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1. Application

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

2. Use of contract documents and information

- 2.1 The supplier shall not, without the purchaser's prior written consent, disclose the contract or any provision thereof including any specification, drawing, sample or any information furnished by or on behalf of the purchaser in connection therewith, to any person other than the person(s) employed by the supplier in the performance of the contract emanating from this Bidding 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 Thirty (30) days from date of the issue of notification of award by the Purchaser, the supplier, shall furnish Performance Security to the Purchaser for an amount equal to ten percent (10%) of the total value of the contract, valid up to

ninety (90) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations.

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

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 XIV of this document in favour of the Purchaser. The validity of the Fixed Deposit Receipt or Bank Guarantee will be for a period up to ninety (90) days beyond Warranty Period.

- 5.3 In the event of any failure/default of the supplier with or without any quantifiable loss to the government including furnishing of consignee wise Bank Guarantee for CAMC security as per Performa in Section XIV, the amount of the performance security is liable to be forfeited. The needful will be done to cover any failure/default of the supplier with or without any quantifiable loss to the Government.
- 5.4 In the event of any amendment issued to the contract, the supplier shall, within fifteen (15) days of issue of the amendment, furnish the corresponding amendment to the Performance Security (as necessary), rendering the same valid in all respects in terms of the contract, as amended.
- 5.5 The supplier shall enter into Comprehensive Annual Maintenance Contract as per the 'Contract Form - B' in Section XV with respective consignees, 3 (three) months prior to the completion of Warranty Period. The CAMC will commence from the date of expiry of the Warranty Period.
- 5.6 Subject to GCC sub – clause 5.3 above, the Purchaser will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations & after receipt of Consignee wise bank guarantee for CAMC security in favour of concerned Director AIIMS/Chief of Centres/MS of Hospital/Head of the Department/Dean as per the format in Section XIV.

6. Technical Specifications and Standards

- 6.1 The Goods & Services to be provided by the supplier under this contract shall conform 'Technical Specification' under Sections VII 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 under Section VII 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 under Section VII and in SCC under Section V, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

- a. Contract number and date
- b. Brief description of goods including quantity
- c. Packing list reference number
- d. Country of origin of goods
- e. Consignee's name and full address and
- f. Supplier's name and address

8. Inspection, Testing and Quality Control

- 8.1 The purchaser and/or its nominated representative(s) will, without any extra cost to the purchaser, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The purchaser shall inform the supplier in advance, in writing, the purchaser's programme for such inspection and, also the identity of the officials to be deputed for this purpose. "The cost towards the transportation, boarding and lodging will be borne by the purchaser and/or its nominated representative(s) for the first visit. In case the goods are rejected in the first instance and the supplier requests for re-inspection, and if same is accepted by Purchaser/Consignee, all subsequent inspections shall be at the cost of the supplier. The expense will be to and fro Economy Airfare, Local Conveyance, Boarding and Lodging of the inspection team for the inspection period."
- 8.2 The Technical Specification incorporated in the contract shall specify what inspections and tests are to be carried out and, also, where and how they are to be conducted. If such inspections and tests are conducted in the premises of the supplier or its subcontractor(s), all reasonable facilities and assistance, including access to relevant drawings, design details and production data, shall be furnished by the supplier to the purchaser's inspector at no charge to the purchaser.
- 8.3 If during such inspections and tests the contracted goods fail to conform to the required specifications and standards, the purchaser's inspector may reject them and the supplier shall either replace the rejected goods or make all alterations necessary to meet the specifications and standards, as required, free of cost to the purchaser and re-submit the same to the purchaser's inspector for conducting the inspections and tests again.
- 8.4 In case the contract stipulates pre-dispatch inspection of the ordered goods at supplier's premises, the supplier shall put up the goods for such inspection to the purchaser's inspector well ahead of the contractual delivery period, so that the purchaser's inspector is able to complete the inspection within the contractual delivery period.
- 8.5 If the supplier tenders the goods to the purchaser's inspector for inspection at the last moment without providing reasonable time to the inspector for completing the inspection within the contractual delivery period, the inspector may carry out the inspection and complete the formality beyond the contractual delivery period at the

risk and expense of the supplier. The fact that the goods have been inspected after the contractual delivery period will not have the effect of keeping the contract alive and this will be without any prejudice to the legal rights and remedies available to the purchaser under the terms & conditions of the contract.

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

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

- 8.7 Goods accepted by the purchaser/consignee and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's/consignee's right to reject the same later, if found deficient in terms of the warranty clause of the contract, as incorporated under GCC Clause 15.
- 8.8 Principal/ Foreign supplier shall also have the equipment inspected by recognized/ reputed agency like SGS, Lloyd, Bureau Veritas, TUV etc. prior to dispatch at the supplier's cost and furnish necessary certificate from the said agency in support of their claim.

9. Terms of Delivery

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

10. Transportation of Goods

- 10.1 Instructions for transportation of imported goods offered from abroad:

The supplier shall not arrange part-shipments without the express/prior written consent of the purchaser. The supplier is required under the contract to deliver the goods under CIP (Named port of destination) terms.

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 Free Delivery at Consignee's 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 warehouse to warehouse (consignee site) on all risk basis. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.

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

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/End User, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actual 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/End User 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/End User 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/End User, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the Purchaser/End User.

12.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumables and spares for the goods so that the same are used during warranty and CAMC 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, Demonstration, Trial run etc. of the goods.
- ii) Turnkey work (if any).
- iii) Training of Consignee's/End Users 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 dispatch documents well in time to enable the purchaser 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 dispatch, the supplier shall notify the concerned Store Officer in AIIMS Clearing Agent and others concerned the complete details of dispatch and also supply following documents by air mail/ courier etc. with intimation by e-mail:

- a) Commercial Supplier's Invoice giving full details of the goods including quantity, value, etc.;
- b) Packing list;
- c) Certificate of country of origin;
- d) Bill of Lading/Airway Bill;
- e) Insurance Certificate; (if applicable)
- f) Manufacturer's guarantee and Inspection certificate; (if applicable)
- g) Inspection certificate issued by the Purchaser's Inspector; (if applicable)
- h) Any other document(s) as and if required in terms of the contract.

15. Warranty and CAMC

15.1 The supplier warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials (except when the design adopted and/or the material used are as per the Purchaser's/Consignee's specifications) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.

15.2 The warranty shall include all spares, labour and preventive maintenance from the date of completion of the satisfactory installation and acceptance till warranty period.

15.3 The Comprehensive Annual Maintenance Contract shall include all spares, labour and preventive maintenance from the date of completion of the satisfactory installation and acceptance till warranty period.

15.4 Warranty as well as Comprehensive Annual Maintenance Contract will be inclusive of all accessories and turnkey work and it will also cover the following, wherever applicable:-

- All kinds of Motors.
- Plastic & Glass Parts against any manufacturing defects.
- All kinds of sensors.
- All kinds of coils, probes and transducers.
- Printers and imagers including laser and thermal printers with all parts.
- UPS including the replacement of batteries.
- Air-conditioners

15.5 In case of any claim arising out of this warranty and CAMC period 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 unless revised in SCC in Section V of Bidding Document.

- 15.6 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 conditions laid down in the Bidding Document.
- 15.7 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 up to the completion of the original warranty period of the main equipment.
- 15.8 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser may proceed to take such remedial action(s) as deemed fit by the purchaser, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser may have against the supplier.
- 15.9 During Warranty and CAMC period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the installation for preventive maintenance of the goods.
- 15.10 The Purchaser/Consignee reserve the rights to enter into Comprehensive Annual Maintenance Contract between the Purchaser and the Supplier for the period as mentioned in Section VII, Technical Specifications after the completion of warranty period.
- 15.11 The supplier along with its Manufacturer, Indian Agent and the CAMC provider shall ensure continued supply of the spare parts for the machines and equipment supplied by them to the purchaser for 10 years from the date of installation and handing over.
- 15.12 The Supplier along with its Manufacturer Indian Agent and the CMC Provider shall always accord most favoured client status to the Purchaser vis-à-vis its other Clients/Purchasers of its equipment/machines/goods etc. and shall always give the most competitive price for its machines/equipment supplied to the Purchaser/Consignee.

16. Assignment

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

17. Sub Contracts

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

18. Modification of Contract

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

- a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser,
- b) Mode of packing,
- c) Incidental services to be provided by the supplier
- d) Mode of dispatch,
- 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 the supplier shall convey its views to the Purchaser within twenty-one days from the date of the supplier's receipt of the Purchaser'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 bid and incorporated in the contract except for any price adjustment authorized in the SCC.

20. Taxes and Duties

20.1 Supplier shall be entirely responsible for GST 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 through electronic transfer in NEFT/RTGS subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract in the following manner:

A) Payment for Indigenous Goods (M&E) Or Foreign Origin Located Within India.

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

- a) **On delivery:** 75% payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents:
 - (i) Original copies of supplier's invoice showing contract number, goods description, quantity, packing list, unit price and total amount;

- (ii) Consignee Receipt Certificate as per Section XVI of bidding document in original issued by the authorized representative of the consignee;
- b) **On Acceptance:** Balance 25% payment would be made against “Installation and Acceptance Certificate” of goods to be issued by the End User subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise. “Installation and Acceptance Certificate” need to be issued by the concerned End User after installation, commissioning, testing and successful trial run (if applicable).
- B) Payment for Imported Goods (M&E):** Payment for foreign currency portion shall be made in the currency as specified in the contract in the following manner:
- a) **On Shipment:** 75% of the net FCA/CIP price (i.e. FCA/CIP price less Indian Agency commission) of the goods despatch by Sea/Air shall be paid through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the supplier in a bank in his country and upon submission of documents specified hereunder:
- i) Commercial Supplier’s Invoice giving full details of the goods including quantity, value, etc.;
 - ii) Packing list;
 - iii) Certificate of country of origin;
 - iv) Negotiable clean Bill of Lading/Airway Bill;
 - v) Insurance Certificate; (if applicable)
 - vi) Manufacturer’s guarantee and Inspection certificate; (if applicable)
 - vii) Inspection certificate issued by the Purchaser’s Inspector; (if applicable)
 - viii) Any other document(s) as and if required in terms of the contract.
- b) **On Acceptance:** Balance payment of 25% of net FCA/CIP price of goods would be made against “Installation and Acceptance Certificate” to be issued by the End User through irrevocable, non-transferable Letter of Credit (LC) opened in favour of the Foreign Principal in a bank in his country, subject to recoveries, if any. “Installation and Acceptance Certificate” need to be issued by the concerned End User after installation, commissioning, testing and successful trail run (if applicable).
- c) Payment of Consumable Imported Goods/Reagents/Kits would be made 100% against “Installation and Acceptance Certificate” to be issued by the End User through Wire Transfer.
- d) **Payment of Incidental Costs:** Incidental costs till consignee site towards Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training),if applicable will be paid in Indian Rupees to the Indian Agent on submission of “Installation and Acceptance Certificate” by the End User.
- e) **Payment of Indian Agency Commission:** Indian Agency Commission (IAC) will be paid to the Authorised manufacturer’s agent in Indian rupees indicated in the contract (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject to further escalation/exchange variation. The agency commission payment shall be made on submission of “Installation and Acceptance Certificate” by the End User.
- C) Payment of Civil/Electrical Works at site:** The payment related to Civil/Electrical Works at site will be made as indicated in the contract (as per prevailing rate of exchange ruling on the date of Contract) and shall not be subject

to further escalation/exchange variation. The payment for Civil/Electrical works shall be made on submission of "Installation and Acceptance Certificate" by the End User.

D) Payment for Comprehensive Annual Maintenance Contract Charges: The consignee will enter into CAMC with the supplier at the rates as stipulated in the contract. The payment of CAMC will be made on six monthly basis after satisfactory completion of said period, duly certified by the End User on receipt of bank guarantee for an amount equivalent to 2.5% of the cost of the equipment as per contract in the prescribed format given in Section XV of the bidding document valid till 3 months after expiry of entire CAMC period. The Performance Bank Guarantee for CAMC will be applicable in case of contract value is more than Rs. 10 lakh.

21.2 Terms of payment for imported goods

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

21.2.2 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.

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

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

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

21.2.6 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.

21.2.7 While claiming reimbursement of duties, taxes etc. (like GST, sales tax, excise duty, custom duty) from the Purchaser, 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, the supplier shall refund to the Purchaser forthwith.

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 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 no 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 in writing about the same and its likely duration and make a request to the Purchaser for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

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

- (a) The Purchaser 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 GST 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 shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty and GST 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 for extension of delivery period and obtain the same before dispatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and/or any other expense related to such supply shall lie against the purchaser.

22.6 Passing of Property

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

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

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

23. Liquidated Damages

- 23.1 Subject to GCC clause 26, if the supplier fails to deliver 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 shall, without prejudice to other rights and remedies available to the Purchaser 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 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 without prejudice to any other contractual rights and remedies available to it the Purchaser, 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 pursuant to GCC sub-clauses 22.3 and 22.4.
- 24.2 The Performance Security in such cases will be forfeited.
- 24.3 Unless otherwise instructed by the Purchaser, 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.

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 in writing of such conditions and the cause thereof within twenty one days of

occurrence of such event. Unless otherwise directed by the Purchaser 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 is unable to fulfil its contractual commitment and responsibility, the Purchaser 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 reserves the right to terminate the contract, in whole or in part for its Purchaser'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. The notice shall also indicate inter alia, 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 following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser 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 GIB 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 Facsimile/email 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.
- 30.3 In the case of a dispute or difference arising between the Purchaser and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration to be appointed by the Director, AIIMS. 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 lakh (Rs. 1,00,000/-).
- 30.4 **Venue of Arbitration:** The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi, India.
- 30.5 **Jurisdiction of the court** will be from the place where the Bidding Document has been issued, i.e., New Delhi, India.

31. Applicable Law

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

32 Withholding and Lien in respect of sums claimed

- 32.1 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.
- 32.2 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. Fall Clause

Fall clause is a price safety mechanism. The fall clause provides that if the contract holder reduces its price or sells or even offers to sell the contracted goods of identical specification and terms & conditions to that of the contract, at a price lower than the contract price, to any person or organization during the currency of the Contract, the Contract price will be automatically reduced with effect from that date for all the subsequent supplies under the Contract and the contract amended accordingly.

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.

Any specific clause, mentioned in the technical specification shall prevail and will supersede the similar clause mentioned anywhere in the Bidding Document.

The applicable period of warranty & CAMC shall be as mentioned in the List of Requirement as per section VI of this Bidding Document.

SECTION- VI**LIST OF REQUIREMENTS****Part I:**

Sl. no.	Tender ID	Short Description of goods	Quantity	Warranty Period	CAMC period after warranty
1	2019_HLL_37262_1	Portable Blood Donor Couch	4	05 Years	05 Years
2	2019_HLL_37262_2	Blood Collection Monitor	8	05 Years	05 Years
3	2019_HLL_37262_3	Blood Donor Couch	15	05 Years	05 Years
4	2019_HLL_37262_4	Blood Bank Refrigerator - 400 L	3	05 Years	05 Years
5	2019_HLL_37262_5	Platelet Agitator cum Incubator (Upright Model, 150-200 random donor platelet units)	1	05 Years	05 Years
6	2019_HLL_37262_6	Platelet Agitator cum Incubator (Upright Model, 48 random donor platelet units)	2	05 Years	05 Years
7	2019_HLL_37262_7	Deep Freezer (-40°C) 400 L	3	05 Years	05 Years
8	2019_HLL_37262_8	Deep Freezer (-80°C) 400 L	2	05 Years	05 Years
9	2019_HLL_37262_9	Dielectric Tube sealer (Bench top)	2	05 Years	05 Years
10	2019_HLL_37262_10	Sterile Connecting Device	2	05 Years	05 Years
11	2019_HLL_37262_11	Apheresis Machine	7	05 Years	05 Years
12	2019_HLL_37262_12	Dielectric Tube Sealer - Handheld	2	05 Years	05 Years
13	2019_HLL_37262_13	Haemostatic Analyzer	1	05 Years	05 Years
14	2019_HLL_37262_14	Refrigerated Blood Bag Centrifuge	2	05 Years	05 Years
15	2019_HLL_37262_15	Bio-Safety Cabinet	3	05 Years	05 Years
16	2019_HLL_37262_16	Table Top Centrifuge	5	05 Years	05 Years
17	2019_HLL_37262_17	Cooling Table	3	05 Years	05 Years
18	2019_HLL_37262_18	Automated 5-part blood cell counter	1	05 Years	05 Years
19	2019_HLL_37262_19	Coagulation Analyzer	1	05 Years	05 Years
20	2019_HLL_37262_20	Wireless Data Loggers	18	05 Years	05 Years
21	2019_HLL_37262_21	Lab Autoclave	1	05 Years	05 Years

Sl. no.	Tender ID	Short Description of goods	Quantity	Warranty Period	CAMC period after warranty
22	2019_HLL_37262_22	Reagent Refrigerator	3	05 Years	05 Years
23	2019_HLL_37262_23	Aggregometer	1	05 Years	05 Years
24	2019_HLL_37262_24	Bacterial Detection System	1	05 Years	05 Years
25	2019_HLL_37262_25	Blast Freezer	1	05 Years	05 Years
26	2019_HLL_37262_26	Walk-in modular cold room	1	05 Years	05 Years
27	2019_HLL_37262_27	Binocular Microscope	1	05 Years	05 Years
28	2019_HLL_37262_28	Micro pipette set (Manual adjustable)	4	05 Years	05 Years
29	2019_HLL_37262_29	Blood Bank Software	1	05 Years	05 Years
30	2019_HLL_37262_30	Automatic Nucleic Acid Testing System	1	05 Years	05 Years
31	2019_HLL_37262_31	Fully Automated Random Access Chemiluminescence	2	05 Years	05 Years
32	2019_HLL_37262_32	Fully Automated Random Access Immuno-Haematology (IH) Platform	2	05 Years	05 Years
33	2019_HLL_37262_33	Biological X-Ray based Blood Irradiator	1	05 Years	05 Years
34	2019_HLL_37262_34	Mobile Blood Donation Van	1	03 Years for Mobile Van & 05 Years for Equipment & Fabrication	07 Years for Mobile Van & 05 Years for Equipment & Fabrication

Part II: Required Delivery Schedule:

For Indigenous and/or Imported goods:

- i) **For tenders at Sl. no. 01 to 33 (i.e. Tender ID: 2019_HLL_37262_1 to 2019_HLL_37262_33):**

Project build-out, Supply, Installation and Commissioning to be completed within **90 days** from the date of NOA or date of opening of LC or date of approval of layout drawing (if applicable), whichever is later.

- ii) **For tenders at Sl. no. 34 (i.e. Tender ID: 2019_HLL_37262_34):**

Supply, Installation and Commissioning to be completed within **180 days** from the date of NOA or date of opening of LC or date of approval of layout drawing (if applicable), whichever is later.

[In case of LC opening, necessary documents like valid Performance Security and Proforma Invoice are to be submitted within 30 days from the date of release of NOA. In case layout drawing (if approval is applicable), it should be submitted by the supplier within 21 days from the date of release of NOA]

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

Part III: Scope of Incidental Services:

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

Part IV: Turnkey Work (if any) as per details in Technical Specification.

Part V: Warranty period as per details mentioned in technical specification and as specified in Part I above. Warranty period will start from the date of installation, commissioning and acceptance.

Comprehensive Annual Maintenance Contract (CAMC) as per details in Technical Specification as specified in part I above. Comprehensive Annual Maintenance Contract (CAMC) will start from the date of successful completion of warranty period.

Part VI: Required Terms of Delivery and Destination.

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

Free Delivery at Consignee's Site(s)

b) For Imported goods directly from abroad:

The foreign bidders are required to quote their rates on CIP (Named Port of Destination Basis) giving breakup of the price as per the Proforma prescribed in the Price Schedule. Purchaser will place the order on CIP (Named Port of Destination basis).

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) The Consignee details are as under but the supplier is required to deliver the goods at the designated site in the floor and building of concerned Centers/Hospital/ Departments:

Consignee	Contact Address	Air Port	Sea Port
The Director, National Cancer Institute – AIIMS (Jhajjar Campus)	Badsha Village Jhajjar, Haryana	New Delhi	ICD Tuglakabad (for containerised shipments) Or ICD Patparganj

Note: The consignee will ensure timely issue of e-LORA, PNDD, CDEC etc., wherever applicable to the supplier.

SECTION - VII**TECHNICAL SPECIFICATION AND GENERAL POINTS****A. TECHNICAL SPECIFICATION:****Item no. 1 (Tender ID: 2019 HLL 37262 1)****Portable Blood Donor Couch**

Sl. No	Technical Specification
1	Mobile Foldable Blood Donor Couch designed to fold into a compact
2	Not more than 24"W X 72" LX8"H
3	Weight should not be more than 20 Kg
4	Should be easily to clean and maintain
5	Should be in durable tubular aluminum frame
6	Should be able to bear the larger donors weight up to 150 Kg
7	Should have padded armrest for extra comfort to the donor, adjustable for proper arm placement.
8	Couch should easily be reclined into a secured shock position
9	Pockets to be provided at the back of each couch for keeping accessories
10	Should be provided with washable linen covers (1 pair) with each couch
11	Should be sturdy and should be able to withstand transportation rigors
12	Original literature of equipment should be submitted.
13	Equipment should have USFDA or CE certification

Item no. 2 (Tender ID: 2019 HLL 37262 2)**Blood Collection Monitor**

SL. No	Technical Specification
1	Should have facility to preset total volume of blood to be collected and accordingly monitor and display amount collected. It should have facility to clamp to stop the collection of blood as soon as preset volume is collected and not allow over collection. Should have the facility for LIS integration (preferably wireless).
2	Battery backup should be > 8 hours with continuous work load.
3	Battery charger should be inbuilt.
4	Should be portable (Suitable for outdoor blood donation camps).
5	Should have standby / park mode.
6	Should be able to operate at 10 – 50° C.
7	There should be digital display of preset volume, rate of collection and total time taken at the end of collection.
8	Oscillation 12 - 16 rpm
9	Should mix the blood with anti – coagulant solution during collection and ensure that only correct amount of blood is collected.
10	There Should be Visual display and audible alarm:
(i)	when flow rate goes below 20 ml/min or high flow rate goes above 180 ml/min
(ii)	at the end of collection
(iii)	when battery low
(iv)	during pause function
(v)	any abnormal condition

11	Every Bio-mixer should be provided with manufacturer provided carry box with handle.
12	Firm should supply the relevant calibration certificate for the equipment from NABL accredited Lab.
13	Original literature of equipment should be submitted.
14	It should have USFDA or European CE certification
15	Manufacturer should be ISO 9001 certified and should have ISO 13485 certification for quality standards. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.
16	The biomixer should be able to integrate with LIS for data management.

Item no. 3 (Tender ID: 2019 HLL 37262 3)

Blood Donor Couch

Sl. No	Technical Specification
1	Should be based on hemodynamic principles to allow blood volumes to redistribute.
2	Should have armrest suitable for phlebotomy and better blood flow.
3	Should have automatic/manual adjustment of arm-rest to adjust seat width and support for comfortable phlebotomy. Two adjustable arm-rest of length more than 50 cm and width of 15 cm to set the arm position to the donor's comfort.
4	Material should be waterproof with rounded borders and easy to clean.
5	The length of the couch should be 200 cm to 215 cm to accommodate all type of donors.
6	Specially designed for comfort of donor and phlebotomist.
7	Should be able to accommodate Donor weight of up to 150 Kg.
8	Should have electronic remote adjustment for height and comfortable sitting position.
9	Should have provision to shift the donor's position from "head high – foot low" to "foot high-head low" or any position in between.
10	Should have only one button to reach shock position within 10-12 sec. of actuation: Head low in case donor reaction.
11	Should have 3 or 4 motors with separate control through remote for positioning of couch.
12	Electric motor should have limit switch and safety circuit.
13	Couch should be movable with wheels with locking facility.
14	Seat height should be adjustable to enable to lower it as low as 50 – 75 cm from the floor level for donor to sit easily.
15	Should have provision to hang I.V. stand.
16	Good quality original company supplied standard trolley with lockable wheels should be provided with each couch for keeping standard Bio mixer and other consumables (like swabs, etc).
17	Good quality couch covers (two sets each for one couch) should be provided along with the couches including cover for handles.
18	Original literature of equipment should be submitted.
19	User's list should be attached along with technical bid with satisfactory report for the last three years from three user licensed Blood Banks associated with Govt. Medical Institutes and/or NABH/JCI accredited hospitals with contact details.

Item no. 4 (Tender ID: 2019_HLL_37262_4)**Blood Bank Refrigerator - 400 L**

Sl. No	Technical Specification
1	Storage Capacity: Should be at least 400 Liters capacity and should be able to accommodate 350-400 PRBC units.
2	Set temperature 4°C with temperature range 2° C to 6° C and adjustable with setting accuracy of $\pm 0.1^{\circ}$ C.
3	Refrigeration: Non-CFC cooled refrigeration.
4	Should have good insulation to maintain required temperature.
5	Should have double walled glass door.
6	Microprocessor based temperature controller with integrated audiovisual temperature and power alarm function with digital monitoring display.
7	Safety features: Audio alarm for all the following parameters should be there - temperature fluctuation & power failure, set point alarm, low alarm point, Door opening audio and visual display alarm.
8	Safety thermostat to avoid negative temperatures.
9	Should have battery backup for temperature and power alarm.
10	Should have 1000 nos. of seven days graphic temperature recorder along with data logging device. The cost of the temperature recorder chart paper will be included in the total cost of the equipment financial comparison.
11	Internal temperature hold over time in case of power failure should be at least 1.5 hours.
12	Should have fluorescent light inside the Blood Bank Refrigerator with On/Off switch.
13	Should have castor wheels with locking facility.
14	While in operation, the noise level must not exceed 90 dB.
15	Original literature of equipment should be submitted.
16	Firm should supply the relevant calibration certificate for the equipment from NABL accredited Lab.
17	Firm will have to supply the stabilizer if required along with the equipment without any extra cost.
18	Should be USFDA or European CE certified.
19	Manufacturer should be ISO 9001 certified and should have ISO 13485 certification for quality standards. It shall meet IEC-60601-1-2 (or equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Item no. 5 (Tender ID: 2019_HLL_37262_5)**Platelet Agitator cum Incubator (Upright Model)
(150-200 random donor platelet units)**

Sl. No	Technical Specification
1	Flat-bed agitator fitted inside a temperature-controlled incubator operating with CFC-free refrigerant gas and CFC-free insulation material.
2	Construction:
a.	Internal: Stainless steel (min. 304 grade)
b.	External: Corrosion Resistant sheet, coated with anti-bacterial material.
c.	Designed to hold a load of random platelet bags or apheresis platelet bags or a mixture of both types.
d.	Doors: must be made of glass, must be frost free and must enable inspection of contents without opening the door.

3	3. Design of Shelves:
a.	Shelves must be made of corrosion resistant material and must have anti-bacterial coating with sufficient space between two shelves.
b.	Must allow easy loading and withdrawal of platelet bags.
c.	Shelves must be perforated to ensure good air circulation.
d.	The shelves must have a provision so that it cannot be pulled out completely from the equipment.
e.	While in operation, the noise level must not exceed 90 dB.
4	Capacity: 150-200 random donor platelet units. Bidder may propose suitable alternative number of equipment to commensurate the said workload.
5	Internal Temperature Control:
a.	Must have fan cooling provision for maintaining uniform air circulation and temperature maintenance.
b.	Must have electronic temperature control to maintain even temperature at 22 ± 2 °C in all shelves with accuracy of 0.5 °C
c.	Must have at least 1-2 temperature sensors with digital temperature (LED) display with 0.1-0.5 °C graduation.
6	Integrated audio-visual alarm systems must be there for
a.	Temperature failure,
b.	Temperature sensor failure,
c.	Agitator off,
d.	Power failure,
e.	Motion failure and
f.	Door ajar.
7	Must have Battery backup for temperature recordings which is especially needed during power failure/fluctuations. Additional Battery backup for alarm must be there so that alarm will not fail in case of power failure, and must be able to sustain the alarm.
8	Range of External Ambient Temperature and Humidity for optimal equipment performance: An ambient temperature range of up to 10 to $+45 \pm 1$ °C and Relative Humidity of 60-90%
9	Performance: Agitation at 1.5 inch (3.6–4 cm) side to side stroke, 65–75 strokes/min.
10	Firm must submit the documentation for qualifications for design, installation, operation and performance.
11	Firm must submit validation and calibration reports which must have traceability to applicable national and international standards.
12	Fully detailed operator manuals must be provided in English.
13	Electrical Requirements:
a.	Nominal input voltage: AC, 220/240 V, 50 Hz, Single phase.
b.	Must have an integrated voltage stabilizer or external servo stabilizer of appropriate ratings as per ISI specifications (Input 160-260 V and output 220-240 V and 50 Hz).
c.	Equipment meets electrical safety specifications such as that of the IEC 61010-1.
14	Must have seven day chart recorder with a graphic chart recorder with battery backup. The firm should supply charts for without any extra cost during the entire warranty period.
15	Manufacturer should be ISO 9001 certified and should have ISO 13485 certification for quality standards. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Item no. 6 (Tender ID: 2019 HLL 37262_6)**Platelet Agitator cum Incubator (Upright Model)**
(48 random donor platelet units)

Sl. No	Technical Specification
1	Flat-bed agitator fitted inside a temperature-controlled incubator operating with CFC-free refrigerant gas and CFC-free insulation material.
2	Construction:
a.	Internal: Stainless steel (min. 304 grade)
b.	External: Corrosion Resistant sheet, coated with anti-bacterial material.
c.	Designed to hold a load of random platelet bags or apheresis platelet bags or a mixture of both types.
d.	Doors: must be made of glass, must be frost free and must enable inspection of contents without opening the door.
3	Design of Shelves:
a.	Shelves must be made of corrosion resistant material and must have anti-bacterial coating with sufficient space between two shelves.
b.	Must allow easy loading and withdrawal of platelet bags.
c.	Shelves must be perforated to ensure good air circulation.
d.	The shelves must have a provision so that it cannot be pulled out completely from the equipment.
e.	The agitator must be noiseless (< 60 db)
4	Capacity: 48 random donor platelet units
5	Internal Temperature Control:
a.	Must have fan cooling provision for maintaining uniform air circulation and temperature maintenance.
b.	Must have electronic temperature control to maintain even temperature at 22 ± 2 °C in all shelves with accuracy of 0.5 °C
c.	Must have at least 1-2 temperature sensors with digital temperature (LED) display with 0.1-0.5 °C graduation.
6	Integrated audio-visual alarm systems must be there for
a.	Temperature failure,
b.	Temperature sensor failure,
c.	Agitator off,
d.	Power failure,
e.	Motion failure and
f.	Door ajar.
7	Must have Battery backup for temperature recordings which is especially needed during power failure/fluctuations. Additional Battery backup for alarm must be there so that alarm will not fail in case of power failure, and must be able to sustain the alarm.
8	Range of External Ambient Temperature and Humidity for optimal equipment performance: An ambient temperature range of up to 10 to $+45 \pm 1$ °C and Relative Humidity of 60-90%
9	Performance: Agitation at 1.5 inch (3.6–4 cm) side to side stroke, 65–75 strokes/min.
10	Firm must submit the documentation for qualifications for design, installation, operation and performance.
11	Firm must submit validation and calibration reports which must have traceability to applicable national and international standards.
12	Fully detailed operator manuals must be provided in English.
13	Electrical Requirements:
a.	Nominal input voltage: AC, 220/240V, 50Hz, Single phase. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic

	Compatibility.
b.	Must have an integrated voltage stabilizer or external servo stabilizer of appropriate ratings as per ISI specifications (Input 160-260 V and output 220-240 V and 50 Hz).
c.	Equipment meets electrical safety specifications such as that of the IEC 61010-1.
14	Must have seven day chart recorder with a graphic chart recorder with battery backup. The firm should supply charts for without any extra cost during the entire warranty period.
15	Equipment should have USFDA or European CE certification.
16	Manufacturer should be ISO 9001 certified and should have ISO 13485 certification for quality standards.

Item no. 7 (Tender ID: 2019 HLL 37262 7)

Deep Freezer (-40°C) 400 L

Sl. No	Technical Specification
1	Should be suitable for storage of FFP / plasma/cryoprecipitate in blood banks.
2	Operating temperature range should be from -20oC to -40oC at ambient temperature and adjustable with setting accuracy of ±1oC.
3	Upright model with internal capacity 400 liters or more.
4	Solid outer cabinet of painted steel to prevent corrosion. Inner cabinet of stainless steel.
5	Separate inner doors to prevent temperature loss.
6	System should have 4-6 inner shelves of stainless steel.
7	Automatic/manual closing of front door below a opening angle of 90°
8	It must have microprocessor control for operation with integrated audio/visual temperature alarm function with digital monitoring display.
9	It must have minimum four hours battery backup for temperature display.
10	System must have in-built features to identify any temperature deviation beyond set point.
11	Should be provided with data logger device.
12	System should have operating temperature & high /low limit alarm functions with set point adjustable in steps of 1oC.
13	System should have CFC free refrigerants.
14	System should have automatic voltage boost compensations for low voltage conditions.
15	System should have safety alarms with automatic, continuous charged battery back up to provide alarm functions even in case of power failure.
16	System should have appropriate insulation to maintain temperature.
17	System should have double seal lid gasket to minimize frost build up.
18	System should have minimum vibrations, and noise level should not exceed 90 db.
19	It must have automated/manual defrost or a heating device on frame to avoid condensation.
20	It must have seven days graphic temperature recorder along with data logging device.
21	Should have castor wheels with locking facility.
22	Original literature of equipment should be submitted.
23	Should provide the relevant temperature calibration certificate for the equipment from any NABL accredited Lab.
24	Should supply 400 temperature recorder chart papers and 10 ink pens (if the temperature recorder is not inkless) along with the equipment without any extra cost.

25	Should supply suitable stabilizer if required along with the equipment without any extra cost.
26	Equipment should have USFDA or European CE certification.
27	Manufacturer should be ISO 9001 certified and should have ISO 13485 certification for quality standards.
28	It shall meet IEC-60601-1-2 (or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Item no. 8 (Tender ID: 2019 HLL 37262 8)

Deep Freezer (-80°C) 400 L

Sl. No	Technical Specification
1	Should be suitable for blood / plasma storage in blood banks.
2	Operating temperature range should be from -50° C to -80° C at ambient temperature and adjustable with setting accuracy of ±1° C.
3	Vertical model with internal capacity 400 L or more.
4	Solid outer cabinet of painted steel to prevent corrosion. Inner cabinet of stainless steel.
5	Separate inner doors to prevent cold loss.
6	System should have 5-6 inner shelves of stainless steel.
7	Automatic/manual closing of front door below a opening angle of 90°.
8	It must have microprocessor control for operation with integrated audio/visual temperature alarm function with digital monitoring display.
9	It must have minimum four hours battery backup for temperature display.
10	System should have inbuilt features to identify any temperature deviation beyond alarm set point. System should have key operated switch for main power and alarm system.
11	System should have operating temperature & high/low limit alarm functions with set point adjustable in steps of 1° C.
12	System should have CFC free refrigerants.
13	System should have automatic voltage boost compensations for low voltage conditions.
14	System should have adjustable safety alarms with automatic, continuous charged battery back up to provide alarm functions even in case of power failure.
15	System should have appropriate polyurethane insulation.
16	System should have double seal lid gasket to minimize frost build up.
17	System should have minimum noise and vibration.
18	It must have automated defrost or a heating device on frame to avoid condensation.
19	It must have seven days graphic temperature recorder along with data logging device.
20	Should have castor wheels with locking facility.
21	Original literature of equipment should be submitted.
22	Firm should also provide the relevant temperature calibration certificate for the equipment from any NABL accredited Lab.
23	Should supply 400 temperature recorder chart papers and 10 inkless pens along with the equipment without any extra cost.
24	Should supply suitable stabilizer if required along with the equipment without any extra cost.
25	Equipment should have USFDA or European CE certification.
26	Manufacturer should be ISO 9001 certified and should have ISO 13485 certification for quality standards.
27	It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Item no. 9 (Tender ID: 2019_HLL_37262_9)**Dielectric Tube sealer (Bench top)**

Sl. No	Technical Specification
1	The system should be heavy duty and simple to handle.
2	System should gently seal the blood bag tubing of all manufacturers with no haemolysis.
3	The sealing time should be within 2 seconds. It should be able to make at least 40 seals/hr.
4	Sealing triggering should be automatic.
5	The sealing length should be of at least 1 mm.
6	The sealing should provide a notch for easy detachment of the sealed tubing.
7	Should have indication lamps for "Sealing Process" on handle as well as main unit and LED.
8	No warm-up time should be required.
9	Should ensure easy separation of tube segments after the sealing.
10	System should run on mains.
11	Should be light weight not more than 8 Kg.
12	Power input: 220-240V/ 50 Hz AC.
13	The quoted model should have FDA or CE certificate and copy of the same should be enclosed along with the technical bid.
14	Should have the ISO certification and the copy of the same should be enclosed along with the technical bid. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Item no. 10 (Tender ID: 2019_HLL_37262_10)**Sterile Connecting Device**

Sl. No	Technical Specification
1	Should accommodate and weld all types of blood bags tubing in use in our country.
2	The welding should be seamless.
3	Should be capable of joining wet-wet/wet-dry/dry-dry tubes.
4	Digital, microprocessor controlled electronic bench top system is required with LED display.
5	Should be compact in size [LxWxH (in ft.) should not be more than 2x2x1.5].
6	The time taken to make one sterile connection should be less than 1 min.
7	Welding should not affect the quality of the tube in terms of its physical and chemical properties and it should not cause haemolysis.
8	It should have LED indicators/ display to show the actual status of the ongoing procedural steps and audio – visual alarm system for any functional irregularities.
9	The welding accessories should be available with the local agent throughout year.
10	The cost of consumable wafers per 100 pieces will be taken into account during price evaluation.
11	Original literature of equipment and consumables should be submitted.
12	Certifications:
12.1	European CE class II A or US FDA certified
12.2	Quality certifications: ISO certified. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Item no. 11 (Tender ID: 2019_HLL_37262_11)**Apheresis Machine**

Sl. No	Technical Specification
1	Continuous Flow Blood Cell Separator.
2	Single/Dual Needle operation. (Optional accessory required for Single Needle)
3	Should have the system to monitor the cell harvest of interest.
4	The equipment should perform all therapeutic and donor related apheresis procedures, which all should be US-FDA and/or European CE approved
5	Automatic Pump Loading & Priming of disposables sets.
6	Automated Self test to ensure maximum Donor Safety.
7	Built in Leukoreduction (<5 x 10 ⁶) for Platelets & Plasma.
8	Automatic Leukoreduction validation of platelets and plasma at the end of procedure.
9	Adjustable product concentration.
10	Separate Anticoagulation pump with custom programming adjustability
11	Configurable maximum volume depletion levels either by weight or percentage of Total Blood Volume.
12	Extracorporeal volume 150-250 ml
13	Inlet & return flow rate upto 20-100 ml/minute
14	Built in Access & Return Pressure sensor.
15	Built in air detectors to prevent air embolism.
16	Built in ACD Detector.
17	Built in contamination monitor for monitoring & preventing RBC contaminations in platelet collection and plasma exchange.
18	Audio visual alarms along with the tube sealer
19	Periodic Instrument Calibration certificate for the various parameters and QC of the products should be provided/maintained by the vendor
20	Additional accessories : All consumables required for installation & standardization should be supplied
21	European CE with 4 digit notified body no. or US-FDA approval and necessary approval from the licensing authority in India for the apheresis kit
22	Onsite training should be provided by the technical expert to the users as per requirement
23	The units shall be capable of being stored continuously in ambient temperature of 10 - 40C and relative humidity of 15-90%.
24	Bidder should provide suitable UPS along with equipment to provide adequate power back-up for at least 30 min. in case of power failure. UPS should be covered during warranty and CMC period.

Annexure-1

Essential consumables to be quoted (for bid ranking & fixing of year wise rates)		
		H
Sl. No	Name of the consumable	Quantity (approximate quantity over 10 years being factored for bid ranking only)
1	Apheresis Kits platelets	50000
2	Apheresis Kits stem cell harvest / All other procedures	20000

Item no. 12 (Tender ID: 2019 HLL 37262 12)**Dielectric Tube Sealer – Handheld**

Sl. No	Technical Specification
1	Purpose of Equipment: Handheld Blood Bag Tube Sealer is a compact handheld equipment to seal the Blood Bag pilot PVC tubing by transient radio frequency heating and sealing, with no hemolysis.
2	Quality Standard:
2.1	Equipment should have ISO 13485 certification and Manufacturer should have ISO 9001 certification.
2.2	Should be compliant with CE Class IIA or US FDA.
2.3	Equipment must meet electrical safety specifications of IEC 60601.
3	Should gently seal tubing with no hemolysis, using radiofrequency heating.
4	Should be capable of making wide seal of at least 2 mm width.
5	Should be rechargeable battery operated compact (less than 3 Kg) hand held type, not bench top type. It should have a portable hand unit with coaxial cable of 1.5 - 2 meter.
6	Sealing time should not be >2 sec
7	Electrodes should be well protected by a cover to prevent blood splutter.
8	Should have indicator lamp for sealing process
9	No warm up time should be required
10	Should have tear-seal feature to make segments that can be easily separated by hand
11	No. of seals per charge should be 500-700 continuous seals from a fully charged battery.
12	Charger should be compatible with Input voltage: 240V 50 Hz Single phase AC. It shall meet IEC-60601-1-2 (or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Item no. 13 (Tender ID: 2019 HLL 37262 13)**Haemostatic Analyzer**

Sl. No	Technical Specification
1	The equipment should be micro-processor-controlled offering point-of-care testing technique.
2	Measuring technique should be based on shear elastic modulus of a coagulating sample. The technique can be thromboelastography or thromboelastometry or coaguloviscometry.
3	The equipment must assess the patient's global haemostasis qualities viz. clot formation, kinetics, strength and breakdown.
4	It should have minimum two channels to simultaneously run two samples with all parameters of coagulation including platelet, fibrinogen and clotting function analysis.
5	It should have individual temperature control for each channel.
6	Cup drive should be line synchronized, with synchronous motor.
7	Initial warm-up time for cups and pins should be less than 5 mins with individual temperature control for each column.
8	It should be able to test both native whole blood as well as citrated whole blood.
9	Sample volume required for testing should be less than 0.5 ml.
10	It should be highly sensitivity to residual heparin detection.
11	It should have the facility to assess platelet inhibition w.r.t. antiplatelet drugs.

12	It must be able to give real time analysis of the tests.
13	Facility to perform quality check/control should be there. The consumables to perform quality control must be made available by the vendor at agreed cost in tender.
14	The firm must support complete LIS integration of the equipment.
15	The equipment should be portable [L x W x H: 1.5 ft x 1.5 ft x 1.5 ft or less] with weight < 10 kgs.
16	Training of technical staff to be provided at the time of installation. The firm must comply to bear the cost of consumables used during the induction training program.
17	Requirements and consumption rates for power (220V, 50 Hz) and drainage must be stated, and installation costs included. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.
18	Proposals must specify the requirement of additional equipment hardware, software and the Un-interruptible Power Supply (UPS) and/or stabiliser and must be provided, if required.
19	The firm must comply to provide consumable test kits for 100 tests without any extra cost. All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer.
20	Equipment must be capable of automatic recovery in the event of a power failure. The recovery must be complete and without loss of data, except any analysis being carried at the time of power failure.
21	The system must conform to current US-FDA and/or European-CE approved for in vitro diagnostics (IVD) and electrical safety (Category II).
22	Fully detailed operator manuals must be provided. Such manuals must be renewed as and when the instrument software or hardware is updated and must be supplied in English. An on-board trouble-shooting guide should be provided.
23	Certificates of Satisfaction must be submitted by the firm from 3 licensed blood banks associated with any academic institutions and/or accredited hospitals for the last 3 years.
24	Electrical: The equipment must be able to run on the existing electrical provision. Any additional electrical requirements must be specified by the firm.

Annexure - 1A

REAGENT COST (for bid ranking & fixing of year wise rates)						
		A	Reagent Pack Details			
	List of Parameters	No. of tests (approximate load over 10 years being factored for bid ranking)	Reagent Pack - make/brand	Pack Catalogue No.	No. of tests/pack	Total No. of Reagent packs to be used for No. of tests in column "A"
1	<u>Hemostatic analyser</u>					
	Kaolin,	10,000				
	Ca. Chloride,	10,000				
	Cups and Pins,	10,000				
	Platelet mapping,	10,000				
	Fibrinogen,	10,000				
	Rapid TEG	10,000				

Annexure - 1B

Consumable cost other than reagents (for bid ranking & fixing of year wise rates)					
Items/ Pack Details					
Sl. No.	Type of Consumable (Bidder may add additional rows)	Details of Tests / Analyzers/ Equipment, etc. the consumable is being used for	Make/ brand	Catalogue No.	Total No. of Consumable item/ packs to be used for cumulative no. of tests as detailed in column "A" of Annexure-1A
1	Calibrators				
2	Quality controls				
3	Additives				
4	Cleaners				
<p>Important Note: Any reagent, consumables & Essential consumables required for performing tests, calibration, quality control, cleaning the lab system, as per quantities detailed in column "A" of Annexure-1A if not quoted shall be provided free of cost by the bidder during the validity of the contract.</p>					

Item no. 14 (Tender ID: 2019 HLL 37262 14)**Refrigerated Blood Bag Centrifuge**

Sl.No	Technical Specification
1	Design: Stable, sturdy all-steel design with stainless steel rotor chamber. Easy to clean / corrosion resistant paintings
2	Max. rcf : 6,000 x g to 6400 x g
3	Max. speed: At least 4,000 rpm to 4500 rpm.
4	Max. volume: Should be able to accommodate twelve or sixteen 350 ml and 450 ml single, double, triple, quadruple, quintuple blood bags with SAGM bag and empty satellite bags with 'In Line filter system'.
5	Drive unit: Maintenance free induction drive.
6	6. Operation:
6.1	Should have 25-30 programming of all parameters
6.2	Should have digital display
7	Programme: Should be tamper proof.
8	Safety of operation : Lid-lock and interlock, imbalance display and cutout, steel-armoured chamber, protection of overheating of rotor and compressor
9	Protection of data: In event of power interruption or complete failure, data should remain stored for 2-3 weeks
10	Documentation: Should have software which should be compatible with hospital information system of the institute and/or Blood Bank software any interfacing required must be provided by the firm.
11	User-friendly handling: The equipment should be movable on castor wheels however it should have facility to be placed on four solid feet. There should be no

	need for ground fixing. Digital display should have keys for controlling basic functions located on the front panel of the machine for immediate access. The machine should be equipped with an automatic lid lock.
12	Digital display and adjustment parameters should Include:
a.	Acceleration: Different acceleration profiles
b.	Deceleration: Different deceleration profiles
c.	RCF value: 4 digit, should be adjustable
d.	Speed: 4 digit, should be adjustable
e.	Centrifugal time: Format should be as hour and minutes
f.	Programme number: Multiple programmes
g.	Temperature control: Adjustable in 10 intervals
h.	Temp. range: 4degC to +22degC
i.	Min. temp. at max. rcf: 4degC
j.	Error message: Programme error, imbalance, lid open or any other error
13	Refrigerant: CFC-free
14	Warm air Outlet: From sides and rear/front of the Machine
15	Should be supplied with following Standard Accessories:
15.1	Swing-out rotor with/without wind shield, should be able to accommodate twelve or sixteen 350ml and 450ml single, double, triple, quadruple/quintuple blood bags with SAGM bag and empty satellite bags with In Line filter system.
15.2	Six or Eight (6 or 8) buckets (one bucket for 2 blood bags) for centrifuging 12 or 16 units of bags.
15.3	Removable Plastic inserts, for centrifuging twelve or sixteen 350ml and 450ml single, double, triple, quadruple/quintuple blood bag system with SAGM bag and empty satellite bags with In Line filter system for preparing blood components like Red Blood Cells, Plasma /FFP/ Platelets concentrate and Cryoprecipitate.
15.4	One extra set of above Plastic inserts will have to be provided by the firm.
15.5	The firm must supply balancing weights and balancing plates.
15.6	The firm must supply Hook adapter to spin small volume of Cord Blood and Buffy coat.
15.7	Operation and Maintenance manual should be provided in original.
15.8	Firm must supply the stabilizer with the equipment.
16	Noise Level should be less than 70 dB
17	Firm should supply the relevant calibration certificate for the equipment from NABL accredited Lab.
18	Original literature of equipment should be submitted.
19	Should be US-FDA or European CE certified.
20	Manufacturer should be ISO 9001certified and should have ISO 13485 certification for quality standards. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.
21	Bidder should provide suitable UPS along with equipment to provide adequate power back-up for at least 30 min. in case of power failure. UPS should be covered during warranty and CMC period.

Item no. 15 (Tender ID: 2019 HLL 37262_15)**Bio-Safety Cabinet**

Sl. No	Technical Specification
1	Tabletop model, well lighted, work space, low vibration and noise. Easy to maneuver due to caster wheel provision. Overall dimension of workspace should be approximately 1200 mm x 600 mm x 600 mm. Class 2A type.
2	Construction:
a.	Cabinet: Stainless steel sheet of 20 SWG lining
b.	Front panels: Removable transparent scratch resistance sheet of approximately 6 mm thickness
c.	Side Panels: Fixed transparent scratch resistant sheet of approximately 6 mm thickness.
3	Firm will have to supply the stabilizer with the equipment if required.
4	Electrical: 230 volts 50 Hz, Single Phase. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Item no. 16 (Tender ID: 2019 HLL 37262_16)**Table Top Centrifuge**

Sl. No	Technical Specification
1	The firm must supply swinging bucket rotor. Swing bucket rotor must accommodate at least 16 tubes of 12x100 mm tubes.
2	It must have option of braking system so that the centrifuge stops within 60 ± 10 secs.
3	Noise level must be strictly less than 60 dB and documentary certificate for the same is to be furnished by the firm.
4	Max. Speed: up to 1,000 to 4000 rpm, maximum RCF must be ≥ 2000 xg (Swinging bucket rotor)
5	Must have provision for setting the timer.
6	Must have inverter controlled Brushless Induction drive system
7	Safety features: Lid locking, Emergency lid release, Lid dropping protection, Automatic rotor recognition, Imbalance detector and shut-off, Motor overheating protection, Over speed sensors/detector must be available in the equipment.
8	Display: LED display with user-friendly soft-touch tactile buttons with easy to use User-interface.
9	Dimension: Must be < 20 inch (W) x < 30 inch (D) x < 20 inch (H) mm.
10	Centrifugation chamber must be made up of rust-free stainless steel for better durability.
11	Power Requirement: Single phase, AC 220/240 V, 50Hz. The equipment must be able to run on the existing electrical provision. Any additional electrical requirements must be specified by the firm
12	Ambient temperature and humidity for operation: from 2 to 45 °C with 10-90% humidity.
13	The firm must supply suitable separate sturdy tables for installing each of the centrifuges.
14	Firm must submit validation and calibration reports for speed, acceleration/deceleration and time which must have traceability to applicable national and international standards.
15	Fully detailed operator manuals must be provided.

16	Equipment should have USFDA or European CE certification.
17	Manufacturer should be ISO 9001 certified and should have ISO 13485 certification for quality standards. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility

Item no. 17 (Tender ID: 2019_HLL_37262_17)

Cooling Table

Sl. No	Technical Specification
1	Applications: used for temporary storage of blood units for labelling etc. to maintain cold chain. It must maintain temperature between 4- 6°C with stability of $\pm 2^{\circ}\text{C}$
2	Must have inclined work space to evacuate the condensation with facility for drainage so that there is no accumulation of water on table.
3	Must have automatic defrost with static cooling / Air condenser
4	Must have a hood over the table working area to stabilize the required temperature
5	Must have independent power supply.
6	Dimensions:
6.1	External: 2000mm(L) x 1000mm(W) x 1000mm (H)
6.2	Working area (Min.): 1500mm x 700mm x 200mm
7	Electrical requirement: 230V / 50Hz, Single phase. The equipment must be able to run on the existing electrical provision. Any additional electrical requirements must be specified by the firm.
8	Must perform at an ambient temperature range of up to $+45 \pm 1^{\circ}\text{C}$ and Relative Humidity of 10-90%
9	Firm must submit the documentation for qualifications for design, installation, operation and performance.
10	Firm must submit validation and calibration reports which must have traceability to applicable national and international standards.
11	Fully detailed operator manuals (English) must be provided.

Item no. 18 (Tender ID: 2019_HLL_37262_18)

Automated 5-part blood cell counter

Sl. No	Technical Specification
1	Should be fully automated 5 Part differential hematology analyzer based on flow cytometry, Light scattering.
2	Should have automatic start-up, shut down and sample analysis facility.
3	Should have five discrete analysis modes CBC, CBC+ DIFF, CBC + Retic, CBC+Retic+Diff & Retic only
4	Should give WBC, RBC, HGB, HCT, MCV, MCH, MCHC, CHCM, RDW, HDW, PLT, MPV, PDW, PCT, % RETIC, # RETIC, Absolute & % values for NEUT, LYMPH, MONO, EOS, BASO
5	Should have an Auto Sampler with capacity of at least 20 tubes at a given time. A single sample rack should be able to accommodate tubes of different sizes.
6	Should have throughput of at least 50 samples per hour in CBC and CBC / Diff. mode & 30 samples per hour in Retics mode.
7	Should have multi-channel analysis for better resolution & reproducibility's like

8	Platelets – Should have Dual angle Light Scatter
9	RBC – Should have light Scatter
10	HGB – Should have photometric and direct cellular measurement
11	Retics – Should have on board, light scatter for reticulocytes
12	Should have clot detection facility
13	Should have on-board reagents facility and automatic reagent inventory management.
14	Should had have linearity at least as follows
a.	WBC - 0.02- 400 x 10 ³ /ul
b.	RBC - 0 - 7.0 x 10 ⁶ / ul
c.	PLT - 5 - 3500 x 10 ³ / ul
d.	HGB - 0- 22.5 g/d
e.	RETIC – 0.2- 24.5%
15	Should be free of tubings & pinch valves ensuring minimum maintenance
16	Should have Carryover of < or = to 1 % for all parameters
17	Sample volume required in all modes not to exceed 200 ul.
18	Dead volume required should be < 300 ul.
19	Should have extensive QC features
a.	3D Bar & SDI Graphs
b.	LJ plot
c.	Table Format
d.	Delta checks for cumulative review
e.	Patient moving average
f.	QC file management
20	Should have comprehensive Data management such as
21	User-friendly Windows 2000 based software
22	Network integration should be possible with lab information system
23	Database storage capacity of at least 10, 000 records including graphics
24	Should be FDA or European CE certified
25	Bidder should provide suitable UPS along with equipment to provide adequate power back-up for at least 30 min. in case of power failure. UPS should be covered during warranty and CMC period.

Annexure - 1A

REAGENT COST (for bid ranking & fixing of year wise rates)						
		A	Reagent Pack Details			
	List of Parameters	No. of tests (approximate load over 10 years being factored for bid ranking)	Reagent Pack - make/ brand	Pack Catalogue No.	No. of tests/ pack	Total No. of Reagent packs to be used for No. of tests in column "A"
1	5-Part Hematology					
	CBC	1,50,000				
	CBC + Diff	1,50,000				
	CBC + Diff +Retic	75,000				

Annexure - 1B

Consumable cost other than reagents (for bid ranking & fixing of year wise rates)					
Items/ Pack Details					
Sl. No.	Type of Consumable (Bidder may add additional rows)	Details of Tests/ Analyzers/ Equipment, etc. the consumable is being used for	Make/ brand	Catalogue No.	Total No. of Consumable item/ packs to be used for cumulative no. of tests as detailed in Column "A" of Annexure-1A
1	Calibrators				
2	Quality controls				
3	Additives				
4	Cleaners				
<p>Important Note: Any reagent, consumables & Essential consumables required for performing tests, calibration, quality control, cleaning the lab system, as per quantities detailed in column "A" of Annexure-1A if not quoted shall be provided free of cost by the bidder during the validity of the contract.</p>					

Item no. 19 (Tender ID: 2019 HLL 37262 19)**Coagulation Analyzer**

Sl. No	Technical Specification
1	The equipment should be a table top, four channel, and random access open system.
2	The instrument should be able to provide simultaneous measurement of Clotting assays.
3	Principle of clot detection must either be turbidimetric/ turbodensitometric/ mechanical clot detection or LED optical detection methods.
4	Technology should be insensitive to lipaemic, coloured, hemolysed plasma and turbid reagent.
5	It must be able to run minimum tests which should include but not limited to PT, APTT, Fibrinogen, Factor VII and Factor VIII.
6	The instrument must use spun plasma and preferably be able to use primary sample tube.
7	The test analyses must be complete in 6-10 minutes. Throughput/hour should not be less than 30 samples.
8	Instrument should be able to automatically detect sample and reagent positions.
9	Instrument should have data storage capacity of minimum of 100 tests.
10	Multi batch Q.C., Levy- Jennings graphs should be available in the system.
11	Automatic mixing for sample and reagents should be possible.
12	It must be able to integrate with the blood bank software.
13	Must be able to perform in an ambient temperature range of up to +45 ± 1 °C and Relative Humidity of 60-90%.
14	It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Annexure - 1A

REAGENT COST (for bid ranking & fixing of year wise rates)						
		A	Reagent Pack Details			
Sl. no.	List of Parameters	No. of tests (approximate load over 10 years being factored for bid ranking)	Reagent Pack - make/ brand	Pack Catalogue No.	No. of tests/ pack	Total No. of Reagent packs to be used for No. of tests in column "A"
1	Coagulation Analyzer					
	PT	20,000				
	aPTT	20,000				
	Fibrinogen	20,000				
	Factor VII	20,000				
	Factor VIII	20,000				

Annexure - 1B

Consumable cost other than reagents (for bid ranking & fixing of year wise rates)					
Items/ Pack Details					
Sl. No.	Type of Consumable (Bidder may add additional rows)	Details of Tests / Analyzers/ Equipment, etc. the consumable is being used for	Make/ brand	Catalogue No.	Total No. of Consumable item/ packs to be used for cumulative no. of tests as detailed in column "A" of Annexure-1A
1	Calibrators				
2	Quality controls				
3	Additives				
4	Cleaners				
	Important Note: Any reagent, consumables & Essential consumables required for performing tests, calibration, quality control, cleaning the lab system, as per quantities detailed in column "A" of Annexure-1A if not quoted shall be provided free of cost by the bidder during the validity of the contract.				

Item no. 20 (Tender ID: 2019 HLL 37262 20)**Wireless Data Loggers**

Sl. No	Technical Specification
1	Used for Real Time alarms and collection of Data from blood bank equipment.
2	The system should be radio frequency based system and approved in India
3	The system must have provision to cover more than 30 locations on a single receiver and software
4	Software must be 21 CFR part 11 compliant
5	User defined for collection and transmission of Data from 1 minute to 1 day
6	Sensors must be calibrated
7	Accuracy of temperature ± 0.1 °C
8	Digital signaling for no loss of data
9	The alarms are transmitted by landline, mobile phone, email, fax and print out
10	Alarms are generated for any technical fault e.g. physical damage to the sensors.
11	The software is LAN enabled
12	Repeaters can be used to boost signal between radio receiver and radio module.
13	Wireless for fast and hassle free installation
14	Dual probe for humidity and temperature
15	Temperature range covering from 100 C to - 85 C with different modules
16	User friendly software for easy monitoring of parameters
17	Software can be upgraded
18	3000 internal memory points for temperature module
19	Hardware required should also be provided
20	Original literature of equipment must be submitted.
21	Should have a valid certification specific for the product which must be submitted by the firm.
22	Firm must supply the relevant calibration certificate for the equipment from an accredited agency.

Item no. 21 (Tender ID: 2019 HLL 37262 21)**Lab Autoclave**

Sl. No	Technical Specification
24	Lab Autoclave
1	Should be a fully automatic microprocessor based High pressure, high vacuum autoclave for sterilizing material including blood bags, disinfection of materials and waste decontamination.
2	Should be top loading, have Rectangular, vertical chamber with well insulated jacket, chamber Volume minimum 45 liters or more.
3	Should have single sliding door to have a pass through system. Door should have the following features.
a.	Electrically controlled having fully automatic function with multiple safety arrangements.
b.	Sealing system should be based on silicone seal.
c.	Should have at least 50mm thick insulation materials on jacket and in doors to ensure low thermal losses. Working temp. of the door should be less than 45 °C.
4	Should be high grade Stainless steel.
5	Should have preferably a built in Color touch screen.
6	Should have audio visual alarms in case of undesired situations.

7	Should have programmable Operators access level.
8	Should have pre programmed standard cycles and user programmable cycles.
9	Should have temperature adjustable from 121 Deg. C. to 135 Deg. C.
10	Safe Working pressure range should be from 15 to 32 PHI (1.1 bar – 2.2 bar)
11	Should have complete monitoring of cycle operation and provided with at least two pressure sensors and two Temp. Sensors in addition to analog meters for chamber pressure, jacket pressure and steam generator pressure indication.
12	The unit should be equipped with multiple safety mechanisms for Emergency Stop over pressure safety valves for chamber and jacket, over temp safety, steam traps and electrical safety.
13	The unit should include Non fade built in thermo-recorder for step progress values during the cycles with time and date and alarm condition if any.
14	Should have built in feature of Water Saving System for water conservation.
15	Should be supplied with complete set of high quality stainless steel trolleys and sterilization baskets:
a.	External trolley = 01 nos.
b.	Internal trolley with steel roller
c.	Shelves = 01 nos. and
d.	sets of Sterilization baskets.
16	All accessories & electric fitting must be supplied by the firm.
17	Three compulsory visits for calibration and checkup irrespective of complaints in year.
18	The steam Generator should be also be made of Ti steel & the steam generator should be equipped with automatic cleaning facility.
19	The equipment must have Integrated waste water cooling, integrated water saving device and draining facility.
20	The equipment should be having ports (RS 232 or equivalent) for LIS interface.
21	Should be US FDA/European CE certified. It shall meet IEC-60601-1-2 (or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Item no. 22 (Tender ID: 2019 HLL 37262 22)

Reagent Refrigerator

Sl. No	Technical Specification
1	Storage Capacity: Should be at least 600 Liters capacity.
2	Set temperature 4°C with temperature range 2°C to 6°C and adjustable with setting accuracy of ± 0.1°C.
3	Refrigeration: Non-CFC cooled refrigeration.
4	Should have good insulation to maintain required temperature.
5	Should have good metallic door.
6	Microprocessor based temperature controller with integrated audiovisual temperature and power alarm function with digital monitoring display.
7	Safety features: Audio alarm for all the following parameters should be there - temperature fluctuation & power failure, set point alarm, low alarm point, Door opening audio and visual display alarm.
8	Safety thermostat to avoid negative temperatures.
9	Should have battery backup for temperature display and power alarm.
10	Internal temperature hold over time in case of power failure should be at least 1.5 hours.
11	Should have castor wheels with locking facility.
12	While in operation, the noise level must not exceed 60 dB.
13	Original literature of equipment should be submitted.

14	Firm should supply the relevant calibration certificate for the equipment from NABL accredited Lab.
15	Firm should supply the temperature recorder chart paper (1000 nos.). The cost of the temperature recorder chart paper will be included in the total cost of the equipment financial comparison.
16	Equipment should have USFDA or European CE certification.
17	Manufacturer should be ISO 9001 certified and should have ISO 13485 certification for quality standards. It shall meet IEC-60601-1-2 (or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.

Item no. 23 (Tender ID: 2019_HLL_37262_23)

Aggregometer

Sl. No	Technical Specification
1	Aggregometer must be working on the principle of Optical turbidimetric and/or Impedance aggregometry with provision to use open or registered manufacturer supplied reagents.
2	It should have 2/4/8 channels for platelet aggregation tests in Platelet Rich Plasma (PRP)/ Whole Blood (WB)/ Washed Platelets (WP).
3	Sample requirement for aggregation in PRP/ WB/ WP should be less than 500 µl.
4	It should have adjustable stirrer speed up to 1200 RPM.
5	It should be provided with electronic pipette with memory.
6	It should enable the user to run standardised test procedures as well as user defined test templates.
7	It should provide information w.r.t. Heater block temperature in °C, Stirring speed in RPM, Operating mode and Warning message
8	Computerised data analysis with appropriate system software with CD-Writer for convenient storage and retrieval of data, colour monitor and colour laser printer must be included. System should include an internal computer interface, Compatible Operating system, and comprehensive software for measuring simultaneous aggregation.
9	Software on-board should provide for real time display of aggregation, Computation of amplitude, slope, log time and area under the curve, Storage of reagent data for tracking test value, demography details, for later recall.
10	It should be US-FDA or European-CE certified product.
11	Manufacturer should be ISO Certified.
12	Firm must provide appropriate stabiliser or UPS (if required) with 1-hour battery backup.
13	The recommended maintenance kit, for trouble free operation and maintenance of the system for a minimum period of five years should be quoted.
14	The Firm should provide price for all the reagents (for ADP, Arachidonic acid, Epinephrine, Collagen and Ristocetin) and consumables (Cuvettes, Magnetic stirrer beads) required for next 10 years.
15	Certificates of Satisfaction must be submitted by the firm from 3 licensed blood banks associated with any academic institutions and/or accredited hospitals for the last 1-3 years.
16	The bidder has to produce a certificate assuring that they have an application specialist based in Delhi & who will be attending any test related problem within reasonable time to ensure zero/ minimal down time.

Annexure-1A

REAGENT COST (for bid ranking & fixing of year wise rates)						
		A	Reagent Pack Details			
Sl. no.	List of Parameters	No. of tests (approximate load over 10 years being factored for bid ranking)	Reagent Pack - make/brand	Pack Catalogue No.	No. of tests/ pack	Total No. of Reagent packs to be used for No. of tests in column "A"
1	Aggregometer					
	Cuvettes	50,000				
	Magnetic stirrer beads	50,000				

Annexure - 1B

Consumable cost other than reagents (for bid ranking & fixing of year wise rates)					
Items/ Pack Details					
Sl. No.	Type of Consumable (Bidder may add additional rows)	Details of Tests / Analyzers/ Equipment, etc. the consumable is being used for	Make/brand	Catalogue No.	Total No. of Consumable item/ packs to be used for cumulative no. of tests as detailed in column "A" of Annexure-1A
1	Calibrators				
2	Quality controls				
3	Additives				
4	Cleaners				
Important Note: Any reagent, consumables & Essential consumables required for performing tests, calibration, quality control, cleaning the lab system, as per quantities detailed in column "A" of Annexure-1A if not quoted shall be provided free of cost by the bidder during the validity of the contract.					

Item no. 24 (Tender ID: 2019 HLL 37262 24)**Bacterial Detection System**

Sl. No	Technical Specification
1	The system should be non-radiometric assay (Fluorescent or similar Technology) based fully automated Microbial detection system and should be capable of detecting growth of the pathogenic micro-organisms.
2	It should be fully automated, walk-away, and random- access system.
3	The system should be able to detect fungal, aerobic and anaerobic organism from the blood.
4	System must have specialized FDA approved Media Bottles for quality control testing of platelets for detecting both aerobic and anaerobic microbes.
5	The system should have a capacity of holding minimum of 30 bottles at a time,

	modular and upgradeable for future requirements.
6	The system should have the capability of continuous monitoring of the samples.
7	Every cell (bottle position) should have its own optics and detection device.
8	System should have specific algorithms for detection of growing micro-organisms and should be capable of continuous monitoring of all samples for growth of micro-organisms.
9	The system should have the capability of analyzing and detection of delayed entry of specimens at growth, stationary and decline stage (both log & lag Phase).
10	System should be having continuous agitation and incubation facility to provide optimal growth of microorganisms.
11	The bottled media should be capable of neutralizing the effect of antibiotics.
12	System should support for processing Pediatric Samples.
13	The culture bottles should be made of unbreakable plastic / Glass with long neck and should be fully compatible with holders without the need for a special adapter
14	System should have interface for lab/ hospital information system.
15	The system must conform to current US-FDA and/or European-CE approved for in vitro diagnostics (IVD) and electrical safety (Category II).
16	Fully detailed operator manuals must be provided. Such manuals must be renewed as and when the instrument software or hardware is updated and must be supplied in English. An on-board trouble-shooting guide should be provided.
17	Certificates of Satisfaction must be submitted by the firm from 3 licensed blood banks associated with any academic institutions and/or accredited hospitals for the last 3 years.
18	Electrical: The equipment must be able to run on the existing electrical provision. Any additional electrical requirements must be specified by the firm.

Annexure - 1 A

REAGENT COST (for bid ranking & fixing of year wise rates)						
		A	Reagent Pack Details			
Sl. no.	List of Parameters	No. of tests (approximate load over 10 years being factored for bid ranking)	Reagent Pack - make/ brand	Pack Catalogue No.	No. of tests/ pack	Total No. of Reagent packs to be used for No. of tests in column "A"
1	<u>Bacterial Detection System</u>					
	Aerobic culture bottles	50,000				
	Anaerobic culture bottles	50,000				

Annexure - 1B

Consumable cost other than reagents (for bid ranking & fixing of year wise rates)					
Items/ Pack Details					
Sl. No.	Type of Consumable (Bidder may add additional rows)	Details of Tests / Analyzers/ Equipment, etc. the consumable is being used for	Make/ brand	Catalogue No.	Total No. of Consumable item/ packs to be used for cumulative no. of tests as detailed in column "A" of Annexure-1A
1	Calibrators				
2	Quality				

	controls				
3	Additives				
4	Cleaners				
<p>Important Note: Any reagent, consumables & Essential consumables required for performing tests, calibration, quality control, cleaning the lab system, as per quantities detailed in column "A" of Annexure-1A if not quoted shall be provided free of cost by the bidder during the validity of the contract.</p>					

Item no. 25 (Tender ID: 2019 HLL 37262 25)

Blast Freezer

Sl. No	Technical Specification
1	Rapid plasma bag (200 to 1000 ml) freezing to core temperature of -30 °C. Operation temperature of -50°C without rupturing plasma bags.
2	Minimum capacity of 24 bags of 250ml.
3	Contact plate shock freezing technology with only bottom contact plate moving upward. Refrigeration for both plates.
4	Rapid freezing to handle several batches in a day without losing freezing temperature.
5	Able to achieve plasma bags (200 to 500ml) core temperature of -30 °C within 30 minutes at ambient temperature of 32 °C
6	Multi-channel process & controller-with temperature controller, monitor with capacity to produce validation graphs.
7	Solid cabinet casing with high grade stainless steel to prevent corrosion with smooth lockable castors.
8	Easily cleanable working surfaces.
9	Ergonomic design, compact, service- maintenance friendly construction. Trouble free cleaning and disinfection.
10	Castors for mobility with stabilizers/peripherals
11	Integrated colored LCD process automatic controller:
12	Indicating top and bottom plate temperature.
13	Indicating reference dummy bag-sensor temperature.
14	Indicating freezing process.
15	Indicating freezing time.
16	Indicating temperature diagram.
17	Indicating defrosting process.
18	Selector switch freezing / defrosting
19	Selector button table open / close.
20	Emergency switch off button.
21	Main switch on / off.
22	8 control channel & 4 program channels
23	50 programs, with 1000 segment under dynamic management.
24	Multi-channel processor with color display.
25	Semi-hermetic (repairable) air cooled compressor with reliable refrigeration and low noise and vibration.
26	Short pre-cooling phase to -50°C in 20 minutes.
27	Refrigerant CFC free
28	The equipment of continuous duty and frost free.
29	Hot Gas Defrosting, with less than 10 minutes

30	Meeting protection class I Safety.
31	Standard package with accessibility for network connection (RS 232, 485, Ethernet/LAN/ or any equivalent) for temperature recoding and monitoring to validation requirements.
32	Conforming to EMI directive /EEC, Low voltage directive.
33	Optional Barcode reader & software
34	Power failure alarm, Phase error alarm,
35	Operational on 3 phase 400 V at 50 Hz. 32 A. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.
36	Max energy consumption of 1500-2000 W per cycle
37	Power rate 4 KW.
38	Equipment should be USFDA or European CE certified

Item no. 26 (Tender ID: 2019 HLL 37262 26)

Walk-in modular cold room

Sl. No	Technical Specification
1	Purpose of Equipment: Walk in cold room to store blood bags and reagent kits at an appropriate temperature of 4-6°C until specified expiry dates. It should be able to maintain a temperature range of 4 ± 2 °C (Accuracy: 1 °C).
2	Type of Equipment: Should be operating with CFC-free refrigerant gas and must include all insulated walls, ceilings, doors, mechanical refrigeration systems, controls, internal lighting, and other ancillary items required for a completely fabricated and operational walk-in.
3	External Dimension: 11 ft. (D) x 13 ft. (W) x 7.5 ft (H)
4	Wall and ceiling panels must be made up of non-ozone depleting material and Polyurethane Foam (PUF) insulated panels (minimum 6 cm thick).
5	Panels shall consist of CFC-free insulation sandwiched between interior and exterior wall.
6	Panel edges must have air tight vapour proof joint. Edges must be smooth.
7	Construction shall allow disassembly for possible relocation or expansion at a later date.
8	The entire interior surface and front panel of the exterior surface must be made up of stainless steel (Min. 0.5 mm thick) and rest of the exterior surface facing the walls must be made up of pre painted galvanized iron sheets (PPGIS).
9	Door construction: Door construction shall match the insulated panels with sliding doors.
10	Safety features:
a.	It must have pad lock system and Human safety release knob.
b.	Safety latch on the inside of door must be provided to allow anyone trapped inside to get out and/or an alarm (panic button).
c.	Inside the chamber, a glass window of (dimension: min. 1 sq. ft.) must be placed as a safety measure.
d.	Lighting: LED light fixtures suitable for the environment are to be provided by the supplier. Manual door open lighting system must be present.
e.	Floor panel must also be insulated by PUF with granite/ Kota stone flooring which must withstand load of up to 5000 kgs.
11	Refrigeration System:
a.	All refrigeration piping required shall be furnished and installed by the manufacturer (turnkey basis).
b.	Condensing units and evaporator coils should preferably but not mandatorily be from the same manufacturer. The responsibilities of maintaining both the equipment lies with the supplying firm.

c.	Two air-cooled condensing and evaporating units must be of 10,000 BTU capacities to achieve and maintain the individual room operating temperature requirements and must be sized to handle additional loads appropriate for the application.
d.	Both refrigeration systems must have back-up and emergency automatic and programmed switch-over of refrigeration systems to ensure uninterrupted cooling. Air cooling system should be split type.
e.	Refrigeration lines must be insulated to prevent any condensation and insulation exposed to the weather must have additional protection.
12	Must have low noise level (< 60 dB) and minimal vibration.
13	Option of Pre-set alarm at +1.5 °C and +8 °C must be provided.
14	Two separate Temperature Display Units (Digital LED/LCD) at 0.1 °C graduations must be provided for the two cooling units.
15	Audio-visual alarms: Temperature out of range, door open alarm system and power failure warning with battery back-up must be installed.
16	For continuous Temperature Recorder a digital temperature data logger as well as a 31 days chart with battery back-up must be provided with an in built thermal printer.
17	Shelves: Firm must supply suitable stainless steel racks for storage of blood bags and kits according to the design and dimensions required by the department. The racks should have minimum of 6-8 shelves (Depth of 18 inches each). The edges must be smooth and non-traumatic. Hooks for hanging blood bags must be provided on the inner walls as per the requirement of the department.
18	Air Circulation: Forced air circulation to maintain uniformity of temperature of the chamber.
19	Cold-room should be able to function at an ambient external temperature of +20-45 ± 1 °C and in humidity of up to 90%.
20	Separate drain line provision must be installed for the drainage waste water generated from floor cleaning. Condensate drain line must be provided which should run in copper tubing to nearest floor sink. To prevent condensation, drain line is to be insulated where it exits the insulated panels. All this has to be done by the firm.
21	Installation: Supplier must install the cold room as per the requirement. The supplier must test all equipment operation and performance of walk-in cold room and to make all adjustments and repairs as and when required.
22	The manufacturer should have ≥ 10 years of documented experience for manufacturing modular cold rooms. Should have installations in atleast three licensed Blood Banks associated with Govt Medical Institutes and/or NABH/JCI accredited hospitals, and proof of the same should be submitted along with technical bid.
23	Supplier shall have the demonstrated ability to produce the specified equipment of the required quality and the proven capacity to complete an installation of this size and type within 1 month of time limit.
24	Firm must submit the documentation for qualifications for design, installation, operation and performance and should take the complete responsibility for commissioning the unit.
25	Firm must submit validation and calibration reports which should have traceability to applicable national and international standards.
26	Fully detailed operator manuals must be provided in English.
27	Electrical: Nominal input voltage: AC, 220/240V, 50Hz, Single phase with 2 MCBs of 32 Amps each. Equipment meets electrical safety specifications such as that of the IEC 61010-1. The equipment must be able to run on the existing electrical provision. Any additional electrical requirements must be specified by the firm.
28	Equipment should have USFDA or European CE certification.

Item no. 27 (Tender ID: 2019 HLL 37262 27)**Binocular Microscope**

Sl. No	Technical Specification
1	Binocular microscope should have universal infinity corrected optical system.
2	Binocular Microscope should have inbuilt light source and high quality imported achromatic optics.
3	It should have LED light source illumination.
4	Equipment should have Rigid frame with ergonomics design.
5	Binocular observation tube should have inclination of 45/30 degrees
6	It should have Built in torque adjustable focusing knob.
7	It should have Square mechanical stage with rigid hand coaxial control.
8	Equipment should have Abbe condenser, Iris diaphragm.
9	Equipment should have Revolving Quintuple nose piece.
10	Equipment should be supplied with Plan achromat objectives 4X , 10X, 40X, 100X (Oil).
11	40X, 100X objective should be spring loaded.
12	Should have an Eye piece 10X (FOV 20).
13	Antifungal treatment should be applied to the observation tube, eyepiece and objective.
14	Power supply: 230 V,50 Hz AC.
15	System Configuration Accessories, spares and consumables
15.1	Binocular Microscope-1 nos
15.2	Dust Cover
15.3	Power Cord
16	Standard, Safety and Training
16.1	The manufacturer should have ISO certification.
16.2	Equipment should have US FDA or European CE certification.
17	Documentation
17.1	User/Technical/Maintenance manuals to be supplied in English (Soft copy & Hard copy).
17.2	Certificate of calibration and inspection from factory.

Item no. 28 (Tender ID: 2019 HLL 37262 28)**Micro pipette set (Manual adjustable)**

Sl. No	Technical Specification
1	Should be manual adjustable micropipette set having the following capacities
a.	1 – 2.5 µl
b.	0.5 – 10 µl
c.	2-20ul
d.	10-100ul
e.	20 – 200 µl
f.	100- 1000ul
2	Fully autoclavable.
3	Must show accuracy in measurement
4	Ejector should ensure safe eject contaminated tips, positioned for perfect ergonomics.
5	Must have precision in control, spring loaded tip cone.
6	One-button operation for aspiration, dispensing and tip ejection.

7	Volume setting automatically locks.
8	Chemically resistant.
9	4-digit display.
10	Accuracy: +/- 1% for all.
11	Calibration certificate should be provided with the supply.
12	Disposable tips 5000 each volume.
13	Should be supplied with tips holder rack & pipettes stand.
14	Equipment should have USFDA or European CE certification

Item no. 29 (Tender ID: 2019 HLL 37262 29)**Blood Bank Software**

Sl. No	Technical Specification
A.	General specifications
1	A web based software that fulfils all the requirements starting from registration of the donors to the transfusion of blood components to the patients including all the investigations that are carried out in the blood bank.
2	The software must be provided with security features against any virus, malware attack etc. The data will not be shared with any other organization/institution.
3	At the time of demonstration for technical evaluation, the required standard features must be available in software.
4	Provision of biometric fingerprint/ iris scanning, AADHAR integration, capturing of donor photograph, donor registration through web/mobile self-registration, self-registration at kiosk, and option for other biometric methods must be provided.
5	Data encryption for data security must be in-built in the software. The data shall be property of NCI-AIIMS and at no cost be allowed to be shared by any organization/institution in India or Abroad.
6	Basic requirements must be fully incorporated in the software at the time of installation and time bound customization within a given time frame of 6 months.
7	Must have different customized modules as per the requirement of each laboratory/section and must provide integration of all blood bank equipment with main software.
8	The firm must support for developing any new module in future for any new tests and/or procedures that may be chargeable. The heads of charges for the same should be written in the technical bid.
9	Administrative right to access server, cloud server, application modules to modify certain specified field and values to be given to the designated blood bank authority.
10	Must have option to send SMS and email alerts for donors that can be auto generated, custom or manual to multiple number of blood donors.
11	Must provide interfacing with various blood bank equipment with the software by instant/pool consumption of the data received through interfacing of equipment.
12	Inventory management with facility of verification of physical stock tallying with barcode scanning. Facility to send alert system via email or SMS to officer In-charge in case of shortage of blood units with pre-defined stock limits for each element must be provided.
13	Must be integrated with HIS system of NCI-AIIMS.
14	Store management modules for accepting and releasing bulk store supply to allow user consumption and must have an alert system via SMS, email if stock is low.
15	Biomedical waste management modules from generation of waste to the discard of reactive, expired blood product or any other hospital waste material according to

	guidelines that are issued from time to time.
16	Flash pop-up messages for various alerts in the software to notify all active users for quick information.
17	Provision of various reports of generated data in multiple formats (pdf/xls/html).
18	The software must unambiguously provide system generated unique identification number series to the patients and unique registration number series to the donors.
19	Software must follow a defined transfusion chain management path and must not allow by-passing of any steps.
a	Blood collection Chain [Donor Registration → Screening → Medical Examination → Blood Collection(Bag generation, Donation and Donor Card printing) → (TTI Markers, Component Preparation and Blood Grouping) → Stock(only after successful completion of TTI (sero negative)]
b	Transfusion Chain [Patient Blood Request {Patient Requests → Patient grouping cross-matching(in available stock only and matrix compatible) → Issuing → Return to Stock if not transfused}]
B	Specification for various lab modules in Blood Banking Software
1	Donor Registration
a	Registration facility for the donors should be available online and/or registration desk and/or locally installed Kiosks. If registration is made online or on Kiosk, then donor questionnaire must be filled by the user with the facility for taking printouts by oneself or else at the registration desk.
b	Unique Donor registration number that must remain same regardless of donor encounters.
c	Registration of donors at blood bank registration desk capturing with their photograph and various biometric identification and through AADHAR. If donor has done his online/kiosk registration then only biometric identification and photograph to be taken at registration desk to create donor encounter for the donation. Immediate retrieval of data regarding the previous visits of the donor must be available.
d	Provisions of donor self-registration by locally installed self-registration touch screen kiosk; online registration for In-house donation or for a particular scheduled camp or a simple voluntary donor registration must be provided. Unique registration number at registration desk along with a printable barcode must be generated.
e	Unique registration numbers for donors in outdoor camps, in-house, apheresis and blood units from external sources must be separately and unambiguously generated by the software.
2	Donor demographic (screening) and Medical Examination
a	Must have provision of donor questionnaire with demographic details and questions w.r.t. different medical, surgical, drug intake and life style behaviors as per the Drugs and Cosmetics (D&C) Act, 1940 and rules therein as well as recent guidelines.
b	Pre-defined brief medical examination module must be incorporated.
c	Reason of deferral with date and deferral duration for donors must be user definable.
d	Pre-donation counseling module must be provided.
3	Blood donation
a	Modules for the following elements must be incorporated:
b	Bag generation with a unique bag no., provision of segment no. of allotted bag and bag type, generation of bag barcode with collection date etc.
c	Printing of donor card(preferably smart card type)
d	Post donation counselling module.
4	Blood donation camps

a	Separate simplified module for managing the camp related activities must be provided
5	Aphaeresis
a	Separate modules for the aphaeresis procedures along with screening, medical examination. Modules for collection details and post donation counselling remain the same as that in whole blood donation.
6	Transfusion Transmitted Infectious Marker Investigation
a	Single, multiple and interfaced reporting of various infection markers with validation and secondary confirmation for both serology (ELISA and/or Chemiluminescence) and NAT.
7	Blood Grouping
a	Grouping of donors, IPD and OPD patients by specified techniques (example QWALYS, micro-plate, tube etc.)by single, multiple and interfaced reporting and secondary validation facilities must be provided
8	Component Separation, Inventory and issue
a	Single, multiple and bulk component separation modules and issuing of components to patient and/or bulk issue to other organization or a centre must be provided.
b	The software must provide a module for hassle free incorporation of units received in bulk from external sources to the inventory.
9	Blood Requisition
a	Generation of blood/blood component request forms from the wards in a pre-defined format must be made available.
b	The user must have options to choose from a list of options in relation to the urgency, type of components, and special requirements and/or modifications (if any) of required components.
c	With the unique hospital identification number (UHID) of the patient, the software must flash a pop-up message on the screen with the information regarding the Blood group and details of previous history of blood component transfusions. This information must be provided in the printed request form as well.
d	The software must provide the option to approve the generated request forms at the blood bank so as to keep track of the timeline from generation of the forms at the ward to reception of the printed forms at the blood bank.
10	Cross-match
a	Cross-matching of required PRBC and/or whole blood units with available blood stock (matching matrix) must be provided. Module for platelet cross-matching should be there.
b	On entering the UHID of the patient, the software must flash a pop-up message on the screen with the information regarding the Blood group and details of previous Transfusion history of patient.
11	Issue
a	Module for issue of cross-matched blood and/or blood components to patient and bulk issue to centres/ organization must be defined.
b	While issuing, with the UHID of the patient, the software must flash a pop-up message on the screen with the information regarding the Blood group and details of previous history of blood component transfusions.
c	Option for unit discard/bulk discard must be provided
12	Immuno-haematology Investigation
a	Carrying various investigations which come to blood bank and reporting modules as defined by the department must be provided.
b	This includes ICT, DCT, Antibody Screening, antibody identification, titrations for different antibodies (e.g. Anti A, Anti B etc.) etc.
13	Supply Store Module
a	Building stock and inventory for store.

b	Raising of requirement requests from various labs and issuing supply from store.
c	Alert system for define limit stock for store as well as labs.
14	Special modifications of blood components
a	Separate check-boxes must be provide against components to indicate leukodepletion and irradiation,
b	Software must provide modules for special modifications for blood components such as:
i)	paediatric unit preparations with provisions for part issue of units (e.g. 2017B/2000 P1 (70 mL), 2017B/2000 P2 (70 mL), 2017B/2000 P3(70 ml) and
ii)	Intra-uterine transfusions etc.
15	Reports
a	Various reports those are mandatory as per D&C Act and are required on day to day basis in blood bank and a master register as per regulations must be provided.
16	Hardware requirements :
a	The firm must provide one local server for the database and application at the blood bank with provision of automatic real-time syncing facility in a secured cloud service for both application and database at a remote (server) location (in India only) with dynamic DR and automatic failover. Servers must be provided to run the software efficiently.
b	20 All-in-One PCs (Intel core 8th Generation i5 processors, 4GB RAM (DDR 4), 1 TB HDD, Latest Windows 10, 19" LCD/LED, Wireless keyboard and mouse) along with all other required peripherals must be provided.
c	The software must run on 200 nodes/users and the data will be the property of the department.
d	All the licensure required for running the software and hardware must be procured by the firm and the respective costs must be indicated as a part of the tender.
e	Bar-code printers and scanners (10 Nos. each) must be provided.
f	Digital signature pads, Webcams, Biometric scanners and iris scanners (3 Nos. each) must be provided.
g	Up time & penalty for delays in repair & maintenance: the firm will ensure uptime of 365 days in a year during warranty period & CMC period.
h	Whenever there is breakdown the firm will carry out the repair within 24 hours of receipt of such information (either by telephone or by any other means).
i	If there is delay beyond 24 hours then the firm will be penalized at the rate of 1% of the cost of product per day. This financial penalty can be waived off on recommendation of the user dept. if the reasons of delay are genuine the same are recorded & endorsed by the concerned dept.
j	If the down time is exceeded in a year from 20 days then the warranty shall stand extended by double the no. of days machine was out of order.

Item no. 30 (Tender ID: 2019 HLL 37262 30)**Automatic Nucleic Acid Testing System**

1. Donor NAT System must be an automated compact system.
2. Test Assay must be able to detect HIV 1 & 2, HBV and HCV in Donor Nucleic acid testing format in initial screening as well as repeat testing by using Polymerase Chain Reaction (PCR)/ Real Time Polymerase Chain Reaction (RT-PCR)/Transcription Medicated Amplification (TMA) based method.
3. Amplification process must not be inhibited by commonly used anticoagulants in blood bank.
4. System must perform automated nucleic acid target capture or nucleic acid extraction, amplification, and detection all from a single tube to minimize sample handling and any chances of contamination.
5. Multiplex Assay to detect HIV 1 & 2, HBV and HCV in plasma by running Nucleic Acid Amplification Test.
6. Test procedure must be able to target & amplify one-two separate regions of HIV-1 genome.
7. Internal control is added to each specimen in the first step of the assay to ensure assay integrity is maintained throughout the process.
8. The system must have throughput of minimum 300 samples in 8 hours and can be upgradable with addition of test platform units with increase in workload.
9. Test kit must consist of ready-to-use reagents and chemicals necessary for the whole nucleic acid amplification testing procedure. Each kit contain positive and negative calibrators, internal control samples, primers, probes, enzymes, reagent buffers and all other reagents needed for the target capture, amplification and detection of HBV DNA, HCV RNA and HIV RNA.
10. Firm must supply the relevant calibration certificate for the equipment from NABL accredited Lab.
11. The system must offer at least 8 hour calibrator stability at ambient temperature.
12. The system must perform continuous processing of samples and continuous access of result with random access capability.
13. The system must have built-in process controls for sample and results integrity.
14. The system must have full sample traceability with positive sample identification through barcode and manual options.
15. Donor nucleic acid amplification testing procedure must be validated for highest available accuracy and precision of detection of HBV, HCV and HIV 1 & 2 Nucleic acid in donor plasma or serum either through European CE/IVD approved and/or US FDA approved and/or CDSCO, India approved nucleic acid amplification testing method licensed for blood donor screening.
16. Waste capacity of machine must be at least 100 tests.
17. The bidder is required to provide proven data on analytical sensitivity, specificity, reproducibility, repeatability and other relevant parameter of assay performance.
18. Quoted nucleic acid amplification testing machine must have proven installation base in India & must have installations in at least 3 blood banks in India. The service support must be available within Delhi/NCR.
19. The sensitivity of assay at 95% LOD must be at least:
 - (i) HIV: 60 IU/ml or better
 - (ii) HCV: 8 IU/ml or better
 - (iii) HBV: 5 IU/ml or better

20. The specificity of the tests must be >99%
21. The firm must quote the cost of consumables in the form of **cost per sample** and the same shall be included as a part of the financial bid before deciding upon the lowest bidder.
22. Original literature of equipment must be submitted.
23. European CE and/or FDA certification specific for the product must be mandatory.
24. Invalid test results will not be charged by the firm and in such case the firm has to bear the cost of tests and the kits as well.
25. Firm will have to supply the suitable UPS (with voltage stabilizing capability and back up supply for at least 4 hour with full load).
26. Electrical: The equipment must be able to run on the existing electrical provision. Any additional electrical requirement for the equipment must be supplied by the firm.
27. **Turnkey works:**
Any Civil, Electrical, HVAC, internet & telephone related modifications, (if required) for installation of any of the offered item would be the responsibility of the bidder.

Turnkey works of Blood Bank have been executed to a large extent. The bidders are required to visit the site and conduct a detailed assessment with regard to any Civil, Electrical & HVAC changes required in Blood Bank area as per tender requirements. The bidder should quote for turnkey works only for the additional/differential works required in the blood bank area to meet the tender requirements.

Any makes and models given in the tender are to be used by the bidder while executing turnkey works identified after site visit. However, no additional turnkey work should be quoted for, on account of a different make and model already used at the existing Blood Bank site.

Annexure - 1A

REAGENT COST (for bid ranking & fixing of year wise rates)						
		A	Reagent Pack Details			
	List of Parameters	No. of samples (approximate load over 10 years being factored for bid ranking)	Reagent Pack - make/brand	Pack Catalogue No.	No. of samples can be tested/ pack	Total No. of <u>Reagent packs</u> to be used for No. of samples in column "A"
1	NAT	4,00,000				

Annexure - 1B

Consumable cost other than reagents (for bid ranking & fixing of year wise rates)					
Items/ Pack Details					
Sl. No.	Type of Consumable (Bidder may add additional rows)	Details of Tests / Analyzers/ Equipment, etc. the consumable is being used for	Make/brand	Catalogue No.	Total No. of Consumable item/packs to be used for total sample test as detailed in column "A" of Annexure-1A

1	Calibrators				
2	Quality controls				
3	Additives				
4	Cleaners				
	Important Note: Any reagent, consumables & Essential consumables required for performing tests, calibration, quality control, cleaning the lab system, as per quantities detailed in column "A" of Annexure-1A if not quoted shall be provided free of cost by the bidder during the validity of the contract.				

Item no. 31 (Tender ID: 2019 HLL 37262 31)**Fully Automated Random Access Chemiluminescence**

1. The Instrument should be bench top / floor model with castor wheels with locking facility, Random Access Chemiluminescence based with facility of continuous loading of samples.
2. The instrument should have throughput of **at least 80 tests/hr**.
3. The sample carrier should be capable of taking different sizes of tubes for collection of blood and instrument should be capable of automatic sampling from different sizes of tubes.
4. The instrument should be capable of loading minimum of 50 samples at a time with customized on-site priority positions and continuous access for reagent and sample should be possible during run.
5. The system should have liquid, stable, ready to use/ lyophilised (only for HIV) reagents including control, calibrator.
6. The instrument should have the facility of performing following tests -
 - (i) Fourth generation test for HIV 1 and 2 including P24 Ag/Ab (both essential)
 - (ii) Anti HCV
 - (iii) HBsAg
 - (iv) Syphilis.
7. The instrument should have minimum contamination with carryover of as low as 0.1 ppm.
8. The instrument should have a facility of lot calibration, auto loading & unloading of reagents while instrument is in running mode.
9. The instrument should have bar code as well as bi-directional facility.
10. Firm should supply compatible UPS with minimum one hr backup along with the equipment without any extra cost. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.
11. The bidder should also quote separately the running cost of the machine (without any exclusion) and the cost of kits / consumables/ reagents for each quoted test for a period of 10 years.
12. The firm should also supply 500 tests for each TTI markers i.e. fourth generation HIV including P24 Ag/Ab, Anti HCV, HBsAg and Syphilis, without any extra cost along with the equipment.
13. Original literature of equipment and consumables should be submitted.
14. Equipment should be European CE or USFDA certified.
15. **Turnkey works :**

Any Civil, Electrical, HVAC, internet & telephone related modifications, (if required) for installation of any of the offered item would be the responsibility of the bidder.

Turnkey works of Blood Bank have been executed to a large extent. The bidders are required to visit the site and conduct a detailed assessment with regard to any Civil, Electrical & HVAC changes required in Blood Bank area as per tender requirements. The bidder should quote for turnkey works only for the additional/differential works required in the blood bank area to meet the tender requirements.

Any makes and models given in the tender are to be used by the bidder while executing turnkey works identified after site visit. However, no additional turnkey work should be quoted for, on account of a different make and model already used at the existing Blood Bank site.

Annexure - 1A

REAGENT COST (for bid ranking & fixing of year wise rates)						
		A	Reagent Pack Details			
	List of Parameters	No. of tests (approximate load over 10 years being factored for bid ranking)	Reagent Pack - make/ brand	Pack Catalogue No.	No. of tests/ pack	Total No. of <u>Reagent packs</u> to be used for No. of tests in column "A"
1	Screening cost HIV					
	HIV 1 & 2	4,00,000				
2	Screening cost HBsAG					
	HBsAG	4,00,000				
3	Screening cost HCV					
	HCV	4,00,000				
4	Screening cost Syphilis					
	Syphilis	4,00,000				
5	Screening cost Malaria					
	IC Cards for Rapid Testing	4,00,000				

Annexure - 1B

Consumable cost other than reagents (for bid ranking & fixing of year wise rates)					
Items/ Pack Details					
Sl. No.	Type of Consumable (Bidder may add additional rows)	Details of Tests / Analyzers/ Equipment, etc. the consumable is being used for	Make/ brand	Catalogue No.	Total No. of Consumable item/ packs to be used for cumulative no. of tests from serial no. 1 to 10 as detailed in column "A" of Annexure-1A
1	Calibrators				
2	Quality controls				
3	Additives				
4	Cleaners				
Important Note: Any reagent, consumables & Essential consumables required for performing tests, calibration, quality control, cleaning the lab system, as per quantities detailed in column "A" of Annexure-1A if not quoted shall be provided free of cost by the bidder during the validity of the contract.					

Item no. 32 (Tender ID: 2019 HLL 37262 32)**Fully Automated Random Access Immuno-Haematology (IH) Platform**

1. It must be a complete automated walk away system. Must be capable of doing **blood grouping (forward and reverse), AHG cross matching, antibody screening, antibody identification, clinically significant antigen phenotyping (Rh, K), weak D testing** and/ or platelet serology in a completely automated manner with latest model.
2. All necessary requirements for installation and proper functioning should be provided by company along with UPS. The bidder should also quote separately the running cost of the machine (without any exclusion) and the cost of kits/consumables/reagents for each quoted test for a period of 10 years. This will be considered for bid ranking.
3. The platform may be based on principles of SPRCA or EM technology or CAT.
4. All operations should be monitored by appropriate software. The software should be user friendly in operation, complete traceability of tests, samples, results and operators.
5. It should be easy to use and have safety and traceability of the reports.
6. The machine should be compact with inbuilt processor and reader.
7. Should have through-put of 40 or more samples per hour or should be able to do 40 or more Blood Groupings and hundred or more cross matching in one hour.
8. It must have provision for distinguishing red cell from plasma/serum
9. It must have provision for sample clot detection and low volume level notification (at least 0.5 ml of serum).
10. It must have facility for LIS integration of the instrument.
11. Firm will have to supply the UPS with 1 Hr back along with the equipment without any extra cost
12. Original literature of equipment should be submitted.
13. Equipment should have USFDA or European CE certification.
14. Manufacturer should be ISO 9001certified and should have ISO 13485 certification for quality standards. It shall meet IEC-60601-1-2 (Or Equivalent BIS) General Requirements of Safety for Electromagnetic Compatibility.
15. **Turnkey works:**

Any Civil, Electrical, HVAC, internet & telephone related modifications, (if required) for installation of any of the offered item would be the responsibility of the bidder.

Turnkey works of Blood Bank have been executed to a large extent. The bidders are required to visit the site and conduct a detailed assessment with regard to any Civil, Electrical & HVAC changes required in Blood Bank area as per tender requirements. The bidder should quote for turnkey works only for the additional/differential works required in the blood bank area to meet the tender requirements.

Any makes and models given in the tender are to be used by the bidder while executing turnkey works identified after site visit. However, no additional turnkey work should be quoted for, on account of a different make and model already used at the existing Blood Bank site.

Annexure - 1A

REAGENT COST (for bid ranking & fixing of year wise rates)						
		A	Reagent Pack Details			
	List of Parameters	No. of tests (approximate load over 10 years being factored for bid ranking)	Reagent Pack - make/brand	Pack Catalogue No.	No. of tests/pack	Total No. of <u>Reagent packs</u> to be used for No. of tests in column "A"
1	Consumables for Automated IH Platform					
	Blood Grouping (forward and reverse)	500,000				
	AHG cross matching	250,000				
	Antibody Screening	100,000				
	Antibody Identification	100,000				
	Clinically significant antigen phenotyping (Rh)	50,000				
	Clinically significant antigen phenotyping (K)	50,000				
	Weak D testing	50,000				
2	Blood Grouping					
	Anti A	5,00,000				
	Anti B	5,00,000				
	Anti D (IgM)	5,00,000				
	Anti D (IgM+IgG)	5,00,000				
	Anti AB	5,00,000				
	Anti H	1,00,000				
	Anti A1 Lectin	1,00,000				
3	Blood Cross matching					
	AHG Gel cards (IgG + C3d)	5,00,000				
	Gel Cards (IgG only)	1,50,000				
4	Blood Antibody Screening					
	Screen Cells (3 cells)	2,00,000				
	ID Panels (11 Cells)	2,00,000				
	ID Panels (6 Cells)	2,00,000				
	CAT (K)	1,00,000				
	CAT (k/Celino)	50,000				
	CAT (Le ^a)	50,000				
	CAT (Le ^b)	50,000				
	CAT (Duffy a)	50,000				
	CAT (Duffy b)	50,000				
	CAT (Kidd a)	50,000				
	CAT (Kidd b)	50,000				
	CAT (M)	50,000				
	CAT (N)	50,000				
	CAT (S)	50,000				

CAT (s)	50,000				
CAT (C ^w)	50,000				
CAT (P1)	50,000				
Antisera (K)	1,00,000				
Antisera (k/Celino)	50,000				
Antisera (Lea)	50,000				
Antisera (Leb)	50,000				
Antisera (Duffy a)	50,000				
Antisera (Duffy b)	50,000				
Antisera (Kidd a)	50,000				
Antisera (Kidd b)	50,000				
Antisera (M)	50,000				
Antisera (N)	50,000				
Antisera (S)	50,000				
Antisera (s)	50,000				
Antisera (CW)	50,000				
Antisera (P1)	50,000				
Anti-E	2,00,000				
Anti-e	2,00,000				
Anti-C	2,00,000				
Anti-c	2,00,000				
CAT (NaCl Type)	3,00,000				
CAT (Extended DCT)	1,00,000				
Enzymes Papain	1,00,000				
LISS	15,00,000				
Bromelin	5,00,000				
Bovine serum albumin (22%)	50,000				
Glycine	50,000				
EDTA	50,000				
Sulphuric acid	50,000				
HCl	50,000				
Sodium Dihydrogen phosphate	50,000				
DiSodium hydrogen diphosphate	50,000				
PEG	50,000				
Xylene	50,000				
Glacial acetic acid	50,000				
Sodium chloride	50,000				
Potassium chloride	50,000				
Potassium dihydrogen phosphate	50,000				
Buffer capsules (pH variants)	50,000				
pH strips	50,000				
Enzymes Ficin	50,000				
DTT	50,000				
Eosin	5,00,000				
2-mercaptoethanol	50,000				
Formaldehyde	50,000				

	Ammonia	50,000				
	Glycerol	50,000				
	Kit for cold autoantibody removal	50,000				
	Kit for warm autoantibody removal	50,000				

Annexure - 1B

Consumable cost other than reagents (for bid ranking & fixing of year wise rates)					
Items/ Pack Details					
Sl. No.	Type of Consumable (Bidder may add additional rows)	Details of Tests / Analyzers/ Equipment, etc. the consumable is being used for	Make/ brand	Catalogue No.	Total No. of Consumable item/ packs to be used for cumulative no. of tests from serial no. 1 to 10 as detailed in column "A" of Annexure-1A
1	Calibrators				
2	Quality controls				
3	Additives				
4	Cleaners				
<p>Important Note: Any reagent, consumables & Essential consumables required for performing tests, calibration, quality control, cleaning the lab system, as per quantities detailed in column "A" of Annexure-1A if not quoted shall be provided free of cost by the bidder during the validity of the contract.</p>					

Item no. 33 (Tender ID: 2019 HLL 37262 33)**Biological X-Ray based Blood Irradiator**

1. All goods supplied in accordance with the Contract MUST be new and of good construction, sound materially, of adequate strength and free of defects in design materials and workmanship so as to be safe and without risk to health when properly used. If there are manufacturing defects known to the firm, then it MUST identify such defects and state their policy regarding the repair of known defects.
2. Radiation Source should be X-ray based with minimum 1-2 X-ray tubes.
3. The system MUST have X-ray tube output limits up to 160 kV, 26 mA and/or 3 kW.
4. The X-ray tubes should have life span of at least 5 years.
5. It should be able to provide uniform and controlled dose of irradiation to blood and blood products with a central dose of min. 25 Gy and Max. up to 50 Gy at the periphery during the full cycle.
6. Centre dose rate should be between 2.5-5 Gys per min
7. It should have self-contained / external cooling system with or without requirement of external water supply.
8. Canister volume should be able to accommodate a minimum of 3 to 6 blood bags each of 300 ml at a time.
9. The system MUST be self-contained with respect to the irradiation chamber and electronics, and MUST NOT exceed a physical foot print of 1.5 x 1.5 m, height 3 m and weight 1,500 kg.
10. The system may include a positioning function for beam and specimen alignment.
11. The system MUST have software in place requiring operators to login using a designated user ID and password for secured operations.
12. The system MUST have storage facility (on-board) for min. 40,000 components. The system MUST enable user to export the data onto an external storage device for archives.
13. The system should include integrated touch screen panel/controller.
14. The supplier MUST be able to provide software updates, if applicable. All software/hardware upgrades to the system, which become available during the life of the contract, MUST be provided free of charge.
15. The system MUST be accompanied by a calibrated dosimeter, for dose and dose rate measurements within the irradiation chamber. The firm will also have to supply 1000 radiation tags along with any other quality control requirements including dose mapping in every 6 months till the life cycle of the equipment. The rates for the same must be quoted in the tender for 200,000 radiation tags for fixing of rates for 10 years.
16. Firm MUST submit copies of certificates of all relevant testing or compliance certificates (AERB and/or IAEA).
17. The firm MUST provide certificates of satisfaction from 3 institutions of repute (Indian/ International) for similar systems.
18. The system MUST be fully physics commissioned and dose calibrated within the irradiation chamber.
19. The equipment must be able to run on the existing electrical provision. Any additional electrical requirements must be specified by the firm. The installation of all electrical items MUST be in accordance with, but not limited to, the existing guidelines in India.

20. A stabilizer (if required) and UPS (with 30 min power back up) MUST be provided to temporarily power the unit in the event of a power cut.
21. The firm MUST state details of timeline for lead time to installation, commissioning and training.
22. The commissioning of the equipment MUST be successfully carried out by Supplier trained engineers.
23. The firm MUST have dedicated X-ray irradiator specialists at their disposal and fully qualified service personnel who can respond to service calls within the stated response times residing in Delhi/ NCR.
24. The firm MUST provide confirmation of the availability of service and replacement parts & kits for at least 5 years after commissioning.
25. Firms are asked to provide details of a training programme to include but not limited to the following:
 - a. The firm MUST provide on-site training after commissioning, to include use of instrument, system familiarization, operation, dosimeter-based calibration, maintenance and troubleshooting.
 - b. All operators' system manuals, Service and maintenance manuals and any other relevant documentation MUST be supplied in English language.
26. Equipment should be USFDA or European CE certified.

27. **Turnkey works:**

Any Civil, Electrical, HVAC, internet & telephone related modifications, (if required) for installation of any of the offered item would be the responsibility of the bidder.

Turnkey works of Blood Bank have been executed to a large extent. The bidders are required to visit the site and conduct a detailed assessment with regard to any Civil, Electrical & HVAC changes required in Blood Bank area as per tender requirements. The bidder should quote for turnkey works only for the additional/differential works required in the blood bank area to meet the tender requirements.

Any makes and models given in the tender are to be used by the bidder while executing turnkey works identified after site visit. However, no additional turnkey work should be quoted for, on account of a different make and model already used at the existing Blood Bank site.

Item no. 34 (Tender ID: 2019_HLL_37262_34)

Mobile Blood Donation Van

1. The bidder must submit detailed designs and plans in line with the specified requirements.
2. The net interior dimensions of MBDV body (blood collection area excluding the driver cabin) shall be min. 2000 mm. in width, 2000 mm. in height and min. 9500 mm. in length.

3. BASE VEHICLE:

- i. It should be of Central Motor Vehicle Rules (CMVR) approved 'M' Category bus chassis with Original Equipment Manufacturer (OEM) approved fabricated driver compartment.
- ii. The design of the vehicle and the specified requirements shall permit accessibility for servicing/ replacement and adjustment of components/ parts and accessories, with minimum disturbance to other components and systems and optimum safety and comfort of occupants.
- iii. The base vehicle with all accessories should be brand new (non-re-furbished) standard commercial products, tested and certified to meet the requirements. The bidder should enclose all necessary brochures, certifications and proofs in this regard along with the bid.
- iv. The base vehicle should fully comply with all requirements of CMVR (as per the latest amended applicable on the date of submission of bid). A copy of the certificate to this effect should be enclosed with the technical bid.
- v. The base vehicle should be able to accommodate the Mobile Blood Donation Van without violating any of the statutory requirements of the CMVR including the rear overhang and side extensions beyond the width of the vehicle as well as the safety requirements like rear view mirror positions with the complete width of the Mobile Blood Donation Van (MBDV) loaded onto the chassis.
- vi. The vehicle should have >150 HP,4/6-cylinder diesel/ electric engine (Volvo Eicher/ Bharat Benz/ Tata/ Ashok Leyland/ Equivalent), 6 speed manual transmission, power assisted steering, Fuel tank of capacity > 300 litres, Leaf/ Air front suspensions, Rear Air suspensions, all CAM/ disc brakes and the driver cabin should be air conditioned with OEM fitted engine driven air conditioning system. The vehicle should comply with BS IV or above emission standard(s).

4. MBDV COMPARTMENT:

The following compartments are to be made in the MBDV:

- a. Driver Compartment
- b. Registration cum Storage compartment for phlebotomy related articles
- c. Donation compartment
 - (i) Donation Area (6 Couches)
 - (ii) Sampling, Blood storage area
 - (iii) Refreshment Area

- (iv) Biomedical Waste Area
- d. Underneath Dickey for Storage, Electrical equipment, Generators, UPS, etc.

5. Inter-frame Work

- i. Inter-framework should be made of minimum 1.5 mm thick steel (Stainless or mild) and/or aluminium.
- ii. The inter-frame work should be connected to the chassis frame in such a manner as to prevent any shifting and separation under extreme operating conditions.
- iii. Inter-framework should be designed to support the MBDV body rigidly and withstand tensional loads under full dynamic conditions.

6. Body

- i. The body should be made from sandwich construction bolted to inter-framework, which shall be connected to the chassis.
- ii. The walls should be made up of joint less sandwich elements with
 - a. Outer and Inner Skin: Minimum 1.5 mm thick, white dyed Glass fibrelaminate or Aluminium sheet.
 - b. CFC free, high performance, rigid Polyurethane block foam, 30-50 mm thick.
- iii. The walls and floor should be connected using one piece aluminium, powder coated and joined together with polyurethane adhesive and sealant to provide extreme torsion strength to the walls and floor.

7. Floor

- i. The top layer of the floor should be water proof and top layer must be made from minimum 1.5 mm. thick Anti-skidPVC vinylmatting or equivalent.
- ii. The rear wheel must be covered with 1 mm thick PPGI sheet for extra protection and durability.
- iii. The floor should withstand a distributed load of minimum 150-250Kg/m².
- iv. The floor should be completely free from any openings to access any parts of engine or chassis parts and to facilitate easy cleaning.

8. Roof

- i. The construction of the roof should be the same as those of the body walls as specified above but must be with additional reinforcement for mounting air conditioning unit, ceiling lamps and other devices.
- ii. All the cables and conduits in the ceiling should be completely concealed in its manufacturing and should not be visible either on the inside surface or on the outside surface of the ceiling.

9. Entrance Door

- i. There should be 2 entrance doors (Front & Back) on the left side of the MBDV.
- ii. The doors should be minimum single leaf door.
- iii. The door should be designed as to afford easy release and prevent accidental opening.
- iv. The door should permit loading and unloading of the stretcher.
- v. It should have effective compression or overlapping seals to prevent leakage.
- vi. It should be minimum 180 degree revolving outward opening and laterally supported by rust resistant high-grade stainless-steel hinges.

- vii. The door hinges should be completely concealed in construction so that when the door is closed it is not possible to open the fastening hinges from any direction with any tool.
- viii. The door should have flush pull latch lock to allow operation from inside.
- ix. The door should be provided with a retractable handle to open it from outside. On releasing the handle, it should be flushed with the outer surface of the door.

10. Window

- i. It should have 2 windows with sliding glasses, at the driver and co-driver positions.
- ii. The donation compartment must have glass windows (fixed) made of toughened glass (without any sharp edges) on each side, with retractable rolling curtains.

11. Seats

- i. The MBDV area will have automotive transport grade aesthetically pleasing and ergonomically designed seats for min. 8 persons.
- ii. The seats should be comfortable, with complete back support, and a retractable or foldable writing board attached to the side wall of the compartment.
- iii. The backrest should have integrated/ detachable head rest. The seats should have retractable/ foldable armrest.
- iv. Padding should be furnished with polyester urethane foam.
- v. The upholstery should be of vinyl / polyurethanes / leatherette.
- vi. The padding and upholstery should be fire retarded, non-absorbent, cleanable and impervious to disinfectants.

12. Interior Storage Compartments & Furniture

- i. Storage compartments should be furnished to accommodate essential equipment / accessories / consumables as required in the van.
- ii. All storage compartments shall be aesthetically and ergonomically well designed.
- iii. To preclude injury in the event of an accident all cabinet shall be firmly anchored to the base structure of the MBDV.
- iv. Storage compartments shall be further furnished to accommodate the equipment for optimum space utilisation.
- v. Any vertical flap in the furniture console opening towards top/ bottom side shall be latched at its fully open position using adequate capacity roller / friction/ pneumatic supports at both ends to ensure proper load distribution of the flap.
- vi. A vertical storage rack (**Stainless steel, Mild steel, Aluminium Alloy or equivalent**) with 3-4 racks must be placed securely at the back of the bus for storing cello boxes of 22-25 litres (Weight bearing capacity of approximately 50 Kg). Suitable fastening belts or a suitable system must be in place to keep the boxes securely while the vehicle is in transit.

13. AC System

- i. The MBDV must be provided with a transport grade, engine-driven, split air conditioning system (Autoclima/ Eberspächer/ Subros/ Sidwals/ Equivalent) of minimum 6 KW with matching condenser capacity for the driver cabin and seating area.

- ii. There should be a separate air conditioning system for the blood collection area. This system (Autoclima/ Eberspaecher/ Subros/Sidwals/ Equivalent) should be minimum 9 KW cooling capacity with matching compressor and roof mounted condenser. The cooling system should be operated with a stand-alone petrol generator provided with the MBDV.
- iii. There should be provision of AC ducting at all the donor couches and registration desk.
- iv. All hoses shall be machine crimped to avoid the leakages.

14. Wiring

- i. All wires shall be concealed (channels to be provided in the walls), color coded, with defined service points so that they can be readily inspected and renewed without affecting the finish of the vehicle.
- ii. The wires shall be PVC insulated wires confirming to BIS specification and enough size to carry the required load without excessive voltage drop.
- iii. Wires shall be of enough length to provide a loop at terminals so as to permit ample slack for directional positioning. The length shall allow replacement of end terminals twice, without pulling, stretching or replacing the wire.
- iv. All terminals and connectors exposed to the ambient must be corrosion resistant.

15. Electrical Distribution Points& Lighting

- i. There shall be adequate number of lighting elements with seamless construction and installed in a flushed manner in the roof of the van.
- ii. All the lights should be operated on 12V DC and/or 220 V AC.
- iii. There should be one 12V DC operated and minimum 6-inch wall mounted fans for each collection couch.
- iv. The donation compartment should have minimum 3 numbers of power sockets at each donor station for various blood collection and general equipment in the MBDV.

16. Power Supply & Management Solution

- i. The MBDV shall be supplied with a petrol generator of min. 7 KVA placed underneath on a trolley support to easily pull out and in, during fueling and with suitable muffling/ canopy system to reduce the noise.
- ii. The generator will be used to run all electrical items of the vehicle including air conditions, room lighting, medical equipment with pure sine wave output.
- iii. The system must also include an adequate UPS battery backup with inverter (min. 5 KVA) ensuring at least 30 minutes of power back up for all essential devices including the donor couch & blood storing refrigerator but excluding the air conditioning system in case of no generator power output.
- iv. There must be an external charging socket for connecting the van to an ext. power grid.
- v. The scope of supply must include a minimum 30 mtrs. long connecting cable with matching adapters at both ends.

17. Service Area

- i. The service area (in dickey underneath) should accommodate the generator, control systems, battery and other general as well as special utility devices,

which are necessary for running the MBDV but can be segregated separately as service utilities.

18. Staircase

- i. The side entrance door for the MBDV will have a foldable/ retractable stair case with non-slippery steps.
- ii. The staircase should be easy to handle while opening and closing.
- iii. The staircase must have locks to keep it in folded condition when not in use and fully protected from any accidental opening when the MBDV is in motion.

19. Security Surveillance, GPS and LED TV Display

- i. The firm must provide 4 roof mounted surveillance CCTV cameras (Full HD 1020p) placed strategically in the Driver Area, Front and Rear part of Donation Area and Front and Rear part of vehicle on outside along with the required DVR and storage facility for recordings of up to 24 hrs.
- ii. The firm must provide an on-board GPS navigation system.
- iii. The firm must provide 3 LED displays (Full HD, 1020p, 32 Inch, Make: Sony/ LG /Samsung/ Panasonic) for entertainment of the donors, in the donation compartment and for public awareness outside the vehicle in such a way so as not to violate any statutory requirements.

20. Emergency equipment-Fire Extinguisher

- i. The MBDV should have 3 standard fire extinguishers (Driver, Registration and Donation areas) of 1-2 Kg capacity each.
- ii. The fire extinguisher should be secured in an extinguisher manufacturer bracket of automotive type and located in full view and in an accessible place.
- iii. They must bear a label of ISI / CE / UL / NFPA showing a rating of ABC.

21. Awning

- i. There must be 2 sturdy and retractable awning with suitable lightweight white-coated aluminium structure one on the driver side and one on the co-driver side.
- ii. The awning shall be motorised in operation based on 12V DC allowing one touch operation for opening and closing of the awnings.
- iii. The awning must have manual override in case of any fault with motor operation.
- iv. Fabric shall be Vinyl, UV resistant, waterproof and washable.
- v. Dimensions: Breadth = 500 ± 100 cm. Expansion length = 200 ± 100 cm.

22. Miscellaneous:

Sr. No.	The firm must provide the following	The firm must provide dedicated storage spaces for the following
1	Sun visor for driver seat,	<ul style="list-style-type: none"> • Gloves • Latex-Free Tourniquet • Antiseptics • Disinfectants • Hand Sanitiser
2	Mud flaps,	
3	Wipers,	
4	First Aid Box,	
5	Public Address System,	
6	LED display panel on front and rear	

	side with Display message customisable as per requirement,	<ul style="list-style-type: none"> • Gauze Pads/Cotton Balls • Bandages • Needles • Vacutainers • Syringes • Anticoagulants • Hand Sanitiser Stand: Donation area (4 Nos.) and Registration area (1 No.). • Wall Mounted Digital Clock
7	Sticker and Branding work as per requirement of the end-user.	
8	Quotations for Registration and Insurance for the entire MBDV (On-road price)	
9	3 Dustbins slots (Steel or Aluminium), with colour coded ABS plastic closed lid containers (Red, Yellow, Black) which are firmly supported in the rear part of MBDV to hold at least 50 litre capacity BMW poly bags.	

23. Equipment Specifications (All mentioned equipment must be from an ISO-13485 certified manufacturer).

1. BLOOD DONOR COUCH (6 nos.) (Suggestive Make: Fresenius, Terumo Penpol)

- a. Variable positioning for arm rests should have swinging out as well as up and down moving facility.
- b. Reclining and upright body positions with a smooth shifting to any position.
- c. Comfortable chair type with or without separate section for backrest.
- d. Should be a single upholstery unit with soft padding for cushioning and rexine cover.
- e. It should have step less electric remote-controlled backrest & leg rest adjustment.
- f. Adjustable arm rest for donor's comfort and phlebotomist friendly
- g. Easily tilted to head low position, electrically operated.
- h. Weight bearing capacity - Approx. 150 kg.
- i. Storage Drawers/trays and back side pouches for storing consumables & Blood Collection Monitors.
- j. Should have provision to fix on mobile collection van on base with support clamps.

2. BLOOD COLLECTION MONITOR (6 nos.) (Suggestive Make: Fresenius, Terumo Penpol, Macopharma)

- a. Volume Setting: Pre-selection of volume to be collected. Tarring of bag volume before collection. Tarring range: 0 to 600 gm (50-500 ml). Easy provision to change preset volume.
- b. Automatic storage and recall of set volume. Measure volume with best accuracy.
- c. Indications and Alarms for Commencement & end of collection, time taken for collection, blood flow rate with audio alarm, Main power failure.
- d. Should have continuous notification of completed collection including gentle mixing to avoid coagulation.
- e. Automatic clamping at termination of preset volume collection.
- f. Continuous agitation of blood bags during collection: 12±2 rpm.
- g. Should operate on mains as well as battery. On battery it should operate for a min. of 8 hours or minimum 60 continuous blood collections.

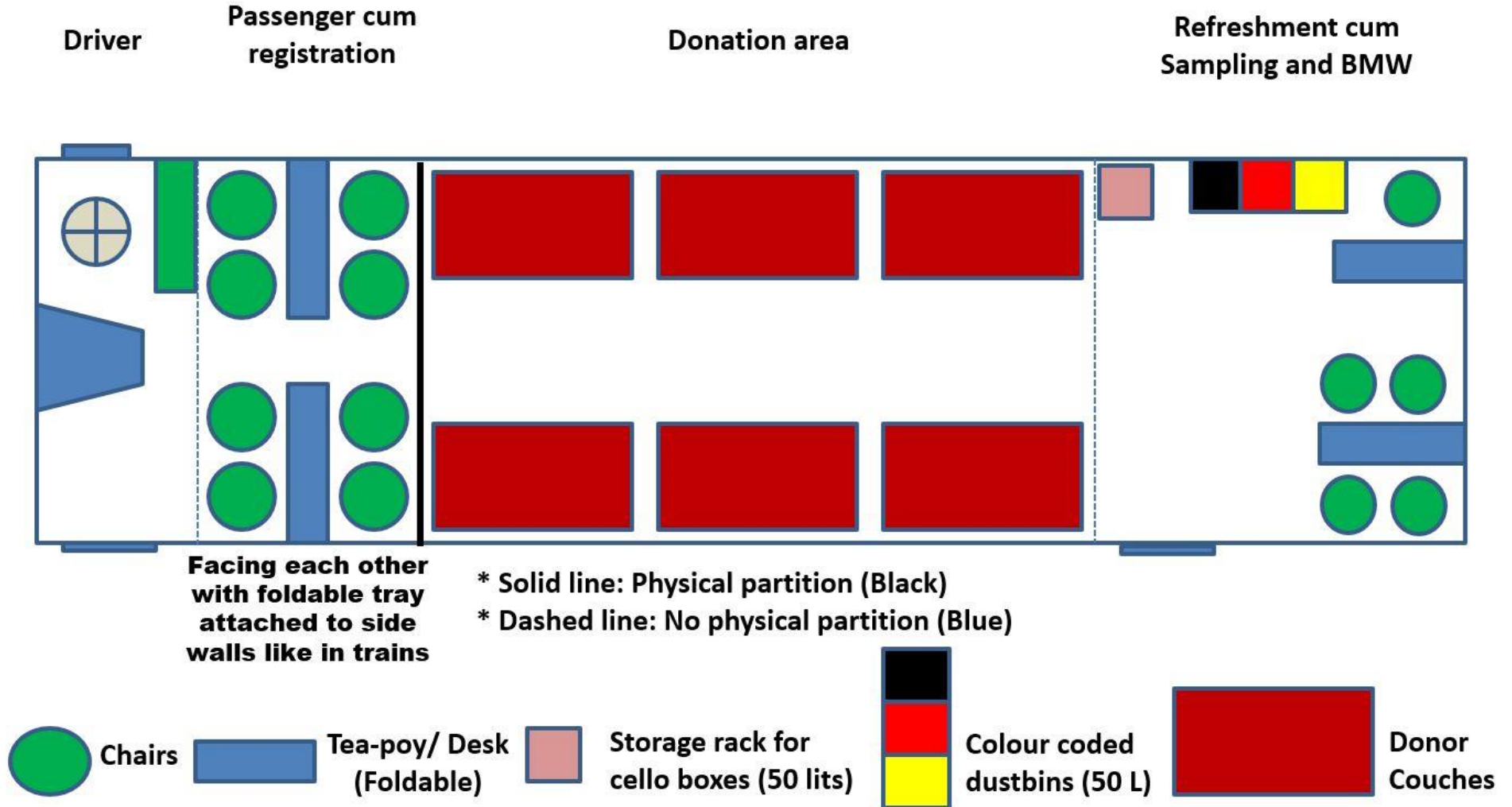
3. TUBE SEALER (1no.) (Suggestive Make: Fresenius, Terumo Penpol)

- a. It should be radio frequency hermetic sealing with no requirement of warm-up time.
- b. Sealing time: Less than 2 sec.
- c. It should have sealing gun along with coaxial cable length at least 2 mtrs.

4. WEIGHING SCALE/ STADIOMETER (1no.)

- a. Digital or Analog scale – 1 no. (Ranges: Weight: 40-150 Kgs. and Height: up to 6.5 ft)

Tentative Schematic Layout of the Mobile Blood Donation Van (not as per scale)



B. GENERAL POINTS:**1. Warranty:**

- a) The bidders must quote for Comprehensive Warranty as per Conditions of Contract of the bidding document for complete equipment (Including all spares, labour and third party items) and Turnkey Work (if required) from the date of satisfactory installation, commissioning, trial run, handing over and acceptance of the goods by the User Department.
- b) The warranty charges shall not be quoted separately.
- c) All software and hardware updates should be provided free of cost during Comprehensive Warranty period.
- d) During the Warranty period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime more than 5%, the warranty period/CAMC period will be extended by double the downtime period. Complaints should be attended properly, maximum within 8 hrs.

2. After Sales Service:

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

3. Training:

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

4. Comprehensive Annual Maintenance Contract (CAMC) of subject equipment:

- a) The cost of Comprehensive Annual Maintenance Contract (CAMC) which shall include preventive maintenance including testing & calibration as per technical/service/operational manual of the manufacturer, labour and all spares, after satisfactory completion of Warranty period may be quoted for next five years on yearly basis for complete equipment including third party items as per Price Schedule.
- b) The cost of CAMC may be quoted along with GST applicable on the date of Bid Opening.
- c) Cost of CAMC will be added for Ranking/Evaluation purpose on NPB basis.
- d) Before commencement of CAMC period, the suppliers shall furnish a Performance Bank Guarantee for 2.5% of the cost of the equipment (as per Performa given in bidding document) valid till 3 months extra after expiry of entire CAMC period. The Performance Bank Guarantee for CAMC will be applicable in case of equipment cost is more than Rs.10 lakh.
- e) All **software/hardware** updates should be provided free of cost during CAMC. In case of failure by the supplier, the Bank Guarantee of CAMC will be forfeited.
- f) The payment of CAMC will be made on half yearly basis after satisfactory completion of said period duly certified by end User.

- g) During the CAMC period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime more than 5%, the warranty period/CAMC period will be extended by double the downtime period. Complaints should be attended properly, maximum within 8 hrs.

5. Uptime & Downtime Penalty Clause:

- a) The firm should provide uptime guarantee of 95% during warranty period and CAMC period.
- b) During the Warranty period and CAMC period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime more than 5%, the warranty period/CAMC period will be extended by double the downtime period. Complaints should be attended properly, maximum within 8 hrs.

6. Turnkey Work:

Turnkey Work is to be indicated in the Technical Specification wherever required. The Bidder shall examine the existing site where the equipment is to be installed, in consultation with User Department. The Bidders are required to quote separately for the equipment and Turnkey Work as per Price Schedule. The Turnkey Work costs may be quoted in Indian Rupee and the same will be added for Ranking Purpose.

The Turnkey Work should completely comply with AERB requirement, wherever required.

SECTION - VIII

QUALIFICATION CRITERIA

- (i) The bidders must be a manufacturer. In case the manufacturer does not quote directly, they may authorise an agent as per proforma of “Manufacturer Authorization Form” as given in the bidding document at **Section XIII** to quote and enter into a contractual obligation.
- (ii) The Bidder should have supplied and installed **100% of the tendered quantity** in the past 7 (Seven) years prior to closing of bid submission, similar equipment meeting major parameters of technical specification which is functioning satisfactorily.
- (iii) In support of 2, the Bidder shall furnish Performance statement in the enclosed Proforma ‘A’. The Bidder shall furnish Satisfactory Performance Certificate, issued by end user, in respect of above, duly translated in English and duly signed along with the bid.
- (iv) The Purchaser reserves the right to ask for a free demonstration of the quoted equipment after giving reasonable time to the bidder at a pre-determined place acceptable to the purchaser or at site (in case of non-portable and heavy equipment) for technical acceptability as per the bidding document specifications, before the opening of the Price Bid.

PROFORMA 'A'**PROFORMA FOR PERFORMANCE STATEMENT**
(For the period of last seven years, as applicable)

TE No. : _____

Date of Bid Opening : _____

Name and address of the Bidder : _____

Name and address of the Manufacturer : _____

Order placed by (full address)	Order no. and date ##	Description (Model no.) and quantity	Value of order (Rs.)	Consignee	Date of Delivery Period			Have the goods been functioning satisfactorily (attach documentary proof)**
					Contract	Actual	Reasons for Delay if Any	
1	2	3	4	5	6	7	8	9

We hereby certify that the details of all orders received in last 7 years, as applicable, of quoted equipment (including AIIMS, PGIMER, JIPMER, RML Hospital, Safdarjung Hospital, Institute of National importance) has been furnished. We hereby further certify that if at any time, information furnished by us is proved to be false or incorrect; we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the Bid Security.

Name _____

Business Address _____

Signature of Bidder _____

Place: _____

Seal of the Bidder _____

** The documentary proof will be a latest certificate from the consignee/end user with cross-reference of order no. and date

The bidders are requested to submit the purchase order copies for the specific model quoted along with the Techno-commercial Bid.

SECTION – IX

BID FORM

To
CEO
HLL Infra Tech Services Limited
B-14A, Sector-62
Noida – 201 307

Ref. Your TE No. _____ due for opening on _____

We, the undersigned have examined the above mentioned bidding document, including amendment/corrigendum (*if any*), the receipt of which is hereby confirmed. We now offer to supply and deliver _____ in conformity with your above referred document for the sum as shown in the Price Schedules attached herewith and made part of this bid. If our bid is accepted, we undertake to supply the goods and perform the services as mentioned in the bidding documents, in accordance with the delivery schedule specified in the List of Requirements.

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

We agree to keep our bid valid for acceptance as required in the “General Instruction to Bidders”, read with modification, if any in “Special Instructions to Bidders”, Section – III or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this bid up to the aforesaid period and this bid may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this bid 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 bid you may receive against your above-referred advertised tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Central Govt. Ministries/Departments/Hospitals/Institutes.

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

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

Name_____

Business Address_____

Place: _____

Signature of Bidder_____

Date: _____

Seal of the Bidder_____

SECTION - X
PRICE SCHEDULE

Price to be filled in the relevant field strictly as per the Price Bid Format provided in the e-tender portal '<https://etenders.gov.in/eprocure/app>' under the Tender ID as per terms of the tender enquiry.

SECTION - XI**CHECK LIST**

The bidders should furnish specific answers to all the questions/issues mentioned in the Checklist detailed below:

Name of Bidder: _____

Name of Manufacturer: _____

Sl. No.	Activity	Yes/ No/ NA	Page No. of the Bids submitted	Remarks
1. a.	Have you enclosed Bid Security of required amount for the quoted schedules?			
b.	In case Bid Security is furnished in the form of Bank Guarantee, has it been furnished as per standard format of the bidding document?			
c.	In case Bank Guarantee is furnished, have you kept its validity 45 days beyond the validity of Techno Commercial Bid?			
2.a.	Are you exempted for furnishing bid security being MSE as defined in MSE procurement policy issued by department of MSME.			
b.	If yes, have you enclosed certificate of registration issued by department of MSME.			
c.	Does such certificate clearly mention the quoted item?			
3. a.	Have you enclosed duly filled bid form as per bidding document?			
b.	Have you enclosed Power of Attorney in favour of the signatory?			
4. a.	Have you enclosed clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications?			
b.	In case of Technical deviations in the compliance statement, have you identified and marked the deviations?			
5. a.	Have you submitted satisfactory performance certificate as per the Proforma for performance statement given in the bidding document?			
b.	Have you submitted the documentary proof that goods have been functioning Satisfactorily?			
c.	Have you submitted latest purchase order copies?			

Sl. No.	Activity	Yes/ No/ NA	Page No. of the Bids submitted	Remarks
6.	Have you submitted Manufacturer's Authorization Certificate as per bidding document?			
7.a.	Have you quoted prices of goods, turnkey (if any), CAMC etc. in the Price Schedule as per bidding document?			
b.	If the ATE calls for buy back, have you quoted buy back prices along with applicable GST?			
8.	Have you kept validity of 270 days from the Techno Commercial Bid Opening date as per the bidding document?			
9. a.	In case of Indian Bidder, have you furnished GST No.?			
b.	In case of Foreign Bidder, have you furnished GST No. of your Indian Agent?			
10.	Have you intimated the name and full address of your Banker (s) along with your Account Number, IFSC Code etc.?			
11.	Have you furnished documents establishing your eligibility & qualification criteria as per bidding documents?			
12.	Have you accepted all the terms and conditions of this bidding document?			
13.	Have you submitted the duly signed copy of Integrity pact (at Appendix-A) on non-judicial stamp paper?			

N.B.

- All pages of the Bid should be page numbered and indexed.
- The Bidder may go through the checklist and ensure that all the documents/ confirmations listed above are enclosed in the bid and no column is left blank. If any column is not applicable, it may be filled up as NA.
- It is the responsibility of bidder to go through the bidding document to ensure furnishing all required documents in addition to above, if any.
- Wherever necessary and applicable, the bidders shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.
- In case a bidders furnishes a wrong or evasive answer against any of the question/issues mentioned in the Checklist, its bids will be liable to be ignored.

Name _____

Business Address _____

Place: _____

Signature of Bidder _____

Date: _____

Seal of the Bidder _____

SECTION – XII

BANK GUARANTEE FORM FOR BID SECURITY

Whereas _____ (Name and address of the Bidder)
(Hereinafter called the "Bidders")
Has submitted its Bid dated _____ for the supply of _____
(Hereinafter called the "Bid")
Against the purchaser's ATE No. _____

Know all persons by these presents that we _____ having
our registered office at _____
(Hereinafter called the "Bank")
Are bound unto HLL Infra Tech Services Ltd., Noida (for and on behalf of AIIMS)
(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 Bidder withdraws or amends, impairs or derogates from the bid in any respect within the period of validity of this Bid.
- 2) If the Bidder having been notified of the acceptance of his Bid by the Purchaser during the period of its validity:-
 - a. if the bidder fails or refuses to furnish the performance security for the due performance of the contract or
 - b. if the bidder fails or refuses to accept/execute the contract or
 - c. if it comes to notice at any time, that the information/documents furnished in its Bid are false or incorrect or 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 more the three conditions, specifying the occurred condition(s).

This guarantee will remain in force upto _____ (insert date of additional forty-five days after Bid validity) and any demand in respect thereof should reach the Bank not later than the above date.

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

SECTION XIII

MANUFACTURER'S AUTHORISATION FORM

The CEO
HLL Infra Tech Services Limited
B-14A Sector-62
Noida, Uttar Pradesh-201307

Dear Sir,

Ref: Your TE document No _____ dated _____

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

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

We further confirm that no supplier or firm or individual other than Messrs. _____ (*name and address of the above agent*) is authorised to submit a bid, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

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

We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorized agent and the spares for the equipment shall be available for at least 10 years from the date of supply of equipment.

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

Yours faithfully,

[Signature with date, name and designation]
for and on behalf of Messrs _____
[Name & address of the manufacturers]

Note:

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

SECTION – XIV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/CAMC SECURITY

WHEREAS _____ (Name and address of the supplier) (Hereinafter called “the supplier”)

has undertaken, in pursuance of Purchase Order/ Contract no _____ dated _____ to supply _____ (*insert description of goods and services*) (Hereinafter 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 recognized 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 _____ (*insert 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 will remain in force upto _____ (*insert date of additional Ninety days after completion of satisfactorily warranty period in case of Performance Security and additional Ninety days after completion of satisfactorily CAMC period in case of CAMC security*) 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 - XV**CONTRACT FORM - A****CONTRACT FORM FOR SUPPLY, INSTALLATION, COMMISSIONING, HANDING OVER, TRIAL RUN, TRAINING OF OPERATORS & WARRANTY OF GOODS****ALL INDIA INSTITUTE OF MEDICAL SCIENCES***(Insert Name of concerned Centre/Hospital/Department/Section)***ANSARI NAGAR, NEW DELHI-110 029**

Contract No _____ dated _____

To _____

*(insert name of Supplier with address)***This is in continuation to this office's Notification of Award No _____ dated _____**

1. Name & address of the Supplier: _____
2. ATE No of Bidding Documents: _____ and subsequent Amendment No _____, dated _____ (if any), issued by the Purchaser
3. Supplier's Bid No _____ dated _____ and subsequent communication(s) No _____ dated _____ (if any), exchanged between the supplier and the purchaser in connection with this Bidding Document.
4. In addition to this Contract Form, the following documents etc, which are included in the Bidding Documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:
 - (i) General Conditions of Contract;
 - (ii) Special Conditions of Contract;
 - (iii) List of Requirements;
 - (iv) Technical Specifications;
 - (v) Quality Control Requirements;
 - (vi) Bid Form furnished by the supplier;
 - (vii) Price Schedule(s) furnished by the supplier in its Bid;
 - (viii) Manufacturers' Authorisation Form (if applicable);
 - (ix) Purchaser's Notification of Award

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

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

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

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

- (ii) Delivery schedule: _____
- (iii) Details of Performance Security required: _____
- (v) Destination and despatch instructions: _____
- (vi) Consignee: _____

6. Warranty clause:

7. Payment terms:

(Signature, name and designation of the Purchaser authorised official)
For and on behalf of Director, AIIMS

Received and accepted this contract

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

For and on behalf of _____
(Insert Name and address of the supplier)

(Seal of the Supplier)

Date: _____

Place: _____

CONTRACT FORM – B**CONTRACT FORM FOR COMPREHENSIVE ANNUAL MAINTENANCE
CONTRACT (CAMC)**

Comprehensive Annual Maintenance Contract No. _____
Dated _____

Between

Director, AIIMS

And

(insert Name & Address of the Supplier)

Reference: Contract/ Purchase Order No _____ dated _____ for supply, installation & commissioning, Training and CAMC of goods & services.

In continuation to the above referred Contract/Purchase Order, the Contract of Comprehensive Annual Maintenance Contract is hereby concluded as under: -

1	2	3	4					5	6
Items Sr. No./ RFx no.	Brief descriptio n of goods	Quantity (Nos.)	CAMC Cost for Each Unit year wise in Rs					GST Value in Rs (___ %)	Total CAMC Cost for 5 Years with GST (3) $X[(4a+4b+4c+4d+4e)$ + (5)]
			1 st	2 nd	3 rd	4 th	5 th		
			a	b	c	d	e		

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

- b) The CAMC commence from the date of expiry of all obligations under Warranty i.e. from _____ (date of expiry of Warranty) and will expire on _____ (date of expiry of CAMC)
- c) The cost of Comprehensive Annual Maintenance Contract (CAMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period as contained in the above referred contract on yearly basis for complete equipment as per contract including Turnkey Work(if any).
- d) There will be 95% uptime warranty during CAMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CAMC period by double the downtime period and other penalty as per contract.
- e) During CAMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/technical/operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 3 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
- f) All software and hardware updates should be provided without any extra cost during CAMC period.

- g) The Bank Guarantee valid till _____ [(fill the date) 3 months after expiry of entire CAMC period] for an amount of Rs. _____ [(fill amount) equivalent to 2.5% of the cost of the equipment as per contract] shall be furnished in the prescribed format given in Section XIV of the Bidding Document, along with the signed copy of CAMC within a period of 21 (twenty one) days of start of CAMC failing which the Performance Security (10% of the contract value) submitted shall be en-cashed payable to the Purchaser/Consignee.
- h) If there is any lapse in the performance of the CAMC as per contract, the proceeds Annual CAMC Bank Guarantee shall be forfeited and their bad performance will be considered while awarding future contracts.
- i) Payment terms: The payment of CAMC will be made against the bills raised by the supplier on six monthly basis after satisfactory completion of said period, duly certified by the concerned User Department. The payment will be made in Indian Rupees.

(Signature, name and designation of the Store Officer/ASO of the Purchaser)

(Signature, name and designation of the F&CAO of the Purchaser)
For and on behalf of Director, AIIMS

(Seal of the Purchaser)
Date: _____
Place: _____

Received and accepted this contract

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

For and on behalf of _____
(Insert Name and address of the supplier)

(Seal of the Supplier)
Date: _____
Place: _____

Note:- The contract will be prepared on Non-judicial Stamp paper(currently of value of Rs. 100).

SECTION – XVI

CONSIGNEE RECEIPT CERTIFICATE

(To be given by consignee's authorized representative)

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

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

SECTION - XVII

CONSIGNEE ACCEPTANCE CERTIFICATE

(To be given by consignee's authorized representative)

This is to certify that the goods as detailed below have been received in good conditions along with all the standard and special accessories in accordance with the contract. The same has been installed and accepted.

- 1) Contract/Purchase Order No. & date:_____
- 2) Supplier's Name:_____
- 3) Consignee's Name & Address: _____
- 4) Name of the item Supplied :_____
- 5) Quantity Supplied :_____
- 6) Date of Receipt by the Consignee :_____
- 7) Date of Installation/Commissioning and Acceptance of Equipment: _____
- 8) The supplier has fulfilled its contractual obligations satisfactorily

OR

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

- i)
- ii)
- iii)
- iv)
- 9) The amount of recovery on account of failure of the supplier to meet his contractual obligations is_____ (here indicate the amount).
- 10) Signature of Authorized Representative of Consignee with date:_____
- 11) Name and designation of Authorized Representative of Consignee:_____
- 12) Seal of the Consignee:_____

APPENDIX-A

INTEGRITY PACT

PRE-CONTRACT INTEGRITY PACT

This Pre-Contract Integrity Pact (herein after called the Integrity Pact) is made on _____ day of the month of _____ Year _____

Between

HLL Infra Tech Services Ltd. [HITES], a wholly owned subsidiary company of M/s. HLL Lifecare Ltd. a Government of India Enterprise with registered office at HLL Bhavan, Poojappura, Thiruvananthapuram 695 012, Kerala, India. (Hereinafter called "HITES", which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Party.

And

M/s. _____, with office at _____ represented by Shri _____, _____ (*Designation*) (hereinafter called the "BIDDER/Seller"/Contractor which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Party.

Preamble

[Both HITES and BIDDER referred above are jointly referred to as the Parties]

HITES intends to award, under laid down organizational procedures, Purchase orders / contract/s against Tender /Work Order /Purchase Order No. HITES desires full compliance with all relevant laws and regulations, and the principles of economic use of resources, and of fairness and transparency in its relations with its Bidder/s and Contractor/s.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence/prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:-

1. Enable HITES to obtain the desired materials/ stores/equipment/ work/ project done at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement; and
2. Enable the BIDDER to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and HITES will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

Clause.1. Commitments of HITES

- 1.1 HITES undertakes that HITES and/or its Associates (i.e. employees, agents, consultants, advisors, etc.) will not demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favour or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
- 1.2 HITES will, during the tender process / pre-contract stage, treat all BIDDERS with equity and reason, and will provide to all BIDDERS the same information and will not provide any such information or additional information, which is confidential in any manner, to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS in relation to tendering process or during the contract execution.
- 1.3 All the officials of HITES regarding this Integrity Pact will report to IEM, any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach shall not be permitted.
- 1.4 HITES will exclude from the process all known prejudiced persons and persons who would be known to have a connection or nexus with the prospective bidder.
- 1.5 If the BIDDER reports to HITES with full and verifiable facts any misconduct on the part of HITES's Associates (i.e. employees, agents, consultants, advisors, etc.) and the same is prima facie found to be correct by HITES, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings may be initiated by HITES. Further, such an Associate may be debarred from further dealings related to the contract process. In such a case, while an enquiry is being conducted by HITES the proceedings under the contract would not be stalled.

Clause 2. Commitments of BIDDERS/ CONTRACTORS

- 2.0 The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:-
 - 2.1 The BIDDER will not offer, directly or indirectly (i.e. employees, agents, consultants, advisors, etc.) any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of HITES, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
 - 2.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of HITES or otherwise in procuring the contract or forbearing to do or having done any act in relation to obtaining or execution of the contract or any other contract with HITES for showing or forbearing to show

- favour or disfavor to any person in relation to the contract or any other contract with HITES.
- 2.3 The BIDDER will not engage in collusion, price fixing, cartelization, etc. with other counterparty(s).
- 2.4 The Bidder(s) will not pass to any third party any confidential information entrusted to it, unless duly authorized by HITES.
- 2.5 The Bidder(s) will promote and observe ethical practices within its Organization and its affiliates.
- 2.6 BIDDER shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.
- 2.7 The Bidder(s) will not make any false or misleading allegations against HITES or its Associates.
- 2.8 BIDDER(s) shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
- 2.9 The BIDDER further confirms and declares to HITES that the BIDDER is the original manufacture or its authorised agent/integrator and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to HITES or any of its functionaries, whether officially or unofficially to award the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation.
- 2.10 The BIDDER while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of HITES or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 2.11 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 2.12 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 2.13 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of HITES, or alternatively, if any relative of an officer of HITES has financial interest/stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of tender.

The term 'relative' for this purpose would be as defined in Section 2(77) of the Companies Act 2013

- 2.14 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of HITES.

- 2.15 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract, and will not enter into any undisclosed agreement or understanding with other Bidders, whether formal or informal. This applies in particular to prices, specifications, certifications, subsidiary contracts, submission or non-submission of bids or any other actions to restrict competitiveness or to introduce cartelization in the bidding process.
- 2.16 The BIDDER will not commit any offence under the relevant Indian Penal Code, 1860 or Prevention of Corruption Act, 1988; further the Bidder(s)/ Contractor(s) will not use improperly, for purposes of competition or personal gain, or pass on to others, any information or document provided by the HITES as part of the business relationship, regarding plans, technical proposals and business details, including information contained or transmitted electronically. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 2.17 The BIDDER will not instigate third persons to commit offences outlined above or be an accessory to such offences.
- 2.18 The Bidder(s)/Contractors(s) of foreign origin shall disclose the name and address of the Agents/representatives in India, if any. Similarly the Bidder(s)/ Contractors(s) of Indian Nationality shall furnish the name and address of the foreign Principal(s), if any.
- 2.19 The Bidder(s) shall not approach the courts while representing the matters to IEM and the Bidder(s) will await their decision in the matter.

Clause.3. Previous contravention and Disqualification from tender process and exclusion from future contracts

- 3.1** The BIDDER declares that no previous contravention occurred in the last three years immediately before signing of this Integrity Pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the tender process
- 3.2** The BIDDER agrees that if it makes incorrect statement on this subject, BIDDER can be disqualified from the tender process or the contract, if already awarded, can be terminated for such reason.

If BIDDER before award or during execution has committed a contravention through a violation of Clause 2, above or in any other form such as to put his reliability or credibility in question, t HITES is entitled to disqualify the BIDDER from the tender process.

Clause.4. Equal treatment of all Bidders/Contractors / Subcontractors

- 4.1 The Bidder(s)/Contractor(s) undertake(s) to demand from his Subcontractors a commitment in conformity with this Integrity Pact.
- 4.2 HITES will enter into agreements with identical conditions as this one with all Bidders and Contractors.

- 4.3 HITES will disqualify from the tender process all bidders who do not sign this Pact or violate its provisions.

Clause.5. Consequences of Violation / Breach

- 5.1 Any breach of the aforesaid provision by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle HITES to take all or any one of the following action, wherever required:-
- i. To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
 - ii. If BIDDER commits violation of Integrity Pact Policy during bidding process, he shall be liable to compensate HITES by way of liquidated damages amounting to a sum equivalent to 5% to the value of the offer or the amount equivalent to Earnest Money Deposit/Bid Security, whichever is higher.
 - iii. In case of violation of the Integrity Pact after award of the contract, HITES will be entitled to terminate the contract. HITES shall also be entitled to recover from the contractor liquidated damages equivalent to 10% of the contract value or the amount equivalent to security deposit/ performance guarantee, whichever is higher.
 - iv. To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.
 - v. To recover all sums already paid by HITES, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR. If any outstanding payment is due to the BIDDER from HITES in connection with any other contract for any other stores, such outstanding payment could also be utilized to recover the aforesaid amount.
 - vi. To encash the advance bank guarantee and performance guarantee /warranty bond, if furnished by the BIDDER, in order to recover the payments already made by HITES, along with interest.
 - vii. To cancel all or any other contract with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to HITES resulting from such cancellation/recession and HITES shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
 - viii. To debar the BIDDER from participating in future bidding processes of HITES for a minimum period of five (5) years, which may be further extended at the discretion of HITES or until Independent External Monitors is satisfied that the Bidder (s) will not commit any future violation.
 - ix. To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
 - x. In cases where irrevocable Letters of credit have been received in respect of any contract signed by HITES with the BIDDER, the same shall not be opened.

- xi. Forfeiture of performance guarantee in case of a decision by HITES to forfeit the same without assigning any reason for imposing sanction for violation of the pact.

5.2 HITES will be entitled to all or any of the actions mentioned in para 5.1(i) to (x) of this pact also on the commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of an offence as defined in Chapter IX of the Indian Penal Code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.

5.3 The decision of HITES to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, the BIDDER can approach the Independent External Monitor(s) appointed for the purposes of this Pact.

Clause.6. Fall Clause

The BIDDER undertakes that it has not supplied/is not supplying similar product /systems or subsystems OR providing similar services at a price/charge lower than that offered in the present bid in respect of any other Ministry/Department of the Government of India or PSU and if it is found any stage that similar product/systems or sub systems was supplied by the BIDDER to any to the Ministry/Department of the Government of India or a PSU at a lower price, then that very price, with due allowance for elapsed time will be applicable to the present case and the difference in the cost would be refunded by the BIDDER to HITES, if the contract has already been concluded.

Clause .7. Independent External Monitor(s)

7.1 HITES has appointed Sh. A.K. Arora, EX-DG, Indian Defense Service of Engineers as Independent External Monitor(s) (hereinafter referred to as IEM(s)) for this Pact in consultation with the Central Vigilance Commission. Contact details of IEM is as below:

Sh. A.K. Arora
Independent External Monitor (IEM)

Office: HLL Infra Tech Services Ltd
B-14-A, sector 62, Noida 201307, U.P
Tel: 0120 4071500

Residence: B-333, Chittaranjan Park
New Delhi – 110019
Tel: 011 26273406

Mobile: +91 8130588577
Email: iem@hllhites.com

7.2 The responsibility of the IEM(s) shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.

7.3 The IEM(s) shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.

- 7.4 Both the parties accept that the IEM(s) have the right to access all the documents relating to the project/ procurement, including minutes of meetings.
- 7.5 As soon as the IEM(s) notices, or has reason to believe, a violation of this pact, he will so inform the CEO/CMD.
- 7.6 The BIDDER(S) accepts that the IEM(s) have the right to access without restriction to all project documentation of HITES including that provided by the BIDDER. The BIDDER will also grant the IEM(s), upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to subcontractors engaged by the BIDDER. The IEM(s) shall be under contractual obligation to treat the information and documents of the BIDDER/ Subcontractor(s) with confidentiality.
- 7.7 HITES will provide to the IEM(s) sufficient information about all meetings among the parties related to the Project provided such meeting could have an impact on the contractual relation between the parties. The parties will offer to the IEM(s) option to participate in such meetings.
- 7.8 The IEM(s) will submit a written report to the CEO/CMD of HITES within 3 to 5 weeks from the date of reference or intimation to him by HITES/BIDDER.

Clause.8. Criminal charges against violating Bidder(s)/Contractor(s)/Subcontractor(s)

If HITES obtains knowledge of conduct of a Bidder, Contractor or Subcontractor, or of an employee or a representative or an associate of a Bidder, Contractor or Subcontractor which constitutes corruption, or if HITES has substantive suspicion in this regard, HITES will inform the same to the Chief Vigilance Officer, HLL

Clause.9. Facilitation of Investigation

In case of any allegation of violation of any provisions of this Pact or payment of commission, HITES or its agencies shall be entitled to examine all the documents, including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

Clause.10. Law and Place of Jurisdiction

Both the Parties agree that this Pact is subject to Indian Law. The place of performance and hence this Pact shall be subject to Delhi/ NCR Jurisdiction.

Clause.11. Other legal Actions

The actions stipulated in the Integrity Pact are without prejudice to any other legal action that may follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

Clause.12. Validity and Duration of the Agreement

This Pact begins when both parties have legally signed it. It expires for the Contractor/Successful bidder 12 months after the last payment under the contract or the complete execution of the contract to the satisfaction of the both HITES/Consignee and the BIDDER/Seller, including warranty period, whichever is later, and for all other Bidders/unsuccessful bidders 6 months after the contract has been awarded.

If any claim is made / lodged during this time, the same shall be binding and continue to be valid despite the lapse of this pact as specified above, unless it is discharged / determined by Chairman and Managing Director/ CEO of HITES.

Clause. 13. Other provisions

- 13.1 Changes and supplements as well as termination notices need to be made in writing. Both the Parties declare that no side agreements have been made to this Integrity Pact.
- 13.1 If the Contractor is a partnership or a consortium, this agreement must be signed by all partners or consortium members.
- 13.1 Should one or several provisions of this agreement turn out to be invalid, the remainder of this agreement remains valid. In this case, the parties will strive to come to an agreement to their original intentions

IN WITNESS THEREOF the parties have signed and executed this pact at the place and date first above mentioned in the presents of following witnesses:

HLL Infra Tech Services Ltd.

Bidder

Witness

Witness

1.....

1.....

2.....

2.....

* Provisions of these clauses would be amended /deleted in line with the policy of the HITES in regard to involvement of Indian agents of foreign suppliers.