TENDER ENQUIRY DOCUMENT

FOR SUPPLY, INSTALLATION & COMMISSIONING OF
HOSPITAL EQUIPMENT
FOR
TWENTY MOTHER & CHILD CARE HOSPITALS
IN
TWENTY DIFFERENT DISTRICTS OF UTTAR PRADESH

Tender No.HLL/HMC/Hospital Equipment/18-19/001

HLL Mother & Child Care Hospitals Ltd.

(100% Subsidiary of HLL Lifecare Ltd.,)
(A Govt. of India Enterprise)

B-14 A, Sector-62, Noida - 201 307
Phone: 0120-4071500; Fax: 0120-4071513
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I N D E X

Section-I
NOTICE INVITING TENDER (NIT)

Tender No.HLL/HMC/Hospital Equipment/18-19/001 **Dated: 01.03.2018**

HLL Mother & Child Care Hospital Limited, a 100% subsidiary of HLL Lifecare Ltd., (hereinafter refers as "Purchaser") invites sealed tenders in two bid systems (Technical Bid & Price Bid in two separate sealed envelopes) from Manufacturers/their authorized Distributors/Dealers for supply, installation & commissioning of Hospital Equipment for Twenty Mother & Child Care Hospitals to be set up in Twenty Different Districts of Uttar Pradesh.

S. No	Equipment	Group	Qty for single Hospital	Qty for 20 hospital	EMD Amount
1	Syringe & needle cutter	A	20	400	40,70,000
2	Hydraulic OT Table		4	80	
3	Delivery Table with Footstep		4	80	
4	Ceiling shadow less lights for OT		2	40	
5	Portable shadow less lights for Labour Room		6	120	
6	Examination Table SS with footstep		5	100	
7	X-ray view box		5	100	
8	Transfer Trolley for OT Sterile Zone		2	40	
9	Gynaec electric cautery		2	40	
10	Suction Apparatus high Vacuum	B	4	80	9,16,000
11	Suction Apparatus Electrical		4	80	
12	Mucus Extractor with suction tube and foot operated suction machine		4	80	
13	Adult resuscitation kit		4	80	
14	Neonatal resuscitation kit		4	80	
15	Oxygen Cylinder B Type		25	500	
16	Nitrous Oxide Cylinder B Type		5	100	
17	Regulator & Flow Meter for Medical Gas		25	500	
18	Vento use (for vacuum extraction delivery)		2	40	
19	MTP set with karmon suction canula and MVA syringe		02 set	40 set	
20	Laryngoscope		1	20	

S. No	Equipment	Group	Qty for single Hospital	Qty for 20 hospital	EMD Amount
21	Foetal Monitor	C	3	60	62,06,000
22	Multi Para Pulse Oxymeter		3	60	
23	Nebulizer		10	200	
24	Multipara bed side monitor (6 parameter) with central Nursing Centre		1	20	
25	Pediatric Ventilator for ICU		2	40	
26	Colour Ultrasound Machine Mobile- For Screening Purpose		2	40	
27	Transport Ventilator		1	20	
28	Transport Ventilator Neonatal		1	20	
29	Defibrillator		2	40	
30	Portable Ultrasound		1	20	
31	3-D Ultrasound- High End for Diagnostics		1	20	
32	X-ray		1	20	
33	Constant Temp Water Bath with Thermometer for Lab		1	20	
34	CPAP Machine with Heated Humidifier		2	40	
35	Foetal Doppler		6	120	
36	Stethoscope for Pediatric as well as Adult	D	10	200	35,80,400

S. No	Equipment	Group	Qty for single Hospital	Qty for 20 hospital	EMD Amount
37	BP Instrument stand type		5	100	
38	BP Instrument table top model		5	100	
39	Infant BP Instrument		5	100	
40	Digital Weighing Machine Adult		5	100	
41	Digital Weighing Machine Infant		5	100	
42	Dressing Drum SS of different sizes		3	60	
43	ECG Machine		2	40	
44	Delivery Instrument Set		10 set	200 set	
45	Episiotomy Instrument Set		10 set	200 set	
46	MVA/EVA Instrument Set		08 set	160 set	
47	PPIUCD Instrument Set		06 set	120 set	
48	Outlets forceps		2	40	
49	Digital Thermometer		20	400	
50	Infusion Pump		6	120	
51	Caesarean Section		04 set	80 set	
52	Suture removal		10 set	200 set	
53	Suturing Tray		10	200	
54	Anesthesia trolley and General Anesthesia kit		04 set	80 set	
55	Microscope binocular		2	40	
56	Glucometer		2	40	
57	Serum bilirubino meter		2	40	
58	Height measuring stand		4	80	
59	Ambu Bag		10	200	
60	Oxygen Concentrator		1	20	
61	Instrument Tray Different Sizes		30	600	
62	Air curtain at entrance for O.T, SNCU, ISU, Labour Room		8	160	

S. No	Equipment	Group	Qty for single Hospital	Qty for 20 hospital	EMD Amount
63	Radiant Warmer	E	6	120	11,92,000
64	Phototherapy Unit		4	80	
65	Microprocessor Based Incubator (Transport type)		1	20	
66	Bacteriological Incubator		1	20	
67	Baby Bassinet		10	200	
68	High Pressure Sterilizer Horizontal	F	1	20	7,47,400
69	High Pressure Sterilizer Vertical		2	40	
70	Instrument Sterilizer		8	160	
71	PN Sterilization		04 set	80 set	
72	Semi auto biochemistry analyzer		1	20	
73	Blood Storage Refrigerator		1	20	
74	Centrifuge- 12 Tubes		1	20	
75	Blood Gas Analyzer		1	20	
76	Hematology Analyzer		1	20	
77	Blood Cell Counter (Manual)		1	20	

Note- The bidder may participate and submit their bids for any one or more groups in this tender. However, bidder has to quote for all the items (providing individual price of each line item) in the group(s) quoted for. In case any line item is not offered while quoting for a group of items the bid for that group shall be rejected without evaluating further. The group wise comparison/ranking of bids shall be determined for consideration of award based on the total value (including all taxes & duties and any other charges incurred till Consignee site) of a group of items.

TENDER TIME LINE

Sl. No.	Description	Schedule
1	Last date for receipt of pre-bid queries	06.03.2018 by 6.00PM
2	Pre-bid Meeting Date & Time	07.03.208 at 3.00PM
3	Closing date & time for Submission of Bids	15.03.2018 at 2.00PM
4	Time & date for Opening of Technical Bid	15.03.2018 at 3.00PM

5	Venue for : Submission of Tender & Opening of Tender	HLL Mother & Child Care Hospitals Ltd, B-14 A, 2nd Floor, Sector-62, Noida (UP)

SPECIFIC Instructions for Tender Participation:-

1. Tenderer may download the tender enquiry documents from the web site www.lifecarehll.com or www.hllmotherchildcare.com or www.eprocure.gov.in/epublish/app
2. Tenderer would be required to submit as Interest free Earnest Money Deposit (EMD) in the form of Demand Draft in favor of 'HLL Mother & Child Care Hospitals Ltd.' payable at Noida in the envelope containing Technical Bid (as per GIT clause no.12.1).
3. Prospective bidders may send their queries 01 (one) days before the pre-bid meeting so that they can be studied and addressed during pre-bid meeting. Query can also be raised during pre-bid meeting. No queries/ representations will be entertained after pre-bid meeting.
4. All prospective tenderers may attend the Pre Tender meeting. The venue, date and time as indicated in Tender Timeline.
5. The bidder should provide detail profile of their work experience along with Xerox copies of Supply Orders /Purchase orders against which they successfully supplied these items to Govt. Hospitals/Private Hospital/Medical Institute etc.
6. HLL MCCH Ltd., reserves the right to ask for a free demonstration of the quoted equipment at a pre-determined place for technical acceptability as per the tender specifications, before the opening of the financial bid.
7. Bidder qualifying the technical parameters would only be considered for opening of financial bids.
8. The basic rate quoted by the bidder should be valid for a period of one year from the date of award of purchase order as per details mentioned in Financial Bid document.
9. **The bidder may participate and submit their bids for any one or more groups in this tender. However, bidder has to quote for all the items (providing individual price of each line item) in the group(s) quoted for. In case any line item is not offered while quoting for a group of items the bid for that group shall be rejected without evaluating further. The group wise comparison/ranking of bids shall be determined for consideration of award based on the total value (including all taxes & duties and any other charges incurred till Consignee site) of a group of items.**
10. The successful bidder shall not assign or transfer the contract to any other person or party. The tender is not transferable.

Team Leader – Admin & Commercial
HLL Mother Child Care Hospitals Limited

SECTION –II

GENERAL INSTRUCTIONS TO TENDERERS (GIT)

1 Introduction

1.1 The Purchaser has issued these TE documents for supply, installation & commissioning of Hospital Equipment for (20) twenty Mother & Child Care Hospitals in twenty districts of Uttar Pradesh as mentioned in Section – VI – "List of Requirements", which also indicates, *interalia,* the required delivery schedule, terms and place of delivery.

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

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

2 Language of Tender

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

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

3 Eligible Tenderers

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

4 Eligible Goods and Services

4.1 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.

5 Tendering Expense

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

6 Amendments to TE documents

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

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

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

7 Clarification of TE documents

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

C. PREPARATION OF TENDERS

8 Documents comprising the Tender

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

i. Techno-Commercial Bid provided with the tender enquiry
ii. Earnest money Deposit (EMD) furnished in accordance with GIT clause 12.1 alternatively, documentary evidence as per GIT clause 12.2 for claiming exemption from payment of earnest money.
iii. Tender Form as per Section X (without indicating any prices).
iv. Documentary evidence, establishing that the tenderer is eligible to submit the tender and, also, qualified to perform the contract if its tender is accepted.
v. Tenderer/Agent who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorization **strictly as per the prescribed format (Section - XII) and as per instruction in SIT.**
vi. Power of Attorney issued by Competent Authority in favour of the person **who is** signing **the tender(s).**
vii. Documents and relevant details to establish that the goods and the allied services to be supplied by the tenderer conform to the requirement of the TE documents.
viii. Performance Statement as per Performa `A' along with relevant copies of orders and end users' satisfaction certificate.
ix. Price Schedule(s) as per Section XI filled up with all the details including Make, Model etc. of the goods offered with prices blank (without indicating any prices).
x. Certificate of Incorporation.
xi. Self-Attested copies of VAT/GST registration certificate and PAN Card.
xii. Non conviction /no pending conviction certification issued by Notary on judicial stamp paper for preceding three years.
xiii. Self-Attested copies of quality certificates i.e. BIS/ISO/US FDA /CE Certificate issued by competent authority, if applicable.
xiv. Documentary evidence stating the status of bidder.
xv. List of procurement agencies of repute to which the tendered product have been supplied during last 12 months.
xvi. Self-attested copies of annual report, audited balance sheet and profit & loss account for preceding three years from the date of tender opening.
xvii. Notarized affidavit that tenderer does not have any relation with the person authorized to evaluate technically or involve in finalizing the tender or will decide the use of tendered items.

xviii. A self-declaration on Rs. 10/- non-judicial Stamp Paper that the rates quoted in the tender are the lowest and not quoted less than this to any Government Institution (State/Central/ other Institute in India).

xix. **Copies of original product catalogues / data sheet must be enclosed of all quoted items**.

B) Price Bid:

i. Prices are to be quoted in the prescribed Price Bid format provided along with the tender enquiry.

ii. The Bidder shall indicate on the Price Schedule all the specified components of prices shown therein including the unit prices and total tender prices of the goods and services it proposes to supply against the requirement. 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.

iii. The rates quoted by the Bidder should be inclusive of all Taxes/Levies/Packaging & Forwarding, Freight [FOR at Districts mentioned in Schedule-XI], installation, Commissioning & Trial Run etc.

iv. The bidder must quote for all the items in the BOQ of each Schedule, failing which the bid will be considered Non- Responsive.

v. The price quoted by the Bidder shall not be higher than the lowest price charged for the goods of the same nature, class or description to an individual/firm/organization or department of Govt. of India during the same period.

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

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

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

9 Tender currencies

9.1 The tenderer supplying indigenous goods or already imported goods shall quote only in Indian Rupees (INR). A tenderer quoting imported goods located within India shall produce documentary evidence of the goods having been imported and already located within India, in case their bid is found to be the lowest one after opening of price bid.

9.2 Tenders, where prices are quoted in any other currency may not be accepted and are liable to be ignored.

10 Documents Establishing Tenderer's Eligibility and Qualifications

10.1 The tenderer shall furnish, as part of its tender, relevant details and documents establishing its eligibility to quote and its qualifications to perform the contract if its tender is accepted.

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

a) In case the tenderer offers to supply goods, which are manufactured by some other firm, the tenderer has been duly authorized by the goods manufacturer to quote for and supply the goods to the purchaser. The tenderer shall submit the manufacturer's authorization letter to this effect as per the standard form provided under Section XII in this document.

b) The tenderer has the required financial, technical and production capability necessary to perform the contract and, further, it meets the qualification criteria incorporated in the Section IX in these documents.

c) In case the tenderer is not doing business in India, it is duly represented by an agent stationed in India fully equipped and able to carry out the required contractual functions and duties of the supplier including after sale service, maintenance & repair etc. of the goods in question,

stocking of spare parts and fast moving components and other obligations, if any, specified in the conditions of contract and/or technical specifications.

d) In case the tenderer is an Indian agent/authorized representative quoting on behalf of a foreign manufacturer for the **restricted item**, the Indian agent/authorized representative is already enlisted under the Compulsory Enlistment Scheme of Ministry of Finance, Govt. of India, operated through Directorate General of Supplies & Disposals (DGS&D), New Delhi.

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

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

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

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

12. Earnest Money Deposit (EMD)

12.1 The tenderer shall furnish along with its tender, earnest money as mentioned in the section-1 in form of Account Payee demand draft to be drawn on any scheduled commercial bank in India in favour of the "**HLL Mother & Child Care Hospitals Limited**" payable at Noida.

12.2 The earnest money shall be valid for a period of forty-five (45) days beyond the validity period of the tender.

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

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

13. Tender Validity

13.1 The tenders shall remain valid for acceptance for a period of 15 months (One hundred and twenty days) after the date of tender opening prescribed in the TE document. Any tender valid for a shorter period shall be treated as unresponsive and rejected.

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

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

14. Submission of Tenders

14.1 The tenderer needs to submit 'Technical Bid' & 'Financial Bid' separately in sealed envelopes by super scribing as **"**Proposal for Supply of Hospital Equipment to Twenty (20) Mother & Child Hospitals in twenty (20) different districts of Uttar Pradesh" in Tender Box provided at address mentioned in Tender Timeline:

15. Late Tender:

15.1 There is NO PROVISION of entertaining late tender beyond stipulated date & time.

16. Alteration and Withdrawal of Tender

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

E. TENDER OPENING

17. Opening of Tenders

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

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

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

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

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

F. SCRUTINY AND EVALUATION OF TENDERS

18 Basic Principle

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

19 Scrutiny of Tenders

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

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

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

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

- Tender validity is shorter than the required period.
- Required EMD or its exemption documents have not been provided.
- Tenderer has not agreed to give the required performance security of required amount in an acceptable form
- Poor/ unsatisfactory past performance.
- Tenderers who stand deregistered/banned/blacklisted by any Govt. Authorities.
- **The bidder not quote for all the items in the BOQ of each Schedule.**
- Tenderer has not agreed to other essential condition(s) specially incorporated in the tender enquiry, like delivery terms, delivery schedule, terms of payment, liquidated damages clause, warranty clause, dispute resolution mechanism applicable law.

20 Minor Informality/Irregularity/Non-Conformity

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

21 Discrepancies in Prices

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

21.2 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

21.3 If there is a discrepancy between the amount expressed in words and figures, the amount in words shall prevail, subject to sub clause 21.1 and 21.2 above.

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

22 Qualification Criteria

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

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

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

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

Start-up means an entity, incorporated or registered in India not prior to five years, with annual turnover not exceeding INR 25 crore in any preceding financial year, working towards innovation, development, deployment or commercialization of new products, processes or services driven by technology or intellectual property.
Provided that such entity is not formed by splitting up, or reconstruction, of a business already in existence
Provided also that an entity shall cease to be a Start-up if its turnover for the previous financial years has exceeded INR 25 crore or it has completed 5 years from the date of incorporation/ registration
Provided further that a Start-up shall be eligible for tax benefits only after it has obtained certification from the Inter-Ministerial Board, setup for such purpose

23 Additional Factors and Parameters for Evaluation and Ranking of Responsive Tenders

23.1 The purchaser's evaluation of a tender will include and take into account the following:

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

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

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

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

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

iii. The MSEs fulfilling the prescribed eligibility criteria and participating in the tender shall enclose with their tender a copy of their valid registration certificate with District Industries Centres or Khadi and Village Industries Commission or Khadi and Village Industries Board or Coir Board or National Small Industries Corporation or any other body specified by Ministry of Micro and Small enterprises in support of their being an MSE, failing which their tender will be liable to be ignored.

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

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

a. The local supplier at the time of tender, bidding or solicitation shall be required to provide self-certification that the item offered meets the minimum local content and shall give details of the location(s) at which the local value addition is made.

b. In cases of procurement for a value in excess of Rs. 10 crores, the local supplier shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practicing cost accountant or practicing chartered accountant (in respect of suppliers other than companies) giving the percentage of local content.

24 Tenderer's capability to perform the contract

24.1 The purchaser, through the above process of tender scrutiny and tender evaluation will determine to its satisfaction whether the tenderer, whose tender has been determined as the lowest evaluated responsive tender is eligible, qualified and capable in all respects to perform the contract satisfactorily. Purchaser reserves the right to ask for a free demonstration of the quoted equipment at a pre-determined place for technical acceptability as per the tender specifications, before the opening of the financial bid.

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

25 Contacting the Purchaser

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

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

G. AWARD OF CONTRACT

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

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

27 Award Criteria

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

27.2 The contract will be awarded to the lowest evaluated responsive tenderer decided by the purchaser.

27.2 Award of Contract for supply of Hospital Equipment will be in phase manner for twenty (20) Mother & Child Hospitals (or less in numbers). The tentative schedule of Award of Contract shall be as under:-

For Four (04) Facilities/Hospitals	-	March'2018
For Six (06) Facilities/Hospitals	-	June'2018
For Ten (10) Facilities/hospitals	-	September'2018

27.3 Purchaser may award the purchase order to L2 in the event L1 backs out. In such case purchaser may ask L2 bring to bring down his rates to L1 price and also reserves the right to forfeit the EMD of the L1bidder.

28 Variation of Quantities at the Time of Award/ Currency of Contract

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

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

29 Notification of Award

29.1 Before expiry of the tender validity period, the purchaser will notify the successful tenderer(s) in writing, by registered / speed post or by email (to be confirmed by registered / speed post) that its tender for supply, installation & commissioning of Hospital Equipment, which have been selected by the purchaser, has been accepted, also briefly indicating there in the essential details like description, specification and quantity of the goods & services and corresponding prices accepted. The successful tenderer must furnish to the purchaser the required performance security within thirty days from the date of dispatch of this notification, failing which the EMD will forfeited and the award will be cancelled.

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

30 Issue of Contract

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

30.2 Within ten days from the date of the contract, the successful tenderer shall return the original copy of the contract, duly signed and dated, to the Purchaser by registered / speed post. The successful tenderer should also submit Proforma Invoice from the foreign principal (if applicable as per contractual price) within 10 days from the date of NOA.

30.3 The Purchaser reserves the right to issue the Notifications of Award district wise.

31 Non-receipt of Performance Security, Proforma Invoice and Contract by the Purchaser

31.1 Failure of the successful tenderer in providing performance security, Proforma Invoice and / or returning contract copy duly signed shall make the tenderer liable for forfeiture of its EMD and, also, for further actions by the Purchaser/Consignee against it.

32 Corrupt or Fraudulent Practices

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

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

(i) "corrupt practice" means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution; and

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

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

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

SECTION-III

SPECIAL INSTRUCTIONS TO TENDERERS (SIT)

Sl. No.	Topic	SIT Provision
1	TE Document	No Change
2	Preparation of Tenders	No Change
3	Submission of Tenders	No Change
4	Tender Opening	No Change
5	Scrutiny and Evaluation of Tenders	No Change
6	Award of Contract	No Change

- All the items under this tender **must be quoted in Indian Rupees only**. There will not be any CDEC issued against these items.
- **The bidder may participate and submit their bids for any one or more groups in this tender. However, bidder has to quote for all the items (providing individual price of each line item) in the group(s) quoted for. In case any line item is not offered while quoting for a group of items the bid for that group shall be rejected without evaluating further. The group wise comparison/ranking of bids shall be determined for consideration of award based on the total value (including all taxes & duties and any other charges incurred till Consignee site) of a group of items.**
- **Bidders have to submit the Manufacturer authorization form in the prescribed format mentioned at section XII for the items in the table below against their offered group of items.**

NIT S. No	Equipment	Group
2	Hydraulic OT Table	A
4	Ceiling shadow less lights for OT	A
5	Portable shadow less lights for Labour Room	A
9	Gynaec electric cautery	A
24	Multipara bed side monitor (6 parameter) with central Nursing Centre	C
25	Pediatric Ventilator for ICU	C
26	Colour Ultrasound Machine Mobile- For Screening Purpose	C
27	Transport Ventilator	C
28	Transport Ventilator Neonatal	C
30	Portable Ultrasound	C
31	3-D Ultrasound- High End for Diagnostics	C
54	Anesthesia trolley and General Anesthesia kit	D
63	Radiant Warmer	E
65	Microprocessor Based Incubator (Transport type)	E
72	Semi auto biochemistry analyzer	F
73	Blood Storage Refrigerator	F
74	Centrifuge- 12 Tubes	F
75	Blood Gas Analyzer	F
76	Hematology Analyzer	F
77	Blood Cell Counter (Manual)	F

SECTION-IV
General Conditions of Contract

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 List of Requirement under Section-V and Technical Specification under Section-VI of this document.

2. **Use of contract documents and information**

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

3 Patent Rights

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

4 Country of Origin

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

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

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

5 Performance Security

5.1 Within twenty one (21) days from date of the issue of notification of award by the Purchaser, 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 sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations, initially valid for a period of minimum six months plus number of months under warranty from the date of Notification of Award

5.2 The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:
It shall be in any one of the forms namely Account Payee Demand Draft or Fixed Deposit Receipt drawn from any Scheduled bank in India or Bank Guarantee issued by a Scheduled bank in India, in the prescribed form as provided in section XIII 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 sixty (60) days beyond Warranty Period.

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

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

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

5.6 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 district wise bank guarantee for CMC security in favour of Purchaser as per the format in Section XV.

6 Technical Specifications and Standards

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

7 Packing and Marking

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

7.2 The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications and Quality Control Requirements under Sections VII and VIII. 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.

8 Inspection, Testing and Quality Control

8.1 The purchaser and/or its nominated representative(s) will, without any extra cost to the purchaser, inspect and/or test the ordered goods and the related services to confirm their conformity to the contract specifications and other quality control details incorporated in the contract. The purchaser shall inform the supplier in advance, in writing, the purchaser's programme for such inspection and, also the identity of the officials to be deputed for this purpose. "The cost towards the transportation, boarding and lodging will be borne by the purchaser and/or its nominated representative(s) for the first visit. In case the goods are rejected in the first instance and the supplier requests for re-inspection, and if same is accepted by purchaser/consignee/PSA/PA, all subsequent inspections shall be at the cost of the supplier. The expense will be to and fro Economy Airfare, Local Conveyance, Boarding and Lodging of the inspection team for the inspection period."

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

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

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

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

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

"On rejection, the supplier shall remove such stores within 14 days of the date of intimation of such rejection from the consignee's premises. If such goods are not removed by the supplier within the period mentioned above, the purchaser 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 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 or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's right to reject the same later, if found deficient in terms of the warranty clause of the contract.

9 Warranty:

9.1 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.

9.2 The warranty shall remain valid for 60 months from the date of installation & commissioning with a regular updates of newer technology as and when evolved followed by a CMC for a period of 5 (Five) Years for all the equipment after the goods or any portion thereof as the case may be, have been delivered to the final destination and installed and commissioned at the final destination and accepted by the purchaser/ consignee in terms of the contract, unless specified otherwise in the SCC.

9.3 No conditional warranty will be acceptable.

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

9.5 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.

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

9.7 The Purchaser reserve the rights to enter into Annual Comprehensive Maintenance Contract for the period as mentioned in Section VII, Technical Specifications after the completion of warranty period.

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

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

10 Modification of Contract

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

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

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

18.2 In the event of any such modification/alteration causing increase or decrease in the cost of goods and services to be supplied and provided, or in the time required by the supplier to perform any obligation under the contract, an equitable adjustment shall be made in the contract price and/or contract delivery schedule, as the case may be, and the contract amended accordingly. If the supplier doesn't agree to the adjustment made by the Purchaser, 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 Taxes and Duties

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

20. Terms of Payment

20.1 On successful installation & commissioning of equipment, designated Committee appointed by State shall conduct an inspection to inspect & certify that the commissioned equipment are as per specification given in tender document. The payment to the supplier shall be released after 30 days of submission of report by the State Level Committee subject to submission of following documents:-

- Four copies of supplier's invoice showing contract number, goods description, quantity, unit price, total amount, Permanent Account Number and GSTIN ;
- Delivery Challan duly signed & stamped by the authorized representative of purchaser as per format .
- Documentary proof for supply, installation & commissioning of equipment.
- Crossed/cancelled cheque of Bank Account for making payment through NEFT/RTGS.

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

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

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

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

21 Delivery

21.1 The supplier shall deliver the goods and perform the services under the contract within the time schedule specified by the Purchaser/Consignee in the List of Requirements and as incorporated in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed not later than the date (s) as specified in the contract.

21.2 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/Consignee in writing about the same and its likely duration and make a request to the Purchaser/Consignee for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/Consignee

shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

21.3 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 lie against the purchaser.

22. Liquidated damages

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

23 Termination for default

23.1 The Purchaser without prejudice to any other contractual rights and remedies available to 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.

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

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

24 Termination for insolvency

24.1 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.

25 Force Majeure

25.1 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.

25.2 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.

25.3 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.

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

26 Termination for convenience

26.1 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 interalia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.

26.2 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.

27 Resolution of disputes

27.1 If dispute or difference of any kind shall arise between the Purchaser 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.

27.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then either the Purchaser or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India or amendments thereof. In the case of a dispute or difference arising between the Purchaser 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 who will be Government servant & who had not dealt with matters to which this agreement relates and in course of his duties had not expressed views on all or any of the matter in disputes or differences. The award of the arbitrator shall be final and binding on the parties.

27.3 Venue of Arbitration: The venue of arbitration shall be the place from where the contract has been issued, i.e., Lucknow, Uttar Pradesh.

28. Applicable Law

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

SECTION-V

SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below.
These Special Conditions will modify/substitute/supplement the corresponding (GCC) clauses.
Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

The Warranty and CMC period will be strictly as mentioned in the list of requirement (Section VI, part I) only irrespective of any other period mentioned elsewhere in the tender enquiry. Also, CMC only to be quoted after warranty period instead of AMC mentioned (if any) in the tender specification.

SECTION-VI

LIST OF REQUIREMENT

Part I

S. No	Equipment	Group	Warranty Period	CMC Period
1	Syringe & needle cutter	A	5 years	5 years
2	Hydraulic OT Table		5 years	5 years
3	Delivery Table with Footstep		5 years	5 years
4	Ceiling shadow less lights for OT		5 years	5 years
5	Portable shadow less lights for Labour Room		5 years	5 years
6	Examination Table SS with footstep		5 years	5 years
7	X-ray view box		5 years	5 years
8	Transfer Trolley for OT Sterile Zone		5 years	5 years
9	Gynaec electric cautery		5 years	5 years
10	Suction Apparatus high Vacuum	B	5 years	5 years
11	Suction Apparatus Electrical		5 years	5 years
12	Mucus Extractor with suction tube and foot operated suction machine		5 years	5 years
13	Adult resuscitation kit		5 years	5 years
14	Neonatal resuscitation kit		5 years	5 years
15	Oxygen Cylinder B Type		5 years	5 years
16	Nitrous Oxide Cylinder B Type		5 years	5 years
17	Regulator & Flow Meter for Medical Gas		5 years	5 years
18	Vento use (for vacuum extraction delivery)		5 years	5 years
19	MTP set with karmon suction canula and MVA syringe		5 years	5 years
20	Laryngoscope		5 years	5 years
21	Foetal Monitor	C	5 years	5 years
22	Multi Para Pulse Oxymeter		5 years	5 years
23	Nebulizer		5 years	5 years
24	Multipara bed side monitor (6 parameter) with central Nursing Centre		5 years	5 years
25	Pediatric Ventilator for ICU		5 years	5 years
26	Colour Ultrasound Machine Mobile- For Screening Purpose		5 years	5 years

S. No	Equipment	Group	Warranty Period	CMC Period
27	Transport Ventilator		5 years	5 years
28	Transport Ventilator Neonatal		5 years	5 years
29	Defibrillator		5 years	5 years
30	Portable Ultrasound		5 years	5 years
31	3-D Ultrasound- High End for Diagnostics		5 years	5 years
32	X-ray		5 years	5 years
33	Constant Temp Water Bath with Thermometer for Lab		5 years	5 years
34	CPAP Machine with Heated Humidifier		5 years	5 years
35	Foetal Doppler		5 years	5 years
36	Stethoscope for Pediatric as well as Adult		5 years	5 years
37	BP Instrument stand type		5 years	5 years
38	BP Instrument table top model		5 years	5 years
39	Infant BP Instrument		5 years	5 years
40	Digital Weighing Machine Adult		5 years	5 years
41	Digital Weighing Machine Infant		5 years	5 years
42	Dressing Drum SS of different sizes		5 years	5 years
43	ECG Machine	D	5 years	5 years
44	Delivery Instrument Set		5 years	5 years
45	Episiotomy Instrument Set		5 years	5 years
46	MVA/EVA Instrument Set		5 years	5 years
47	PPIUCD Instrument Set		5 years	5 years
48	Outlets forceps		5 years	5 years
49	Digital Thermometer		5 years	5 years
50	Infusion Pump		5 years	5 years

S. No	Equipment	Group	Warranty Period	CMC Period
51	Caesarean Section		5 years	5 years
52	Suture removal		5 years	5 years
53	Suturing Tray		5 years	5 years
54	Anesthesia trolley and General Anesthesia kit		5 years	5 years
55	Microscope binocular		5 years	5 years
56	Glucometer		5 years	5 years
57	Serum bilirubino meter		5 years	5 years
58	Height measuring stand		5 years	5 years
59	Ambu Bag		5 years	5 years
60	Oxygen Concentrator		5 years	5 years
61	Instrument Tray Different Sizes		5 years	5 years
62	Air curtain at entrance for O.T, SNCU, ISU, Labour Room		5 years	5 years
63	Radiant Warmer	E	5 years	5 years
64	Phototherapy Unit		5 years	5 years
65	Microprocessor Based Incubator (Transport type)		5 years	5 years
66	Bacteriological Incubator		5 years	5 years
67	Baby Bassinet		5 years	5 years
68	High Pressure Sterilizer Horizontal	F	5 years	5 years
69	High Pressure Sterilizer Vertical		5 years	5 years
70	Instrument Sterilizer		5 years	5 years
71	PN Sterilization		5 years	5 years
72	Semi auto biochemistry analyzer		5 years	5 years
73	Blood Storage Refrigerator		5 years	5 years
74	Centrifuge- 12 Tubes		5 years	5 years
75	Blood Gas Analyzer		5 years	5 years
76	Hematology Analyzer		5 years	5 years
77	Blood Cell Counter (Manual)		5 years	5 years

Part II: Required Delivery Schedule:

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

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

b) Installation and commissioning shall be done within 15 days of receipt of the stores/ goods at site or 15 days of handing over the site for installation, whichever is later.

Part III: Scope of Incidental Services:

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

Part IV:

Turnkey (if any) as per details in Technical Specification.

Part V:

Warranty period as per details in general technical specification and as specified in Part I above. Warranty period will be 60 months from the date of installation, commissioning and acceptance or 66 months from the date of last shipment/dispatch, whichever is earlier.

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

Part VI:

Required Terms of Delivery and Destination.

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

At Consignee Site(s)

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.

Destination/Consignee details are given in Section XV

SECTION-VII
TECHNICAL SPECIFICATIONS

S.No.	Item		Specifications
1.	Syringe & needle cutter		Technical Specification of Needle Destroyer • It should be manual/battery operated. • Should be safe to operate, without having any sharp edge. • The destroyed part of the needle should not be exposed outside. • Should be made of high grade material for durability and long working hours • European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
2.	Hydraulic OT table**		SPECIFICATIONS OF HYDROLIC OPERATION TABLE With Hi-Low Electric (Obstetric Type) • Five Section table top allow ease and comfort for surgical positions. • Interchangeable Head and Leg Section. • Base and Column covered with 304G die pressed stainless Steel top to ensure high durability hygiene for the operation room. • Head Section , Leg Section , Main Frame and Middle section should be made of 14G SS 40mm x 40mm Pipe. • Hydraulic Movement : Hi-Low Positions Mechanical Movement : o Kidney Section o Head Section o Leg Section o Lateral tilt o Flex / reflex o Trendelenburg / Reverse Trendelenburg • Standard Accessories : o Five Sections Mattress : 1 set o Anesthetist Screen : 1 pcs o Padded Shoulder Support : 2 pcs o Padded Lateral Support : 2 pcs o Padded Lithotomy Crutches : 2 pcs o Padded Arm Rest : 2 pcs o Technical Specification : o Overall Length of table : 1950mm +_5% o Width of the table : 500mm +-5% o Height : 780 - 1030mm +-5% o TB / RTB : 30 degree o Flex / reflex : 80° / 220 ° o Side tilt : 20 degree

S.No.	Item		Specifications
			○ Kidney section : 125 mm manually ○ Leg Section ; 90 degree down ○ Head Section : 90 down and 90 degree UP. ○ Hi - low Lift : Electric Operated ○ European CE certification or USFDA certification or BIS certification ○ Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
3.	Delivery table with footstep**		<u>Specifications of Labour Table</u> • Obstetric labour table with three section table top, leg-end section can slide completely under the main section. • To obtain the labour position, pull out leg section manually and raise to level of body section. • To obtain delivery position, A small hand lever is used to release leg section • Permitting it to drop into position to telescope into body section. • Facility for Trendelenburg position, backrest adjustable on litho to my rods with straps. • A heavy SS sink is provided for drainage purpose. • European CE certification or USFDA certification or BIS / ISI certification Footstep • Overall appox size 505mmLx305mmW • First Step height 230 mm & second step size 450 mm • Step made of CRCA sheet fitted with aluminium tread flats by pop rivets • Finish should be pre-treated epoxy powder coating • Frame made of 1”x18G tubes fitted with PVC stumps. • Quality Certificate of manufacturer like OHSAS-18001, ISO 9001- 14001,9001-2008, 9001-13485 and CE certificate/US FDA/BIS should be attached to ensure quality otherwise the bid will not be considered
4.	Suction apparatus high vacuum**		<u>Specifications of Suction Machine with 02 Jars Electrical.</u> • Should provide 0-730 mm Hg ± 10 @ 60LPM, reusable, flutter free vacuum control knob, 60ltrs/min, tight fitting jar cap. • Should be fitted with wide mouthed 2 x 2 Ltrs. (Polycarbonate) with self sealing bungs and mechanical over flow safety device. • Dimensions to be Max : 43 x 30 x 68 cms

S.No.	Item		Specifications
			• Noise should not be more than 50 dB A ± 3 • Should maintain up to 36.5 deg temp and the heat disbursed through a exhaust fan. • Voltage corrector /stabilizer to allow operation at ± 30% of local rated voltage. Use of SMPS to correct voltage • Power consumption 200W, 230V, 50Hz, 2 ± 0.5 Amps, 200 watts • Electrical protection by resettable over current breakers or replaceable fuses, fitted in both live and neutral lines. • Autoclavable collection bottles, tapering connector, collection container, a vacuum gauge, lubricant, leak free NR valve and control knob to be provided. • European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
5.	Suction apparatus electrical		Specifications of Slow Suction Machine • The equipment should be a compact and lightweight having low vacuum & low flow performance • Should be equipped with an oil-free Rocker Piston Pump with bearings permanently lubricated • Should be noise and maintenance free • Should include with a 1.5 ltr Polycarbonate Collection Jar fitted with a float valve system, providing automatic shut off to avoid overflow and a bacterial filter • European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
6.	Mucus extractor with suction tube and foot operated suction machine**		• Portable and non-string pedal operation • Open end glass/fibre jar of about 1000 ml. • Capacity : 700 mm Hg ± 10 at 25LPM • With oil free Piston type pump • Shall have self sealing lids. • Noise level: <50 db A ± 3 • Should be compatible with other life saving equipments running parallel. • The unit should be cleanable with alcohol and/or other chemical agents.

S.No.	Item		Specifications
			• FDA (US)/CE (EU)/BIS approved. • Should have ISO 13485:2003; ISO 27427-2013; IEC-60601-1&2. • Supplier to perform installation, safety and operation checks before handover. • Certificate of calibration and inspection from the factory. • Training of users in operation and basic maintenance shall be provided. Advanced maintenance tasks required sh be documented • List to be provided of equipment and procedures required for local calibration and routine maintenance.
7.	Adult resuscitation kit**		Technical Specification of Emergency Resuscitation Kit with Trolley It should be steel tubular work trolley on four revolving castors two with break along with minimum following accessories as kit • Oxygen Cylinder • Crash Cart with Examination Lamp Attached • Ambu Bag Silicon-3 Nos. (Each One of Child/Adult/Infant) • Endotracheal Tube 6 Adult • Endotracheal Tube 6 Child • Airway 1 Set • Endotracheal Tube Stylet • Endotracheal Tube Cleaning Brush • B.P. Apparatus • Stethoscope • Suction Catheter • Infant Mucus • Disposable Syringe with Needle-1,2,5,10,20x10 Piece Each • I.V. Set-6 • Blood Set-6 • Micro drip Set-6 • Paedia drip Set-2 • Flow Meter-1
8.	Neonatal resuscitation kit**		

S.No.	Item		Specifications
			○ Oxygen Mask Child-2 ○ Oxygen Mask Adult-2 ○ Oxygen Cylinder Key-1 ○ European CE certification or USFDA certification or BIS certification ○ Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
9.	Foetal Doppler**		Specifications of Foetal Doppler & Monitor • Foetal Doppler, table model with digital display of FHR. The unit shall have S.S tube, Penhold transducer for O.P.D. and elastic belt flat transducer for continuous monitoring. The unit shall be fitted with hi/lo alarms for F.H.R. • The unit shall work on 220V AC 50 Hz supply mains as well as battery. • Should have 10" or more high resolution color TFT/LCD Display with tilt able screen for better viewing. • Should have the facility for dynamic data save. • Should display the monitoring information of last 24 hours is essential. • Should have special high sensitive watertight probe for better durability • Should have data storage with play back & print facility • Should have the low ultrasound power for the safety of the foetus • Should have automatic foetal movement detection with event marker. • Thermal printer with minimum 152MM paper width is essential for broader printouts • Standard configuration should be FHR, TOCO, Foetal Movement • Twin FHR monitoring is essential • Should be portable • Should supply foetal stimulator. • Built in rechargeable Li-on battery with back up of at least 3 hour. • Relevant IEC-60601-Part 1 & 2, certificates by a notified agency • Should work with input 200 to 240Vac 50 Hz supply
10.	Foetal monitor**		

S.No.	Item		Specifications
			• European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
11.	Stethoscope for Pediatric as well as adult		• Patient friendly Non-Chill Rim • Solid stainless steel / anodized aluminium chest piece • Frame should be stainless steel • Excellent Acoustic Diaphragm and comfortably fit with soft sealing ear tips • Anatomically correct headset & comfortably angled • Single lumen tubing in a variety of popular colours • Y PVC tubing • European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
12.	BP Instrument stand type		Sphygmomanometer –Stand Model • Should be portable mercurial type, stand model. • Should have ON and OFF provision for mercury reservoir. • Should have a measuring range from 0 to 300 mmHg. • Should be provided with adult arm cuffs of size medium & large and pediatric cuff, • The control valve should have a knurled thumb control device. The leak rate should not exceed 10 mm of mercury per minute. • The manometer scale markings and graduations should be engraved or etched and filled with pigments and it should meet the requirements of boil test. • The internal diameter of the manometer glass tube should be 4.1 ± 0.1 mm and the thickness not less than 2 mm. • Plastic parts, if any used should not crack, flake, peel or disintegrate in normal use. • The inflating rubber bag should be capable of withstanding an internal pressure of 450 mmHg without leaking. • The inflating bulb should be soft and should not have any joints or ridges. • The mercury used should be clean, double distilled and of 99.9% purity. • The fastening arrangements of the cuff should be of hook and loop type (Velcro)

S.No.	Item		Specifications
			• The threading and fastening arrangement of the cuff should show no sign of slip or failure when subjected to the maximum conditions. • The rubber tubes used should have an internal diameter of 3 ± 0.5 mm and the external diameter should not be less than 8mm. • The housing case should be of robust design. It should have press to release lock. It should have metal hinges. The tube should be secured with metal screws and clamps. It should have mechanism to hold the lid in right angles and should prevent accidental dropping. All parts should be replicable in case of breakage. • A cleaning brush to clean the manometer tube and a set of spare washers may be provided with each unit. • Should be mounted on good quality wheels. • The stand body shall be made of mild steel and powder coated. • European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
13.	BP Instrument table top model		Sphygmomanometer - Mercury Type • Should be Portable mercurial type. • Should have ON and OFF provision for mercury reservoir. • Should have a measuring range from 0 to 300 mmHg. • Should be provided with adult arm cuffs of size medium & large and pediatrics cuff. • The control valve should have a knurled thumb control device. • The leak rate should not exceed 10 mm of mercury per minute. • The manometer scale markings and graduations should be permanent and clearly visible and filled with pigments. • The internal diameter of the manometer glass tube should be 4.1 ± 0.1 mm and the thickness not less than 2 mm. • All plastic parts, if any used should not crack, flake, peel or disintegrate in normal use. • The inflating rubber bag should be capable of withstanding an internal pressure of 450 mmHg without leaking. • The inflating bulb should be soft and should not have any joints or ridges. • The mercury used should be clean, double distilled and of 99.9% purity. • The fastening arrangements of the cuff should be of hook and loop type (Velcro). • The threading and fastening arrangement of the cuff should show no sign of slip or failure when subjected to the maximum test conditions.

S.No.	Item		Specifications
			• The rubber tubes used should have an internal diameter of 3 ± 0.5 mm and the external diameter should not be less than 8mm. • The tubes should be fitted with male and female leur connectors. • The housing case should be of robust design. It should have press to release lock. It should have metal hinges. The tube should be secured with metal screws and clamps. It should have mechanism to hold the lid in right angles and should prevent accidental dropping. All parts should be replaceable in case of breakage. • A cleaning brush to clean the manometer tube and a set of spare washers may be provided with each unit. • European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
14.	Infant BP Instrument		Same as BP Instrument table top model but with infant size cuff
15.	Multi para pulse oxymeter**		Technical Specification of Pulse Oxymeter • Mains electricity (AC-powered) photoelectric device intended for the continuous transcutaneous measurement and display of haemoglobin oxygen saturation (SpO2). The signals, typically produced by light-emitting diodes (LEDs) and a receiving detector in a probe, or directly built-in, are used to make the measurements using the principle of spectrophotometry. The Oxymeter displays the SpO2 values and may calculate/display other parameters, e.g. pulse rate, electrocardiogram (ECG). The device is typically used at the bedside. Measurement and display of haemoglobin oxygen saturation (SpO2). • Continuously displays patient oxygen saturation in real time using an external probe on the skin. • SpO2 measurement range at least 40-70 and 70 to 99%, minimum gradation 1%. B) Accuracy of SpO2 better than + 1% for range 40-70 and better than + 3% for range 70-99. c) Pulse rate range at least 30 to 240 bpm, minimum gradation 1 bpm. (d) Accuracy of pulse rate better than + 5 bpm. e) Signal strength or quality to be visually displayed. f) Audiovisual alarms required : high and low SpO2 and Pulse Rate (operator variable settings), sensor disconnected, sensor failure, low battery. g) TFT Screen • Should have minimum 24 hrs trend memory for SpO2 & PR. • Easily accessible touch button to operate the machine. • In-built Software • Should be less than 5 kg. • Case is to be hard and splash proof. Display must allow easy viewing in all ambient light levels. Supplied in

S.No.	Item		Specifications
			protective case for clean storage and safe transport. • Noise (in dBA) <50 Dba • Heat Dissipation: dispersed through exhaust • Mobility: Mobile • Power Requirement: 220 to 240 V, 50 Hz • Battery: Internal, replaceable, rechargeable battery allows operation for at least four hours in the event of power failure. • Tolerance: Voltage corrector/stabilizer/UPS to allow operation at + 30% of local rated voltage. • Electrical protection by resettable circuit breakers in both live and neutral supply lines • Power: 50-100 W • Mains supply cable to be at least 3m in length. • Operating condition : Capable of operating continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances. • Cleanable with alcohol or chlorine wipes. • European CE (Notified body) certification or USFDA certification • ISO 80601-2-61-2011: Medical Electrical equipment - part 2-61 : Particular requirements for the basic safety and essential performance of pulse Oxymeter. Electrical safety conforms to standards for electrical safety IEC-60601-1, EMC Safety confirms to IEC 60601-1-2 standard requirement; • Manufacturer / supplier should have ISO 13485 certificate for quality standard.
16.	Nebulizer		• Should be lightweight, portable and compact. • Should have a dust filter. • Should be able to deliver a flow rate / 7 lpm • Should have air pressure / 35 psi. • Should have a check valve to protect the device against contamination due to backward inhalation • Should be compatible for continuous use • Should works on 200-240Vac/50Hz. • Should be supplied with nebulization accessory kit with mask for adult and paediatric – 2 nos. each • Nebulization mask for adult and paediatric – 10 nos. each • European CE certification or USFDA certification or BIS certification

S.No.	Item		Specifications
17.	Digital weighing machine adult		• Should have an accuracy of 500 gms. • Should be dial type having a magnifying lens to see the measurement. • Should measure a maximum weight of 150kgs. • Should have zero adjustment. • Should be Round shape of diameter 300mm (minor variations will be accepted) • Shall be made of Metal, epoxy powder coated with rust proof parts. • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
18.	Digital weighing machine Infant		• Should have 5 gm accuracy • Should have a minimum measuring capacity 25 gm • Should have easy to read LED display • Should measure a maximum weight of 20kgs • Should have zero calibration. • Should hold the measured value irrespective of the baby movements. • Should have electronic damping facility for eliminating the reading fluctuations caused by moving baby. • Weighing pan should be suitable for weighing new born babies and the construction should not allow the baby to slip from the tray. • The Tray should be made of SS/ fibre glass/acrylic • Should have a pan size of at least 50cms length, 20cms width and 8cms height. • The pan should have facility to measure the length of baby • European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
19.	Radiant warmer		1. It should be microcontroller based radiant warmer with manual and servo options. 2. It should have facility to display skin set, skin observed temperature in degree C and heat power separately. 3. Should have user friendly touch panel control. 4. It should have ceramic or quartz infrared or calrod heater. 5. It should have audio-visual alarm facility for overheating beyond set temperature range. 6. It should have alarm facility for patient temperature less than or greater than the required temperature i.e. above

S.No.	Item	Quantity	Specifications
			or below the set range. Machine should sense the skin probe failure and cut off the heater. 7. Warmer head should be rotatable in different direction, so as to allow taking X-ray. 8. It should have alarm for probe failure, power failure, system failure and heater failure. 9. Observation light of 90 to 100 foot candles or 1000 Lux (color temperature range 3700K to 5100K) should be provided for inspection 10. Battery backup for Power failure indication during power fail. 11. The desired temperature range from 25 to 40 degree C and settable temperature can be from 32 to 38 degC. 12. The resolution should be 0.1 degree C and accuracy should be 0.2 °C. 13. Should have a facility to lock the keyboard to avoid unwanted user modification of the set parameters. 14. The height of the warmer should be adjustable for different types of bed. 15. It should have separate bassinet trolley, bed should be tiltable and have provision for x-ray cassette holder, Mattress foam density should be minimum 25 kg/cm3, transparent collapsible side walls easily detachable for cleaning. Mattress size should be minimum 20"X30". 16. Should have a Feather Touch operation with large digital display and comprehensive alarms. Control Panel should be liquid proof and allow easy and hygienic disinfection. 17. Manual Mode can adjust Heater Output 10 -100 %, with 10% increment, an auditory and visual alarm shall be given at least every 15 min. 18. In manual mode, heater cut off / switch off , if the maximum irradiance at any point of the mattress area exceeds a total irradiance level of 10 mW/ cm2 (between 10 to 30 minutes). 19. Bed should be about 80 - 100 cms from the Floor and 80-90cms from the heat source. 20. Should have lockable castor wheels. 21. Green indicator light shall be provided to indicate that warmer is ready for normal use. 22. Markings on the bassinet and X-Ray cassette holder is mandatory to enable proper positioning of the baby while doing the X-Ray. 23. The size of the drop down sides should be such that it is 5" above the mattress surface and should be atleast 6mm thick; clear and transparent. 24. If there is more than 60% heater output for 10 minutes it should cutoff with alarm. 25. For the purpose of cable management there should be at least two number of tubing ports (edges covered by silicon rings) on the side walls. The height of the side walls should be minimum 110mm over the mattress. 26. X-Ray cassette tray should be at least 750X350mm and should adopt up to 20mm thick X-Ray cassette. 27. The bay bed should be crevice free for ease of cleaning, infection control. 28. The mattress used should be of biocompatible material.

S.No.	Item			Specifications
			29.	Thermistor based skin temperature probe should be small in size not more than 10mm diameter and 3-4mm thick to fix the probe firmly on the infant. Baby contact material should be biocompatible as per ISO10993 standard requirement. It should be insulated on one side and have well conducting non-rusting, non reacting metallic surface on the other side. Probe wire should be pliable, thin and soft. The attachment site of the probe with the wire should also be pliable and non stiff.
			30.	Should have Manual mode and Baby (Servo) mode settings.
			31.	Mode of operation should be clearly displayed.
			32.	In servo mode baby set temperature should be 32 to 38 deg C.
			33.	Users interface should have manual and Servo controlled temperature regulation.
			34.	LED Display and inbuilt software; Interruption and restoration of the power supply does not change the preset values. Devcie shall not overbalance when placed in any transport position of normal use on a 10° inclined plane from the horizontal plane.
			35.	Transformers of devcie shall be protected against overheating in the event of short circuit or overload of any output winding.
			36.	Patient leakage current should be less than 100 µA in normal condition.
			37.	Temperature on the baby mattress should not exceed 43 deg C when the warmer is operating under steady temperature condition.
			38.	Temperature of HEATER GUARDS should not exceed 85 °C in normal use.
			39.	The Temperature differences on the mattress shall not exceed 2 °C.
			40.	Dimensions (metric) specifications upto: 2000 mm (Height) X 900mm (Width) X 1100 mm(Length).
			41.	Atleast 60 degree angle adjustment must be possible in the heat source and it should provide shielding to the infant in case of breakage of tubes/bulbs, All surfaces to be made of corrosion resistant material.
			42.	Auditory alarm shall have a sound level of at least 65 dBA at a distance of 3 m from the front of the infant radiant warmer, and the sound level of the alarm shall not exceed 80 dBA on the mattress.
			43.	Should maintain upto 36.5˚C temp and the heat disbursed through an exhaust fan, so that effect of UV light is not disturbed.
			44.	Mobility: Yes, on castors (2 of the castors should have breaks; casotor size can be at least 4inch).
			45.	Should have standard IV pole(sturdy;non rusting; medical grade stainless steel;adjustable to a max height of 6 feet from the ground level), monitor tray(12X10 inches;270 degswivel;fixed at level of warmer display) and storage trays.
			46.	Spare Part : Skin temperature probes
			47.	Consumables : Thermal refelctor to fix the skin probe on baby.

S.No.	Item		Specifications
			48. Complete unit to be easily washable and sterilizable using both alcohol and chlorine agents. 49. Should be US FDA / EU (CE of class IIb) approved product. Shall meet IEC-60601-1-2:2007 Medical electrical equipment -- Part 1-2: General requirements for basic safety and essential performance - Collateral standard: Electromagnetic compatibility Requirements and tests (Or Equivalent BIS). Shall meet IEC60601-2-21: 2009 Medical Electrical Equipment – Part 2-21: Particular Requirement for the basic safety and essential performance of infant radiant warmers . Should meet IEC 60601-1:2005 standard requirements. 50. Baby contact material should be biocompatible as per ISO 10993 standard requirement. 51. Manufacturer should be ISO 13485 certified. 52. Availability of 5 amp/15 Amp. Electrical socket (2 nos) for each warmer. 53. Certificate of Calibration and inspection from the factory. 54. List of important spare parts and accessories with their part number and costing. 55. User training manual required. 56. List of important spare parts and accessories with their part number and costing. 57. User, Technical, Maintenance manuals to be supplied in English 58. Any warning/ precautions to be declared. **Energy Source:** a) Power requirements-220 to 240v, 50 hz b) Battery operated-Power failure indications during power fail. c) Tolerance:± 10% of input d) Protection-OVP, earth leakage protection. e) Power consumption-Maximum 800 watt
20.	Phototherapy unit		1. Phototherapy should be based on LED technology, which after filtering should provide a light of wavelength approximately 450 to 470 nm with peak wavelength of 450-460nm range. 2. Irradiance to be minimum 35 µW/cm2/nm at 40 cm height and UV should not exceed 10-4 W/m2 in 180nm to 400nm. 3. Digital Hour meter showing total exposure time for current patient to be clearly visible by operator. 4. Effective light field >700 cm2. 5. Lamp life should be minimum 20000 hours for LED and should have timer to indicate its usage. 6. Over temperature safety cut out to be included. 7. Up, down and tilting of head should be possible.

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8. The unit should be mounted with castor wheels with brakes.
9. Variation in intensity over 5-6 hours < 10%.
10. The irradiance ratio (min to max) shall be greater than 40 % on mattress.
11. Green indicator light shall be provided to indicate that equipment is ready for normal use.
12. Interruption and a restoration of the power supply do not change preset values. LED heat can be reduced by natural cooling.
13. LED should be protected from free fall.
14. It should not topple on 10˚ inclined angle.
15. The temperature of baby bed and metal surfaces should not exceed
16. 40˚C and 43˚C for other accessible surfaces.
17. There should be intuitive method to indicate the light surface is at the appropriate treatment distance.
18. Mobile stand with movable castors and height adjustment facility along with easy swiveling of source box. Unit can be used along with Infant care trolley, Radiant Warmer and Incubator.

<table>
<tr><td>Settings</td><td>UP/DOWN adjustment of Over Head Unit; The phototherapy unit should be able to provide effective treatment for beds and incubators of varying heights (generally 1.0 to 1.6m). Adjustment of light intensity may be provided.</td></tr>
<tr><td>User interface</td><td>Manual</td></tr>
<tr><td>Software and/or standard of communication (where ever required)</td><td>LED Display and inbuilt software</td></tr>
<tr><td colspan="2">Physical Characteristics</td></tr>
<tr><td>Dimensions (metric)</td><td>minimum spec: 1650mm Height X 750mm Width X 500mm Length</td></tr>
<tr><td>Weight (lbs, kg)</td><td><20 kg</td></tr>
<tr><td>Configuration</td><td>1. Clear cabinet for observation of infant.
2. Infant bassinette to be an integral unit which should be detachable.
3. Unit to provide shielding of infant in the event of bulb</td></tr>
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</td></tr>
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S.No.	Item		Specifications	
				breakage. 4. Bulb mount to have angle adjustment of at least 30 degrees. 5. All surfaces to be made of corrosion resistant materials. 6. Light unit tilting facility and height adjustment facility.
			Noise (in dBA)	<60dBA
			heat dissipation	The temperature of baby bed and metal surfaces should not exceed 40deg C and 43˚C for other accessible surfaces.
			Mobility, portability	Minimum 3 castors and at least 2 with brakes
			ENERGY SOURCE (electricity, UPS, solar, gas, water, CO2 ....)	
			Power Requirements	220 to 240V, 50 Hz
			Battery operated	NA
			Tolerance (to variations, shutdowns)	± 10% of input AC
			Protection	Electrical protection by resettable overcurrent breakers or replaceable fuses fitted in both live and neutral lines.
			Power consumption	Should not be more than 160 W
			Other energy supplies	Mains cable to be at least 2.5m length
			ACCESSORIES , SPARE PARTS , CONSUMABLES	
			Accessories (mandatory, standard, optional)	Complete set of replacement tubes to allow 3 months' continuous operation Two replacement sets of fuses, if replaceable type used.
			Spare parts (main ones)	No spares required
			Consumables / reagents (open, closed system)	Total 500 nos. Infant eye masks of both available sizes (term and pre term babies).
			ENVIRONMENTAL AND DEPARTMENTAL CONSIDERATONS	
			Atmosphere / Ambiance (air conditioning, Humidity, dust ...)	Capable of operating continuously in ambient temperature of 10 to 40˚C and relative humidity of 15 to 90% in ideal circumstances.
			User's care, Cleaning,	Complete unit to be easily washable and sterilizable using both

S.No.	Item		Specifications		
			Disinfection & Sterility issues	alcohol and chlorine agents.	
			STANDARDS AND SAFETY		
			Certificates (pre-market, sanitary, ..); Performance and safety standards (specific to the device type); Local and/or international	• Should be FDA / CE approved product • Shall meet IEC-60601-1-2:2007 Medical electrical equipment -- Part 1-2: General requirements for basic safety and essential performance – Collateral standard: Electromagnetic compatibility - Requirements and tests (Or Equivalent BIS) • Should meet IEC 60601-1:2005 standard requirements • Shall meet IEC 60601-2-50:2009 Medical Electrical Equipment – Part 2-50: Particular Requirement for the basic safety and essential performance of infant phototherapy equipment; • Manufacturer should be ISO 13485 certified	
			TRAINING AND INSTALLATION		
			Pre-installation requirements: nature, values, quality, tolerance	Supplier to perform installation, safety and operation checks before handover.	
			Requirements for sign-off	Certificate of Calibration and inspection from the factory.	
			Training of staff (medical, paramedical, technicians)	Training of users in operation and basic maintenance shall be provided	
21.	Multipara bed side monitor (6 parameter). with central nursing station**		1. Should have facility for printing ECG at 25mm/sec and 50mm/sec speed. 2. Should have facility for charging from both 12V DC & 220V AC. 3. Should be supplied with. 4. Pulse oximeter probe. 5. ECG cable -12 lead. 6. Temperature probe. 7. NIBP (non-invasive blood pressure) probe All probes should be supplied in 2 pairs, should be re-usable and should include adult, pediatric& neonatal size cuff/leads. The material of the probe should be such that it is non-breakable.		

S.No.	Item		Specifications
			8. Capable of saving data for min 24 hrs. 9. Rates for consumables should be offered in price bid. 10. Optional item to be quoted: invasive blood pressure-monitoring module complete with reusable transducer. 11. User operated 1mV ECG 12. User interface -Manual or touch screen with central monitoring system. And patient monitors should be compatible and networked according to central monitoring system specifications 13. Audio Visual alarms required: high and low levels for each parameter (operator variable settings), sensor/wire/probe disconnected, low battery. 14. Dimensions- Screen size minimum: 10". 15. Weight (lbs, kg) <6kg. 16. Configuration- Case is to be hard and splash proof. Display must allow easy viewing in all ambient light levels. Cable connectors to be designed so as fit correct socket only. 17. Noise (in dBA) <50 dB; Lead disconnection Alarm > 65 dB. 18. Heat dissipation- Should maintain nominal Temp and the heat should be disbursed through an exhaust cooling fan. 19. Should be Supplied in protective case for clean storage and safe transport 20. Battery charger to be integral to mains power supply, and to charge battery during mains power operation of unit.Battery powered, silence able alarm for power failure. Internal, replaceable, rechargeable battery allows operation for at least one hour in the event of power failure. Battery backup of minimum 100 minutes. 21. Voltage corrector/stabilizer to allow operation at ± 30% of local rated voltage. 22. Electrical protection provided by fuses in both live and neutral supply lines. 23. Power consumption <120Watt. 24. Accessories & Spares- 2 pairs, 12 lead ECG cable. 2 packs of 100 disposable ECG connection electrodes. Two sets of reusable SpO2 probes including adult, paediatric & neonatal probes. Two sets of NIBP cuffs of each size. Two external skin temperature probes. 25. Complete unit to be easily washable and sterilizable using alcohol and other chemical agents. 26. FDA (US) and EU CE notified body approved and BIS/ISO 13485:2003; ; IEC-60601-1-2:2007; IEC 60601-1-8-2006; IEC 60601-1-SER-Ed 1.0-2011; IEC/TRF 60601-1-8 Ed4.0-2010; ISO 13485; ISO 80601-2-56-2009 (Thermometer); ISO 80601-2-61-2011 (SpO2). 27. Supplier to perform installation, safety and operation checks before handover. 28. Training of users in operation and basic maintenance shall be provided. 29. List to be provided of important spares and accessories, with their part numbers and cost.

S.No.	Item		Specifications
			30. Certificate of calibration and inspection to be provided. 31. Documentation- a. User, technical, maintenance and service manuals to be supplied along with machine diagrams. b. List of equipment and procedures required for local calibration and routine maintenance. c. Certificate of calibration and inspection
22.	Air curtain at entrance for O.T., labour room, ICU and SNCU		Technical Specification of Air Curtains • Aesthetically designed with the latest technology. This is an ideal solution wherever transparent air insulation/ barrier/ curtain is required. Most common application areas include Air Conditioned Showrooms, restaurants, Hotels, Hospitals Computer Rooms, Cinema Halls, Pharmaceuticals, Biological & Electronic Industries. It provides an effective insulation to conserve energy by preventing temperature loss in controlled atmosphere areas and maintains a high level of cleanliness by inhibiting the movement of dust particles across it. It consists of a sturdy heavy duty line flow fan counterbalanced for vibration free operation and sturdy, thick PCRC sheet duly powder coated body with clamps to mount on the wall or door panel. It gives a thick air curtain with total air flow capacity varying according. • To the sized depicted as follows. Supplied complete with Cord & Plugs. Suitable to work on 220 V door, forms and invisible curtain of continuous air and thus prevents escape of conditioned air and entry of outside hot, humid, dirty and unwanted polluted air. AICIL Air curtains are tailor made units and hence come in all size ranging from 24" to 72" (2' to 6') in single units. • The cabinets of air curtain should made of cold rolled mild steel sheets. The blowers and made of high quality aluminium sheets. Duly balanced both statically as well as dynamically on computerized digital balancing machines designed to provide uniform air with minimum noise and no vibration. The Motor used are of continuous rating with sealed ball bearing. • These units should be available in normal velocity (7 to 9 meters / second) and high velocity (10 to 12 meters/ second.)
23.	High pressure steriliser horizontal		Technical Specification of Horizontal High Pressure Steam Sterilizer The Instrument should have the following features • Triple walled with leak proof organ arc welding. • Outer & middle jacket made of thick stainless steel jacket should be insulated by high grade glass wool to minimize the temp. Loss. • Inner chamber, jacket made of heavy duty stainless steel high – grade 304 quality.

S.No.	Item		Specifications
			• All Sterilizer hydraulically tested up to 40 PSI. • Steam generator Boiler made of stainless steel 304 grades with argon arc welded without sharp edge fitted with ISI Mark Heating Element Flange type inside the boiler. • Door has single piece made of thick S.S. Radial Locking System all around. • Top fitted with reputed make high pressure gauge safety .valve with multy port valve. • Fitted with neoprene silicon joint less gasket • Fitted with Automatic pressure stat switch set of any desire pressure. • Fitted with double safety valve & water level indicator cut-Off device to protect the Heating Element from burning. • Boiler front folding plate system for easy cleaning on the deposited scales on the element & the walls. • Water inlet & drain Valve is also provided fitted in the boiler. • Sterilizer mounted on tubular type steel frame with leveling screw • Fitted with digital indicator for indicating the temperature inside the chamber with calibration report. • Working pressure 5 to 20 PSI, the unit is complete with automatic Low Water cut off device. • Power suitable to work on 415 volts , single phase 50 Hz AC supply Only • Size 300x600 mm • European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
24.	High pressure steriliser vertical**		Specifications of Vertical Steriliser (high Pressure) • Dia 300/Depth 500/ Elements-2/ Load 2KW • The operating pressure should be adjustable 15-20 PSI • Triple chamber with inner chamber made of thick SS jacket. • Should be hydraulically tested to sustain up to 2.5 times of working pressure. • Outer chamber made of SS reinforced with MS Sheet. Lid should be made of thick SS plate single piece and closed by wing nuts arrangement. • Joint less neoprene gasket should not allow any leakage. • The equipment should be fitted with double safety valve, water level indicator, water inlet and drain valve. • Should be supplied complete with cord 7 plug.

S.No.	Item		Specifications
			• Size 12x20 inch • Power requirements- 220V, Single Phase, 50 Hz, AC • European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
25.	Dressing drums SS of different sizes**		Dressing Drum • It should be ISO/CE mark and sizes, 15"x12", 14x9, 9x9, 6'x6h. And Large size should be 12 x 15 inch. Should be made of High Grade Seamless SS. Should have suitable holder/handle for operational ease.
26.	Ceiling shadowless light for O.T. **		1. Double dome 2. Intensity Control in 9 steps for indiviual domes 3. Height Adjustment :600mm 4. Action Radius :1850mm 5. Possible Movements :Radial, Angular & Axial 6. Colour Temperature :4500K and above 7. LED technology: minimum 40,000 hours lamp life 8. Intensity, brightness, contrast and power switch to be made available on handle/wall-check. 9. Focal distance(d1+d2)=0.8 to 1.2 m 10. Temperature rise on the keep of surgeries to be less than 10° 11. CR± approx. 95 or more 12. 360° rotation for both arms 13. User's interface Manual 14. Heat Dissipation: Should maintain nominal Temp and the heat should be disbursed through an cooling mechanism 15. Power Requirements Recharging unit: Input voltage- 220V-240V AC, 50Hz 16. Tolerance (to variations, shutdowns) Voltage:±10%,Frequency:±2% 17. Should have over-charging cut-off with visual symbol. 18. Operating condition: Capable of operating continuously in ambient temperature of 10 to 40˚C and relative humidity of 15 to 90% in ideal circumstances.

S.No.	Item		Specifications
			19. Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50˚C and relative humidity of 15 to 90%. 20. Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover. 21. Should be US FDA/CE and ISO 13485 approved product. 22. Pre-installation requirements: nature, values, quality, tolerance a. Availability of 5 amp socket; b. Safety and operation check before handover; 23. Training of staff (medical, paramedical, technicians) a. Training of users on operation and basic maintenance; b. Advanced maintenance tasks required shall be documented
27.	Portable shadowless light for labour room**		1. Dome Head :515mm Dia 2. LED lights-2 nos 3. Lockable castor stand with minor dome 4. Light intensity at 1 mt. :1,00,000 Lux 5. Intensity Control :Continupus 6. Height Adjustment :600 mm approx 7. Action Radius :1250mm 8. Possible Movements :Radial, Angular & Axial 9. Colour Temperature :4500K or above 10. Temp. rise in field :3°-6° c from Amb.Temp 11. Control Panel at the dome 12. CR± 95000 13. Lamp life:40,000 hours 14. Battery back-up:1 hour 15. Auto-power off and over-charging cut-off. 16. Users interface Manual 17. Heat Dissipation: Should maintain nominal Temp and the heat should be disbursed through an cooling mechanism 18. Recharging unit: Input voltage- 220V-240V AC, 50Hz 19. Battery operated: Yes; Rechargeable battery at the base with the frame. 20. Should have over-charging cut-off with visual symbol.

S.No.	Item	Specifications
		21. Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances. 22. Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. 23. Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover. 24. Should be FDA/CE and BIS/ISO 13485 approved product. 25. Electrical safety conforms to the standards for electrical safety IEC 60601-1General requirements(or equivalent BIS Standard) 26. Shall meet internationally recognised for Electromagnetic Compatibility(EMC)and Electromagnetic Interference(EMI) for electro medical equipment:IEC 60601-1-2 27. Pre-installation requirements: nature, values, quality, tolerance a. Availability of 5 amp socket; b. Safety and operation check before handover; 28. Training of staff(medical, paramedical, technicians) a. Training of users on operation and basic maintenance; b. Advanced maintenance tasks required shall be documented 29. Documentation: Should provide 2 sets(hardcopy and soft-copy) of:- a. User, technical and maintenance manuals to be supplied in english/ hindi language along with machine diagrams; b. List of equipment and procedures required for local calibration and routine maintenance; c. Service and operation manuals (original and copy) to be provided; d. Advanced maintenance tasks documentation; e. Certificate of calibration and inspection. • European CE certification or USFDA certification or BIS certification
28.	Instrument steriliser	• SS make • Different Size 12" x 8" , 18" x 12" • To be minimum 40 Kw Heating capacity total • European CE certification or USFDA certification or BIS certification
29.	Gynaec electric cautery**	1. The unit should have mono-polar, bi-polar modes and underwater cutting.

S.No.	Item		Specifications
			2. The unit should have separate generator for mono-polar and bi-polar. 3. Should be compatible for both open and laparoscopic surgery. 4. Should have facility to connect two mono-polar electrodes. 5. Should have separate digital display of power settings for bipolar and mono-polar cut and coagulation modes. 6. Should have return electrode contact safety. 7. Should have different audible alarm for cut and coagulation modes. 8. Should have maximum range mono-polar cut power of at least 300 Watts variable in Steps of 2 watts in lower power and 5, 10 watts in high power.. 9. Should have mono-polar coagulation power 120 Watts's variable in steps. 10. Should have maximum bipolar coagulation power of at least 50 in steps. 11. The unit should be provided with suitable power cord and should be compatible with Indian standard wall socket. 12. Should have a volume control for the audible alarm. 13. Should be supplied with reusable flexible silicon rubber patient return plate with return electrode safety 1 No. 14. The performance of the unit should not be affected by electro-magnetic interference radiated or conducted through power lines from another device. 15. The working of the equipment should not interfere with the functions of other devices. 16. Standard accessories to be supplied along with each equipment a. Should be supplied with disposable 3 pin hand pencil 10 nos. with cable. b. Should be supplied with reusable mono-polar active handle with cable compatible for foot operation. (With complete set of electrodes) - 5 nos. c. Should be supplied with reusable insulated bayonet shaped bipolar hand piece with cable compatible for foot operation - 2 no. d. Should be supplied with color coded pedals water proof foot switch for mono polar and bipolar. e. Additional Patient Plate Cable-1 No 17. Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover. 18. Standards & Safety : a. Should be US FDA or European CE approved (Notified Body) b. Should meet internationally recognized IEC 60601-1-1, IEC 60601-1-2, IEC 60601-2-2 , IEC 60601-1-6, and IEC 60601-1-8 standard. c. Manufacturer/Supplier should have ISO 13485 certificate for quality standard. 19. Documentation:

S.No.	Item		Specifications
			a. User, technical, maintenance and service manuals to be supplied along with machine diagrams. b. List of equipment and procedures required for local calibration and routine maintenance. c. Certificate of calibration and inspection. 20. Any warning signs would be adequately displayed. 21. Operating condition: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90% in ideal circumstances. Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.
30.	Oxygen cylinder B type		Oxygen Cylinder B-Type • Should be Color coded, light weight. • Aluminium alloy oxygen cylinder for providing oxygen therapy of total capacity of 4 cu M. • Mounted with pressure reducer and flow-meter provision of capacity upto 15 litres per minutes and outlet for secretio aspiration. • Should have membrane pressure reducer with manometer complete with flow meter (0-15 litres/minute) and humidif bottle. • Should be seamless cylinder of water capacity 10 liters. • Should have flowmeter for controlling inflow of oxygen. • Should contain capacity of 4 cu M. • Should be supplied with its trolley. • Should be having spare humidifier, key and flow meter. • Cylinder should have ISI Mark and ISO certificate for quality standard or BIS, IS 3224. • Cylinder should have explosive safety certificate and should be provided along with each cylinder during installation

S.No.	Item		Specifications
			• Should have certificate of calibration, PESO Certificate and inspection from the factory. • Should provide training to the users who are in operation. • Should have warranty of 10 years. • Color codes to be displayed on the cylinders.
31.	Nitrous oxide cylinder B type		Specifications of Nitrous Oxide Cylinder • Should be Color coded, light weight. • Aluminum alloy nitrous oxide cylinder for providing N2O therapy of total capacity of 4 cu M. • Mounted with pressure reducer and flow-meter provision of capacity upto 15 litres per minutes and outlet for secretio aspiration. • Should have membrane pressure reducer with manometer complete with flow meter (0-15 litres/minute) and humidif bottle. • Should be seamless cylinder of water capacity 10 liters. • Should have flowmeter for controlling inflow of nitrous. • Should contain capacity of 4 cu M. • Should be supplied with its trolley. • Should be having spare humidifier, key and flow meter. • Cylinder should have ISI Mark and ISO certificate for quality standard or BIS, IS 3224. • Cylinder should have explosive safety certificate and should be provided along with each cylinder during installation • Should have certificate of calibration, PESO Certificate and inspection from the factory. • Should provide training to the users who are in operation. • Should have warranty of 10 years. • Color codes to be displayed on the cylinders.
32.	Regulator and flow meter for medical gas		20,000 Kpa @ • Inlet Pressure 15ºC • InletPin Indexed Yoke • Flow Settings (LPM)- 0.25, 0.5, 1, 2, 3, 4, 6, 8, 10, 15, 25 • Maximum Outlet Pressure 400 Kpa • Weight (Grams) 320 • Should be brass body all metal parts that channel the gas stream are brass (no aluminium) • Sintered metal filter between gas source and seat.

S.No.	Item		Specifications
33.	ECG machine**		• Should be 12 - channel portable ECG machine with simultaneously acquisition of leads. • Should be portable, Light weight not more than 4.5 Kgs. • Should have at least 3.5" or more Color LCD Display • Should have full QWERTY hard keyboard to enter the patient data conveniently. • Should have single button operation. • Should have Measurement and interpretation software. • Printing of Interpretation and waveform should come on single sheet of paper. • Should have paper size of at least 110 mm X 70 mm and should be Z fold. • Should have Recording speed selection of 5, 6.25,10,12.5, 25 & 50 mm/sec • Should have recording modes Manual, Automatic, Rhythm. • Complete digital filters, avoids baseline drift, AC (On/Off) and EMG (25Hz/35Hz/45Hz/OFF) • Interference, Low pass filter (150Hz/100Hz/75Hz), DFT Filter: 0.05/0.15/0.25/0.5/0.67Hz. • ECG Machine should have CMMR ≥115dB • Should have 24bits A/D Converter. • 12 Channel type • Should have Sample rate of 1000Hz/Channel, 10,000 Hz for pacemaker detection. • Should have single and 3 Channel selectable rhythm leads. • Facility to enter patient information (Name, age, sex, height, weight, Blood pressure, doctor's name, Hospital's name) which get updated in system and is recorded on the recorder thermal paper. • Internal Patient memory function should save 200 patient ECG data. • Should have SD CARD and USB port for data transfer and Printer connectivity. • Inbuilt measurement and interpretation software and tested the same from AHA/MIT Database. • Should have option to connect with Barcode reader. • Should have option to convert the file into PDF format to save in USB Drive and SD card for data transmission from machine to PC. • Should have option to upgrade for data transfer to PC thru WIFI and LAN • Should have IEC 60601 certifications.Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001-14001/9001-2008/ 9001-13485 and European CE certification or USFDA certification or BIS certificationshould be attached to ensure quality • Should have Inbuilt lithium –Ion battery with upto 2 hours of backup. • Should have UL and US FDA Quality certifications. • Should be Supplied with Following Accessories

S.No.	Item		Specifications
			• Limb Electrodes (Set of 4) – 1 No. • Chest Electrodes for Child/ Paed (Set of 6) – 1 No. • Chest Electrodes for Adults (Set of 6) – 1 No. • ECG Cable (10 Leads) – 1 No. • Power Cord -1 No.
34.	Paediatric ventilator for ICU**		1. Should have facility for Invasive and Non-Invasive ventilation. 2. Microprocessor control with external compressor based ventilator suitable for neonatal and paediatric ventilation. 3. Should have modes of ventilation equipped with newer modes of ventilation: a. Assist/ Control b. Volume control c. Pressure control d. Pressure support e. SIMV with pressure support (Pressure and volume control) f. PEEP g. Inverse ratio Ventilation h. Non-invasive ventilation-BIPAP, CPAP i. Apnea ventilation, user selectable, volume & pressure control; 4. Should have built in color screen TFT/LCD display of minimum 10” for display of waveforms and monitored value; 5. Should have inbuilt facility to upgrade with EtcO2 6. Should have facility to measure and display of the following parameters a. Airway Pressure (Peak & Mean) b. Tidal volume (Inspired & Expired) c. Minute volume (Inspired & Expired) d. Respiratory mechanic

S.No.	Item		Specifications
			e. Spontaneous Minute Volume f. Total Frequency g. FiO2 dynamic h. Intrinsic PEEP i. Plateau Pressure j. Resistance & Compliance k. Use selector Alarms for all measured & monitored parameters l. Occlusion Pressure m. Pressure Flow & Volume curves 7. Automatic compliance and leakage compensation for circuit and ET tube 8. Should have facility of log book, for events and alarms with date & time 9. Should have following setting; a. Tidal volume (Minimum 2ml, Maximum up to 2000ml); pre-set range for both neo-natal &paediatric modes to be provided b. Inspiratory pressure (up to 60cm of H2O) c. Respiratory rate 1 to 80 bpm; d. Apnea back up rate e. CPAP/PEEP; f. Pressure support; g. FiO2 setting range between 21% and 100%; h. Pause time; i. Pressure/flow Trigger; j. Inspiratory flow up to 1-20 LPM; 10. Oxygen cylinder/central pipeline connector/ (to be supplied along with the machines) should be compatible with ventilator. 11. Disposable Heat Moisture Exchanger, qty 100 to be supplied with unit 12. User interface should be manual and automatic; also the software should be inbuilt, 13. Should be convenient and quick USB interface. 14. **Accessories**: a) Full face mask- 5 Nos each of 0,1 and 3 b) Nasal cannulae for neonates- 5 nos c) Reusable breathing circuit of silicone material (5Nos)

S.No.	Item		Specifications
			d) Air & oxygen hose- 1 each 15. Should be less then 50kg including trolley. 16. Should have compatible hanged arm for holding the circuit 17. Should have caster with braking system. 18. Noise of device operation max-50dbA 19. Should have audio visual alarm for battery low, source gas low and high/low pressure in the breathing circuit or source gas inlet. 20. Should maintain nominal Temp of the control unit and the heat should be disbursed through an cooling mechanism 21. Alarm volume-min. 65 dB 22. **Standards & Safety** : a) FDA (US)/CE (EU) from authorized third party and BIS/ISO 13485 b) Relevant IEC-60601-Part 1&2, certificates by a notified agency. c) Manufacturer/Supplier should have ISO 13485 certificate for quality standard 23. **Documentation**: Should provide 1 set (Hard Copy) to user and 1 Set (Soft copy) by User, technical, maintenance and service manuals to be supplied along with machine diagrams. a. List of equipment and procedures required for local calibration and routine maintenance. b. Certificate of calibration and inspection. 24. **Energy Source:** a. Power Requirement**:** Input voltage 220 VAC, 50Hz a) b. Battery powered, silence able alarm for power failure. c. Battery charger to be integral to mains power supply, and to charge battery during mains power operation of unit. d. Internal, replaceable, rechargeable battery allows operation for at least four hour in the event of power failure. 25. Should have Electrical protection, resettable over current breakers or replaceable fuses (fitted in both live and neutral lines). 26. Any warning signs would be adequately displayed. 27. **Storage condition**: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%.

S.No.	Item	Specifications
		28. **Operating condition**: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%. 29. Supplier to perform installation, safety and operation checks before handover. 30. Training of users in operation and basic maintenance shall be provided. Advanced maintenance tasks required shall be documented.
35.	Examination table SS with foot step	• Dimensions: 1830mm (L) 570mm (W), 820mm (H) ±5% • Upper section should be : 1230mm (L) 450mm (W)X610mm (H) with three sliding drawers with separate three doors. • The main top frame made of rectangular tubes of 18 G ERW tubes. The Top Frame shall be reinforced with horizontal supports at the middle width wise (mm three). • The top sheet made of CRCA (Ms) sheet of 18 G. double pressed bent on three side and reinforced with angles supports at the middle. A rubber foam padded with leather rexine cover shall be provided in 2 sections which can be fixed by strips from underneath the table as per dimensions of the table (64mm thickness). • Body frame work should be from CRCA sheet. • Couch should be fitted with mild steel legs. • Headrest should be adjustable by gas spring. • BP apparatus tray should be provided. • Finish should be pre-treated& powder coated. • The materials from reputed companies shall be used. • European CE certification or USFDA certification or BIS certification Foot Step • Overall appox size 505mmLx305mmW • First Step height 230 mm & second step size 450 mm • Step made of CRCA sheet fitted with aluminium tread flats by pop rivets • Finish should be pre-treated epoxy powder coating • Frame made of 1”x18G tubes fitted with PVC stumps. • European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality

S.No.	Item		Specifications
36.	Delivery Instrument set (Scissor, artery forceps, cord clamp, sponge holding forceps, urinary catheter, bowl for antiseptic lotion, speculum, kidney tray)		• SS Make rust free metals • Ultrasonic Cleaned • Dull-Polished • ISI certification
37.	Episiotomy Instrument set (Episiotomy scissor, kidney tray, artery forceps, allis forceps, sponge holding forceps, needle holder, needle (round body and cutting), chromic catgut no. 0, thumb		• • SS Make rust free metals • Ultrasonic Cleaned • Dull-Polished • ISI certification

S.No.	Item		Specifications
	forceps)		
38.	MVA/ EVA Instrument set (Speculum, anterior vaginal wall retractor, posterior vaginal wall retractor, sponge holding forceps, MVA syringe and cannulas, MTP cannulas, small bowl of antiseptic lotion)		• • SS Make rust free metals • Ultrasonic Cleaned • Dull-Polished • ISI certification
39.	PPIUCD Instrument set (PPIUCD insertion forceps, Cu IUCD 380A/ Cu IUCD 375 in a sterile package)		• SS Make rust free metals • Ultrasonic Cleaned • Dull-Polished • ISI certification
40.	Outlet forceps		• SS Make rust free metals • Ultrasonic Cleaned • Dull-Polished • ISI certification
41.	Digital thermometer		• The system should have minimum 4 digit display with 0.1 increment • Should have degree Celsius and Fahrenheit display • Measurement Accuracy: ± 0.10C (32.0 to 42.0 0C) i. ± 0.2 0 F (89.6 to 107.6 0 F) • Measurement Range: 32.0 to 42.0 0C (89.6 to 107.60F) • The sensing unit should be thermistor or equivalent

S.No.	Item		Specifications
			• Should work with a battery and lasts for a minimum measurement of 1000 readings (10 min operation each)
42.	Ventouse (for vaccum extraction delivery)		• Should be Oil-free vacuum pump, maintenance-free • Should be High level of under-pressure- at-least 93 kPa/700 mmHg (93% of vacuum). • Should be Simple operation by means of foil-keyboard keys with acoustic signal and Visual light indication of achieved under-pressure level. • Should have Very low noise level. • Should have reliable protection system against reservoirs overfilling • Should have safety vessel • Should be suitable for multi surgical and Vacuum assisted delivery extraction mode • Should have automatic under-pressure rise • Should have Unbreakable autoclavable vessels for secretion with volume • Set of stainless steel metal cups size 40mm, 50mm, 60mm, metal occipito-posterior cup 50mm. (03 each) • Set of medical grade silicon rubber cups 50mm and 60mm (03 each) • One caesarean-aid cup 50mm or more. • Cups should be compatible with all vacuum sources. • Electrical Requirement – 220-230 volts, 50Hz • Should be High suction output – at least 40 l/min • Should have possibility of all functions operation by means of foot control • Should be provided with additional silicone suction hoses. • Should be provided with dedicated SS trolley • Should be US FDA or European CE or BIS approved. • Manufacturer or supplier should be ISO13485 certified. •
43.	Infusion pump		• Should be operated on drip rate Peristaltic finger pump method. • Should compatible with most of the IV set (macro/micro drip sets). • Should have the following flow rates. • IV Set ml/hr drops/min 15 drops/ml 3~450ml/hr 1~100drops/min 20drops/ml 3~450ml/hr 1~100drops/min 60drops/ml 1~100ml/hr 1~100drops/min • Should have a flow rate accuracy of ±10% and drip rate accuracy of ±2%. 6. Should have a volume infused display from 0 to 999.9ml.

S.No.	Item		Specifications
			• Should have a purge and KVO facility. • Should have an audible and visual alarm for occlusion pressure, air alarm, door open, empty, low battery • Should have a LCD display with backlight and graphical display of infusion Should have a minimum 2hr battery back up at highest delivery rate. • Should work with input 200 to 240Vac 50 Hz supply. • Should have safety certificate from a competent authority CE / FDA (US) / STQC Certificate
44.	MTP set with karmon's suction canula and MVA syringe		• • SS Make rust free metals • Ultrasonic Cleaned • Dull-Polished • ISI certification
45.	PN sterilisation		• SS Make rust free metals • Ultrasonic Cleaned • Dull-Polished • ISI certification
46.	Caesarean Section		• SS Make rust free metals • Ultrasonic Cleaned • Dull-Polished • ISI certification
47.	Suture removal		• SS Make rust free metals • Ultrasonic Cleaned • Dull-Polished • ISI certification
48.	Suturing tray		• SS make sterilisable
49.	Anaesthesia trolley and General anaesthesia kit**		Boyle's Apparatus with Monitor Module • The Trolley should be made of Powder Coated Rigid Steel Sections, mounted on Anti-Static Rubber Castors. • Should be Gas Specific (Pin-Indexed) Yokes with clamping bars, two each for Oxygen and Nitrous Oxide. • Two Pressure Gauges each for Oxygen and Nitrous Oxide, fitted at convenient angle. • Completely encased, Detachable Pneumatic Circuitry. • Twin Canister Circle Absorber System, which should be Transparent & Reversible with swiveling facility. • Redesigned heavy duty Pressure Regulators for efficacy and reliability -- 0 2 Nos. each for Oxygen & Nitrous Oxide.

S.No.	Item	Quantity	Specifications
			• OXYGEN FAILURE PROTECTION DEVICE (OFPD): Should works as a true Fail-Safe-System as it should allows flow of Nitrous Oxide only in presence of Oxygen at Rotameter Level, thus locking the flow of Nitrous Oxide in absence of flow of Oxygen through its Rotameters. • OXYGEN RATIO CONTROLLER (ORC): In the ORC there should be a Slave Valve pneumatically linked to two Pressure Balancing Diaphragms of Nitrous Oxide & Oxygen guarantees a minimum delivery of 25% Oxygen Concentration. • ALARM: Audio-Visual-Alarm should activated if flow of Oxygen falls below 1LPM. • ROTAMETERS: Shouldprovidelong (230mm) Rotating Bobbin Flow meters taper tubes, accurately calibrated in double/triple scale to ensure accuracy and clarity in reading. • OXYGEN:100ml/min. to 8 LPM. Nitrous: 200ml/min. to 12 LPM. • AIRWAY PRESSURE MANOMETER:ShouldbeSwivel Type Outlet-cum-Airway Pressure Manometer Assembly. • EMERGENCY OXYGEN: Emergency Oxygen Flush Button Should be provided at Table Top level on the front. • VENTILATOR DRIVING SOURCE:A Quick-fit System Should be provided for driving Ventilator. • VAPORIZER:Provision for incorporating Vaporizer of Users Choice in the Back-Bar. • Should provide NON-RETURN CUM PRESSURE RELIEF VALVEforMinimum risk of back flow of gases. The Relief Valve Should blows when pressure exceeds 100 cm H2O. • Should provide PATIENT CIRCUIT:A) Standard Magill's Circuit-01 No.each for adult &Pediatric, B) Heidbrink Valve-01 No., C) Bag-Mount-01 No., D) Antistatic Face Mask-02 Nos.(Adult &Pediatric), E) 2 Ltrs. Rebreathing Bag-02 Nos., F) Complete Closed Circuit 01 No.. • TABLE TOP: Guarded Table Top Should be provided with a Stainless Steel Tray. • DRAWER: Sufficient space should be provided in storage drawer to accommodate all accessories. • INSTRUMENT TRAY: Top Tray should be provided at eye level for keeping Monitoring Equipments. • SHOULD PROVIDE IN BUILT ACCESSORIES: like RIGID Top Tray for Monitors load capacity 20 Kg or more. • Two built-in self- sealing Oxygen Outlets (4.22 Kg/cm2) for driving Ventilators etc. Space for Ventilator (Ventilator at extra cost) • Monitor (To be kept at the top of anaesthesia Machine) ○ Should be suitable for adult, paediatric, neonatal patients monitoring. ○ The monitor should be European Certified/ US FDA Approved towards highest standard of quality. ○ Manufacturer/Supplier should have ISO 13485 certificate for quality standard.

S.No.	Item	Quantity	Specifications
			○ Should be suitable for adult, paediatric, neonatal patients monitoring. ○ Monitor should have facility to display ECG, RR, HR, SPO2, NIBP, low perfusion state as Standard Parameters with built in rechargeable battery backup of at least 2 hrs. & recorder for continuous operation. ○ Display : Touch Screen Colour TFT Display of size not less than 12" . Should display atleast 7 waveforms of selected parameters simultaneously. ○ It should be able to analyse arrhythmia & ST segments. ○ Monitor should have large font display and inbuilt thermal printer. ○ It should be able to display the interactive relationship between HR, Respiration & Oxygen parameters observing the respiration, clinically termed as OxyCRG. ○ Should be able to store & display data upto 120 hrs. Of graphical trends of all parameters and upto 60 events with waveform. ○ The monitor should have built in facility connectivity to Central Station through Ethernet Card. ○ Provision for Universal Serial Bus port for software upgrade. ○ Should have battery backup of 120 Min. ○ Should have port for Central Monitor.
50.	Microscope binocular**		Technical Specifications of Binocular Microscope • A microscope with a head that has two eyepiece lenses where the two eyepieces view through a single objective lens. • The distance between the two eyepieces, should be adjustable to fit individual users. • Microscopes should be modular in the sense that the same body can be used with different bases and vice versa. • Microscope base should incorporate an adjustable arm or boom and enables the body to be aligned in a variety of different positions. • An adapter kit designed to enable a camera to fit on to the Binocular port of the microscope (23mm or 30mm port diameter). The camera should connects to a step ring (or T-Mount) and then to the camera adapter. • The C-Mount should 1” diameter, 32 TPI (threads per inch), male on the lens and female on the camera. • The microscope should provide an evenly illuminated field, a bright image without glare and minimum heating of the specimen. • Separate coarse and fine focusing knobs should be provided and should be mounted on the same axis. • Should provide minimum three lenses of different power, which should be anti-fungal in property. The oil immersion should be 100X.

S.No.	Item	Quantity	Specifications
			• The body should be such that there should be comfort while working long hours in sitting position. • The light source should be long lasting LED. • The unit should come with Iris Diaphragm. • Movement of slide should be controlled by easy to handle knobs. • European CE certification or USFDA certification or BIS certification • Quality Certificate of manufacturer like OHSAS-18001 or ISO 9001- 14001/9001-2008/ 9001-13485 should be attached to ensure quality
51.	Semi auto biochemistry analyzer**		• Semi Auto analyzer required for Routine Chemistries • Measurement Procedures o End point with or without Reagent Blank o Kinetic with Linearity Check o Kinetic with Linearity Check sample slope Blank o Two point with or without Reagent Blank o Bichromatic End point, with or without Reagent Blank o End point with sample Blank and With or Without Reagent Blank • Analyzer must be fully open system, having as many as 75 Programmable parameters displaying on board • For Kinetic graph be available on screen and also on printer • In Kinetics, it takes two reading per second and automatic Zero Setting. • Photometric range -0.1 to 2.3 abs; • Wavelength must cover 340 nm to 650 nm with Six Standard filters and Additional Six Free Position for Optional Filters, • Wavelength selection by IFL filters. • Maximum reagent consumption should not exceed 500 ul. • Metal with Quartz window Cross Type flow cell with Volume not exceeding 32 ul. • Calibration Mode o Factor, One Point, Two point & Multi Point o Automatic on one standard Linear mode o Automatic on up to 10 standard Non Linear mode • Aspiration System with internal Pump of Bellows Type driven by Stepper motor. • Fixed Flow cell temperature 37* C by means of Peltier Element. • Quality Control record of atleast last 30 controls measurement with on Screen Levey-Jennings Plot.

S.No.	Item		Specifications
			• Two controls Per Test can be programmed • Facility to attach external Printer • All Test Results must be available on screen • Instrument must have European CE or US FDA certified. • PS 2 Type port for External Keyboard is must apart from inbuilt alpha Numeric Keyboard. • Real Time Clock 24 Hour System • High Contrast Graphical LCD display • For Operational Support o 1 KVA Sine wave UPS with 4 hrs battery backup. o Fixed and variable pipettes: o Fixed range 5µl, 10µl, 50µl, 100µl, 500µl & 1000µl variable range 2 - 20µl, 20 - 100µl, 100 - 1000µl. 16 channel Centrifuge machine.
52.	Glucometer**		• Should have reading range/linearity from 30to 600mg/dl. • Should have a maximum reading time of less than 10 seconds. • Should use a min blood sample less than 1.5µl • Should have a min memory of 50 tests; accuracy +/-10% and reproducibility +/-5%. • Packing of strips should be such that there are not more than 50 strips/pack. This strips should be readily available throughout the country. • Should have automatic code detection facility, display of sugar in Mg/dl and not in mili moles. • Should have LCD display • Should be US fDA or Eu CE and BIS or ISO 13485 certified.
53.	Serum bilirubinometer**		• Sample volume of < 100 µL required, automatic calibration facility. • Total bilirubin concentration measurable (at least) in range of 0 to 30 mg/dl. • Time for total concentration measurement: ≤ 5 seconds. • Should have filters: 455 and 575 nm (•} 2%). • Should have error rate less than 5%. • Should have resolution- 0.1 mg/dl. • Automatic correction for Haemoglobin. • Measuring cell: Direct Haematocrit capillary readings. • Heparinized haematocrit glass capillary. • Settings should have method to recalibrate / save current calibration, set sample size. • User's interface- Manual interface, Backlit display with easy viewing in all ambient light levels.

S.No.	Item		Specifications
			• Inbuilt software. Convenient and quick USB interface. • Dimensions (metric) Approx. 110 x 150 x 200 mm. • Weight (lbs, kg) 5 kg - 15 kgs • Configuration (Ex : Compact, modular, to be fixed to walls, ceiling, etc). • Noise (in dBA) <60dB • Heat Dissipation: Should maintain nominal temp and the heat should be disbursed through an cooling mechanism. • Easy and safe transport to be possible by hand, stable when table top mounted; • Power Requirements 220VAC ± 10%, 50 Hz; • Tolerance (to variations, shutdowns) Voltage corrector / stabilizer to allow operation at ± 10% of local rated voltage. • Other energy supplies Length of mains power cable should be at least 3 meters. • Hard and splash-proof case to be supplied. • Spare parts (main ones) a. Spare/replaceable fuses - 2 sets. b. Reagents and capillary tubes sufficient for minimum 100 tests. c. Reagents and consumables per test should be declared. • Consumables / reagents (open, closed system) a. Capillary tubes, haemofluorometric reagents (e.g., aqueous cyanide salt with stabilizers, if applicable). b. Price of all Consumables to be mentioned. • Operating condition: Capable of operating continuously in ambient temperature of 10 to 40˚ C and relative humidity of 15 to 90% in ideal circumstances. • Storage condition: Capable of being stored continuously in ambient temperature of 0 to 50˚C and relative humidity of 15 to 90%. • Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover. • Should be CE (EU)/FDA (US) approved product. • Manufacturer / supplier should have ISO 13485 certificate for quality standard. Should have IEC 61010 certificate. • Availability of 5Amps electrical socket.

S.No.	Item		Specifications
54.	X-ray view box		• 3 Panel Side by Side X-Ray View Box Illuminators; High quality with aesthetic finish. • Should have the following Standard Features: • 1 foot fluorescent tube per panel • Roller gravity film holding system • Durable steel construction • Thin 3" profile • Chip resistant hospital white finish • Continuous bottom film ledge • Even view reflective system, with white acrylic translucent surface. • Centralized cluster On/Off switching • Optional Features: • FAS – Film Activated Switching • MS - Master Switch • HGP - Hospital Grade Plug Specs: Surface Wall Mount 3 Panel Side by Side 56" x • 17" Viewing Area • Overall Dimensions approx: 56" (L) 21" (H) 3 3/8" (D) (approx.) • Illumination: 2000 cd/m2 • It should be aesthetic and high quality • Power Supply : Power input to be 220-240VAC, 50Hz
55.	Colour ultrasound machine Mobile – For Screening Purposes**		• The system should be state-of-the-art model and all digital beam former for superior image quality with integrated light weight mobile cart. • The system should have General Sonographic and Vascular applications • Should have 15” or more high resolution TFT/LCD monitor with tilt and swivel facility and should be able to view in all angles and all light conditions • Should have three active ports, switchable electronically for Probe selection. • Should have an alpha-numeric keyboard with easy access scan controls and track ball. • Should have operating frequency of 2-5 MHz broadband Convex probe for general

S.No.	Item	Quantity	Specifications
			imaging. • Should have 8-12 MHz broadband Linear Array probe for Vascular imaging. • The machine should have cardiac package and the rate for Cardiac Probe (2-4 MHz • broadband phased array sector probe) • Should have 4-9 MHz broadband Trans-vaginal Probe of FOV 1200 • Should have for 4-9 MHz broadband side firing Trans-Rectal Probe • Should have independently selectable gain control. • Should have 2D, M-Mode, Power Doppler, Pulsed Wave Doppler and Colour Doppler. • Triplex imaging display modes on all probes • Should have Tissue Harmonic Imaging. • Should have color flow imaging • The system should have extensive calculation software package for General ultrasonographic imaging, vascular imaging and obstrectics and gynaecology including NT measurement. • The system should have provision for measurement and calculation of distance, area, volume and circumferences on the image. • The system should have dedicated reporting pages for all the applications. • Should have patient reporting page with embedded images. • The system should have minimum 256 grey scales or more. • The system should have facility to store images in a hard disk of capacity more than 150GB. • DICOM output facility without additional Hardware or software. • The system should have dedicated reporting pages for all the applications. • Unit should function with 200-240Vac, 50/60 Hz input power supply. • Should have a CD/DVD writer and option to connect external printer. • Should have DICOM compatibility without additional hardware. • Voltage corrector / stabilizer to allow operation at ± 15% of local rated voltage. Use of SMPS to correct voltage. • Electrical protection, resettable over current breakers or replaceable fuses (fitted in both live and neutral lines). • The system should have following documentation devices a. Laser color printer for color image printing. b. B/W Thermal printer of latest model c. Glazed thermal paper rolls 50 no. & 10 rim of Glossy paper sheet. d. Online UPS for power back up of minimum 30 minutes

S.No.	Item	Quantity	Specifications
			e. 50 nos. of DVDs to be supplied • Disinfection: Parts of the Device that are designed to come into contact with the patient or the operator should either be capable of easy disinfection or be protected by a single use/disposable cover. • Standards & Safety : a. Should be US FDA and European CE approved product. b. Manufacturer and Supplier should have ISO 13485 certification for Quality standards. c. Electrical safety conforms to the standards for electrical safety IEC 60601-General requirements d. Shall meet internationally recognized for Electromagnetic Compatibility (EMI/EMC) for electro medical equipment: 61326-1. e. Certified to be compliant with IEC 61010-1, IEC 61010-2-40 for safety. • Manufacturer/supplier should have ISO 13485 certificate for quality
56.	Height measuring stand		• Wall Mounted • Up to 2 meters height • Measurement in centimetres only not in inches
57.	Blood storage refrigerator**		• Should be able to accommodate 120 numbers standard blood bags for each of 350 ml capacity • Temperature should maintain between +2º C to +6 ºC. • Should be provided with a temperature recorder (weekly chart recorder). • The unit should be mounted on wheels.
			• The external cabinet should be of rust proof material and have internal SS sheet and should have sliding trays made of stainless steel. • Should have an inner plexi door for each compartment separately for easy viewing the blood bags. Outer lockable double glass door with air gaps • Should have a digital sensor dipped in liquid/air medium • Should have a display for temperature. • Internal temperature hold overtime in case of power failure should be at least 1 ½ hrs. • Should have an internal light. • Should have visual, audible indication for door open, high and low temperature and power on. • Alarm system should be incorporated with battery backup for minimum 2 hrs. • Should have a vertical cabinet. • Should have a CFC free, Urethane foam insulation (50-90mm) to protect cabinet from ambient temperature fluctuations • System should have a positive forced air circulation to maintain temperature uniformity at all shelf levels with +/- 1degC. • Should have sensors for activating automatic defrost cycles to minimize the frost build up. • Should be provided with a voltage stabilizer (external or inbuilt) of appropriate ratings. • Should operate on mains 220-240Vac, 50 Hz single phase.

			• Temperature recording chart and ink pen for 5 years shall be supplied free of cost. • Equipment should have brand name / model number embossed/ etched on the equipment. • All the technical specifications accepted in the compliance statement must be supported by Original Literature from the firm/ O.E.M with Highlighting, Numbering & flagging. • Standards & Safety : a) Should be US FDA or European CE approved. b) Relevant IEC-60601-Part 1 & 2, certificates by a notified agency c) Manufacturer/Supplier should have ISO 13485 certificate for quality standard.
58.	Transport ventilator**		1. Ventilation modes: - a. Volume Controlled mode. b. Pressure Controlled mode c. Asst. Controlled mode. d. SIMV(VC/PC) e. Pressure Support f. CPAP and PEEP g. Shall have NIV in all modes. 2. Tidal volume - 100 – 2000 ML (Adult patient) a. Respiratory rate - 0 – 60 BPM. b. Inspiratory Pressure - 4 – 50 cm H2O. c. Oxygen Concentration - 21 –100 % d. Audible alarms for low pressure, apnoea, high-pressure, high respiratory rate circuit disconnection. 3. Standard Accessories (with each machine): a. Patient circuit (Adult) - 1 complete set, reusable b. O2 Pressure Regulator - 1 No. c. Hose for O2 connection - 5 mts. d. Test lung - 1 No. e. Shall supply with all other accessories necessary to operate the ventilator. f. NIV Mask -1No(Adult Reusable) 4. Power Source a. 220/240 V Ac 50 Hz supply b. Internal battery (maintenance free) with 2.5 hours minimum operating 5. Mounting a. Provision for mounting on trolley & bedrail with necessary clamps. Should have carry handle/ provisions for transport easily 6. Should not have ventilator circuit with multiple tubing which is not easy to assemble or re-assemble. 7. Should have trigger setting facility for pressure/flow. 8. Should be electrically driven to prevent wastage of gases and to avoid dry run. 9. Patient circuit – 10 nos disposable should be supplied along with the machine. 10. The ventilator shall be able to monitor VTE, VTi, RR, FiO2, NVE, Pif, I:E Ratio,

S.No.	Item		Specifications
			graphs – V-T/P-T/F-T(at least one) 11. Shall have weight <10kg 12. Oxygen – input either low pressure or high pressure. in case of low pressure, FiO2 shall be able to set more than 0.9. 13. **Standards & Safety** : a) Should be FDA (US) and CE (EU) notified body approved b) ISO 13485;2003; IEC-60601-1-2; ISO 15001-2010 (Anestheric& respiratory equipment- compatibility with oxygen). Certificate Of approval for transport ventilator. c) Manufacturer/Supplier should have ISO 13485 certificate for quality standard. 14. **Documentation**: a) User, technical, maintenance and service manuals to be supplied along with machine diagrams. b) List of equipment and procedures required for local calibration and routine maintenance. c) Certificate of calibration and inspection. 15. Any warning signs would be adequately displayed. 16. **Storage condition**: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. 17. **Operating condition**: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%. 18. Training of users in operation and basic maintenance shall be provided. Advanced maintenance tasks required shall b documented.
59.	Transport ventilator (Neonatal) **		• Mountable transport ventilator (Neonate/Paediatric). • Invasive Modes (CMC and SIMV) and Non-invasive Mode (CPAP) • Pressure controlled - Pressure upto 15mmHg. • Respiration Rate upto 40. • There should be two FiO2 setting range between 21% and 100%. Setting 100% FiO2 should be mandatory. • PEEP 0-20 cm of water. • Trigger sensitivity - Pressure. • The associated cylinder (to be supplied along with the machines) should be such that it could be locally filled. • Oxygen Cylinder connector (to be supplied along with the machines) should be compatible with ventilator. • Audio and visual alarm for disconnection and high pressure. • The device should be capable of operation in various environments such as Emergency, Ambulance, Aircraft,

S.No.	Item		Specifications
			Hospital and MRI. • The device should be MRI conditioned up to 3 Tesla, 430 G/cm. • User interface should be automatic. • Weight should be less then 8kgs. • Should have audio visual alarm for disconnection and high pressure. • Power Requirement: 220to240V,50Hz;electricity andbattery driven;should be compatible With ambulance power supply system with other life saving equipments running parallel in the ambulance. • Battery backup should be atleast 6hrs. • Tolerance ± 10% of input • Should have OVP Protection and earth leakage protection. • Power consumption : <140 Watt. • **Accessories**: Full face mask, 4 reusable breathing circuit of silicone material (2 for pediatric and 2 for neonates), carry bag, ventilator connecting tubes. • **Standards &Safety** : Should be FDA (US) and CE (EU) notified body approved • ISO 13485;2003; IEC-60601-1-2; ISO 15001-2010 (Anestheric& respiratory equipment- compatibility with oxygen). Certificate • Manufacturer/Supplier should have ISO 13485 certificate for quality standard. • Any warning signs would be adequately displayed. • **Storage condition**: Capable of being stored continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90%. • **Operating condition**: Capable of operating continuously in ambient temperature of 10 to 40 deg C and relative humidity of 15 to 90%.
60.	Defibrillator**		• US FDA or Eu CE notified body approved • Biphasic, Manual and AED with voice prompt, compact and light weight • Energy selection 5J to 200J in steps. 3. Momentary energy selection access on front panel. • Should have adult and pediatrics paddles integrated on same handle • Momentary charge key on front panel and on the apex hand. • Monitor should display selected and delivered energy • Should have disarm facility. • Energy should be delivered within 30ms after the detected R wave in synchronization mode. • Charging time maximum 5 sec for 200J. • Should have battery back up for 50 discharges of 200J.

S.No.	Item		Specifications
			• Should have ECG inputs through paddles or 3 lead cables. • Should have display for selected ECG input source(I, II, III, paddles) • Lead off message should appear with alert tone. • Amplitude gain of ECG waveform should be adjustable • Should have display for heart rate. • Should have alarm for high and low HR. • Should have an inbuilt thermal recorder. • Should have enable/disable option for printer. • Should supply 2 bottle of jelly, 12 roll of thermal paper. • Should supply three pairs of AED pads 21.Should operate on mains 230V, 50Hz
61.	Portable ultrasound**		• System should weight: not more than 7.5 kgs with battery and one single regular probes • System should be preferably spill proof and fluid resistant for easy to clean and disinfect • System cold start up time off to on not more than 90 second • Architecture: all digital broadband • Should have dual imaging • Should have zoom capability • Should have dynamic range & gain • Should have S-Video (in/out) for record & playback • Should have RGB or DVI output to external LCD display • Should have composite video output (NTSC/PAL) or HDMI to Video printer or external LCD display • Should have minimum of 2 USB ports for data transfer • System should work both in AC power and battery • System should have minimum battery backup of 1hr on fully charged condition • System should be compatible for TEE/TOE, and should support both in A/C Mains and in battery • AC: Universal Power adaptor, 110-240 VAC, 50/60Hz input II. • The equipment must be capable of operating in B mode, M Mode, Color Doppler, Pulsed Wave and Continuous Wave modes. It must support transducers with linear, phased array and curved array formats. • It must include a fully array of measurement and calculation packages. The specific requires for this equipment are the following; o Beam Former: universal digital broadband former accepting routine phased array sector, convex, and linear probes o Monitor: should have high-resolution medical grade monitor not less than 10” with adjustable display

S.No.	Item		Specifications
			contrast o Digital processing channels: at least 128 channels o Gray scale: system should have a minimum of 256 gray levels with system dynamic range to be at least 100 Db o Display modes: with B, 2B, M, PW, HPRF/CW and Color Doppler with Power Doppler, Tissue Harmonic should be available on convex and phased array probes, steering on color / PW modes on linear probe should be available o Cine review: standard cine memory providing minimum 200 frames on 2D mode and up to 60 seconds Doppler cine o System should be capable of handling 2-15 MHz – multi frequency imaging with independent selection of 2D/Color/Spectral Doppler frequency should be offered 8. Image optimization on B and M modes: System should have the following: ▪ Up/down & right/left image rotation ▪ Multiple steps of edge enhancement settings ▪ Up to 25cm depth. ▪ Levels of persistence o Measurements and calculations ▪ System should have at least 4 calipers with depth information and extensive, customizable measurement and report packages ▪ Distance, area, % stenosis on B mode c. Distance, Time, Heart Rate, slope on M mode d. Velocity, acceleration time, slope, PI, RI, S/D Ratio with Auto Doppler on Doppler mode o Transducers: ▪ Supported by this system should include multi frequency, broad brand, linear array 6- 12MHz transducer for, vascular, musculoskeletal, nerve and superficial imaging ▪ Transducers supported by this system should include multi-frequency, broadband phased array transducer 2-4 MHz for cardiac, abdominal, and obstetrics imaging. o Machine should be supplied with a convex probe (2-5 MHz) as standard o Should be US FDA or Eu CE notified body approved o Manufacturer should have ISO 13485
62.	3-D Ultrasound – High End for Diagnostics**		Specification of colour Doppler Ultrasound Machine • It should be State of the art new generation technology, ergonomically designed integrated trolley mounted Digital Ultrasound Unit with Color Doppler facility & should be capable of performing imaging application of

S.No.	Item	Specifications
		abdomen, Obstetrics, Gynaecology, cardiac paediatric, fetal cardiac, small parts, vascular etc. • The system should incorporate facility for High resolution 2D, M Mode PW, CW, Color Flow imaging, Color Power Anzio Imaging, Directional Color Power Doppler Imaging mode. System should have Triplex Modes all three modes B &Color Live Mode, M mode. • System should have 4D scanning facility and elastography facility with elastography quantification for better initial scanning of melignant patients. • The system should have facility of tissue harmonic imaging, trapezoidal imaging &Spatial compound imaging. • The system should have Zoom facility on live and freeze image. • The system should have touch panel operation facility along with Key board for fast working • All transducers should have Broad Bandwidth Beam former technology for extreme High Resolution 2D/3D Imaging. Frequency range of Transducers should be 2 to 15 MHz or more. • The System should be equipped with speckle noise suppression function (or equivalent facility with different name). Such function should be visible on the screen. • Facility for independent steering of color beam on liner probe. • The system should provide 188 dB or more full input dynamic range. • Should have one touch image optimization & automatic real-time Doppler tracing. • System should have a High resolution LCD Monitor of medical grade of 17 inches or more with anti-glare & maximum viewing angle facility. • System should have facility of panoramic view imaging. • The system should have touch pannel 10' screen for better and easy operation of machine. • Machine should have at least 3 active general transducer ports. • System should have Image management facility for direct storage of Images and loops in the hard Disk Drive. • Should have in built at least 320 GB HDD or more to store images and cine loops. • Archive-should have inbuilt DVD-RW, USB Drive with the facility to transfer images. • Should direct connectivity to color inkjet printer for printing images & report. • Should have high frame rates more than 800 FPS. • Should have Digital Processing channels of 84000 or more. • Grey scale (min 256 or more). • System should have scanning depth of 34 cm or more. • The system should have automatic quantification of Doppler Parameters to display user selected measurement. • DICOM 3.0 including storage, print and send facility to be quoted as standard. • The System should be compatible of the supporting different types of probes including, convex, micro-convex,

S.No.	Item		Specifications
			linear, sector/phase, array and transvaginal/ transrectalprobe for wider application requirements which should be supported by original database, user manual & catalogue. • Cine-loop should be 600 loops/60 sec. • The accessories to be supplied as standard supply with the unit are: o Color Photo Printer o Suitable online UPS with 20 min. backup and o Thermal Printer • The quoted model should be US FDA approved, Requisite certificate should be attached. • The Equipment should be offered with the following standard probes: o Multi frequency Convex probe of 2-5 MHz, or better o Multi frequency Linear probe of 4-10 MHz, or better o Multi frequency TV/TR probe of 4-8 MHz, or better o Multi Frequency cardiac phased array probe of 2-4 MHz or better
63.	X-ray		Specifications of Mobile X-Ray Machine 100 mA • Radiography Rating: 15-60mA stations 40 KVP to 100 KVP in steps of 5 KVP each. • Output: 3.5 KW • Rectification: Full wave rectified High Frequency 40 KHz • Timer: Electronic Solid State in 24 Steps 0.01 to 3 Sec. • Digital Display: Digital Display to mAs. & KV • X-Ray Tube: BEL DSA-3/Imported, Focal Spot Focal spot 1.4 mm^2 • Power Supply: 230 Voltages AC, 15 Amps • Requirement: 40 Hz, Single Phase • Line Regulation: 10% 0.6 Max • Protection: Electronic over-load protection • Tube Stand: Counter Balanced/ Spring Balanced Mobile stand, should be easily Transported in elevators/lift because of low height. • Mobility: High Mobility • AERB Approved and Eu CE approved & ISO 13485 certified
64.	Laryngoscope		• Fiber optic Laryngoscope - preferably should be reusable using the latest LED technology and reusable light source using the latest LED technology. • The main body of the handle should incorporate an excellent grip & should feel even wearing a glove.

S.No.	Item		Specifications
			• There should be a freely moving light intensifier of light from the light source through to the tip of the fiber optic blade to prevent any possibility of cross contamination. • Should be light weight (upto 500 gms). • The unit should allow the blade to be inserted easily & should provide a positive locking mechanism when moved in to the closed position. • The patient contact material should be biocompatible. • Handheld unit, single piece when in use. • On/off switch to be robust and easy to use. • External material to be non-ferrous. • Blades to be surgical grade 316 stainless steel. • Supplied in protective, reclosable container. • Internal batteries, rechargeable preferred/Penlight battery AA size, Battery charger (if rechargeables), Battery compartment (if reusables) to be sealed against liquid ingress, yet easily opened. • Accessories mandatory with Batteries, blades of various adult, neonatal and pediatric sizes. • 5 LED should be given as spare. • Manufacturer/supplier should have ISO7376 standard; certificate for quality standard. • The lithium battery should comply to IEC 62133 or its equivalent. • The device should meet IEC 60601-1, IEC 60601-2 standard requirements. • Should be US FDA or EU CE approved product.
65.	Constant Temp Water Bath with Thermometer for Lab		• Should have a double walled construction. • The inner chamber and top lid should be made of stainless steel. • The space between the two walls should be packed with thick glass wool. • Should provide with a thermostat control and a thermometer to measure temp. • Working temperature should be from ambient+5 ºC to 80ºC having an accuracy of +/- 1ºC • Should have an approximate ± 5 % variation in inner chamber dimension of 350mm x 250mm x 125mm. • It should be a water bath with a surface that provides high thermal conductivity rates and outstanding scratch resistance due to its special plastic coating. • Temperatures can be selected between ambient and 80°C. To increase safety and reliability it should have features an overheating protection system along with a stand-by mode.

S.No.	Item		Specifications
			• The broad oversized rim of the water bath should allow convenient storage for microscope slides and the rounded inner corners of the instrument should allow it to be cleaned easily and efficiently. • The jet black surface with scratch-proof plastic coating to provide better contrast to identify sections and an easy to clean surface. • Should have LED display for programmed & current temperature and visual indication when the temperature exceeds above 44°C. • Membrane keyboard should be less sensitive to water and paraffin contamination and more easily cleaned. • Should have BIS and ISO 13485 certification.
66.	Centrifuge -12 Tubes		• Should have a maximum speed of 5000 RPM with stepless regulator • Should be supplied with safety lid and lock. • Should have digital speedometer and timer. • Should have imbalance detector and automatic cutoff. • Should be US FDA / European CE / BIS approved. • Manufacturer or supplier should have ISO 13485 certificate. • Should work on 200-240Vac 50Hz power supply. • Should have swing out rotor of size 16*15ml.
67.	Ambu Bag		• High Grade Rubber/Silicon • auto shut valve • Facility to connect Oxygen
68.	Microprocessor Based Incubator (transport type)		Dimensions (metric): Baby bed should be atleast 60X30cm and the canopy should be atleast 80X40 cm Weight (lbs, kg): not exceeding 40kg. (without cylinders)

S.No.	Item		Specifications	
			Configuration	Oxygen port with tubing, also mount for oxygen cylinder of 5 litre size Accommodates shelves, suction unit and I/V poles. Double-walled cabinet with at least two hand ports. Should have collapsible trolley with lockable castors. Mounted on mobile base, lowest height setting of which is at least 80 cm high Minimum castor diameter 12cm At least two castors must be fitted with brake facility Castors must be made of conductive material and rotate (swivel) freely around the vertical axis The canopy and infant bed should be crevice free for ease of cleaning.
			heat dissipation	Should maintain upto 37 deg temp
			Mobility, portability	Yes, on castors
			Voltage (value, AC or DC, monophase or triphase)	220 to 240V, 50 Hz
			Battery operated	battery charger to be integral to mains power supply, and to charge battery during mains power operation of unit.Electrical protection by resettable over current breakers or replaceable fuses, fitted in both live and neutral lines. Battery backup of 2 hours for equipment operation. The battery should be protected from overcharging.
			Tolerance (to variations, shutdowns)	Voltage corrector / stabilizer / UPS to allow operation at ± 30% of local rated voltage

S.No.	Item		Specifications	
			Protection	Internal, replaceable, rechargeable battery allows operation for at least two hours in the event of power failure
			Power consumption	
			Other energy supplies	Mains cable to be at least 3m in length
			ACCESSORIES, SPARE PARTS, CONSUMABLES	
			Accessories (mandatory, standard, optional)	With washable and removable straps and binders
			Spare parts (main ones)	Two extra sets of all sensors
			Consumables / reagents	Two extra sets of filters, two extra set of fuses (if replicable) fuses used)
			Environmental and Departmental Considerations	
			Atmosphere / Ambiance (air conditioning, humidity, dust)	Operating condition: –Capable of operating continuously in ambient temperature of 0 to 50 deg C and relative humidity of 15 to 90% in ideal circumstances. – an ambient air velocity is less than 0.3 m/s.
			User's care, Cleaning,	Unit layout to enable easy cleaning and sterilization of all surfaces, with no unreachable fluid traps. The case is to be
			Standards and Safety	
			Certificates (pre-market, sanitary, ..);Performance and safety standards (specific to the device type);Local and/or international	Should be US FDA / European CE approved product Manufacturer / supplier should have ISO 13485 certificate for quality standard Electrical safety conforms to standards for electrical safety IEC-60601-1

S.No.	Item	Quantity	Specifications
			Shall meet IEC-60601-1-2 (General requirements for safety - electromagnetic compatibility) Shall comply with IEC 60601-2-20 transport incubator standard requirement.
69.	Transfer Trolley for OT Sterile zone		• Patient transfer trolley without side railings. • Overall approx. dimension: 1900 x 710 x 665 mm and 915 mm H (L x W x H) ± 50 mm tolerance accepted. • Should have Mild steel tubular frame work made of 60 mm x 30 mm x 1.2 mm (18 G) supported by MS tube 25 mm x 25 mm x 1.2 mm (18 G) and linkages made from flats thickness 10 mm. This frame is mounted on four 125 mm dia. castor with synthetic body two with brakes and two without brakes. • Should have 1.5mm thick SS 304 sheet stretcher, 25 x 2mm SS 304 round tube frame. Decorative laminated (compact) sheet of 8 mm thick make Top is also accepted • Should have cross bar placed in between the leg frames on both ends. • Should have two transverse supports to be provided beneath the stretcher. • Should have Backrest on ratchet. • Should be fitted with swing away type mild steel epoxy powder coated railing. • Should have Oxygen cylinder holder & storage tray 11. Should have Stainless steel I.V. rod made of SS 304 with two provisions. • Should have provisions for height adjustment. • Should be pre-treated and powder coated finish. • Should be Eu(CE) or BIS approved. • Manufacturer or supplier should have ISO-13485 certificate

S.No.	Item	Specifications
70	BLOOD GAS ANALYSER	1. Should be able to measure directly PH, PCO2, PO2, Sodium, Potassium, Chloride, and Calcium in a single run. 2. Should have minimum 15 calculated parameters including SaO2,Bi-carbonate (HCO3), Standard HCO3, Base Excess of Blood (BE), Base Excess of extra cellular fluid 3. Should have a sample through put of minimum 30 samples per hour 4. Should have an automatic calibration for all the measured parameters without the use of gas cylinder 5. Electrode should be individual with ON/OFF facility and durable. 6. Should have an inbuilt printer and minimum inbuilt memory of 100 samples 7. Warm up time should be less than 30 minutes 8. Reagent pack for doing 1000 test, one deprotieniser of 125 ml, printer paper and one three level quality control of 5ml. 9. Should work on 200-240Vac 50Hz power supply. 10. Should be supplied with on line pure sine wave UPS of sufficient capacity for a minimum back of 30 minutes. 11. Should be provided with calibration certificate issued by the manufacturer at the time of installation and calibration certificate should be issued for the machine by the supplier during preventive maintenance visit in the warranty/AMC period if demanded by the end user. 12. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid. 13. All types of electrodes supplied initially shall have one year warranty and there after any types of electrodes supplied shall have six months warranty. 14. Reagents supplied should have at least six months shelf life. 15. All consumables should have at least 45 days on-board stability.

71	Hematology Analyzer (3 Part Differential)	The Equipment should be fully automated three part differential 18 parameters Hematology Analyzer having automatic start up, shut down and sample analysis. Principles : Electrical impedance method with advanced SRV technology for better accuracy and precision. Photometry – LED based technology. Parameters : The Equipment should be able to report following parameters- WBC, RBC, HGB, HCT, MCV, MCH, MCHC, PLT, LYM#, MID#, GRA#, LYM%, MID%, GRA%, RDW-SD, RDW-CV, PDW-SD, PDW-CV, MPV, PCT. Histograms: WBC, RBC and PLT . Throughput : The equipment should have throughput of at least 60 samples per hour . Sample volume : 25µl of whole blood using automatic sample holder . Chambers : Dual chamber advanced system for higher accuracy & resolutions . Reagent System : Environment-friendly reagents . Auto Clean Modes : Chemical cleaning of the aperture using reagent , Back-flush using high-pressure . Data capacity : 1 000 results with all histograms. USB Interface (2) : Support for host computer . Support for USB keyboard (optional). Support for external printers (hp DeskJet, LaserJet) .Data back-up method : USB mass storage device Software upgrade method : Via USB port (using USB mass storage) .The equipment should have in built printing facility .It should have option for RS 232 port and integration with LAN for intranet and internet. The equipment should have internal and international quality control support. The equipment should be CE marked/FDA (US) approved. Source: Indigenous /Imported.

72.	Oxygen Concentrator	1. Oxygen concentrator to provide oxygen from ambient air 2. Oxygen concentration measured at the flow meter by oxygen sensing device (OSD) 3. Sound level <15 dB 4. Superior grade of molecular sieve 5. Maintenance free rotary proppet valve. 6. Oxygen purity, approx: 90% 7. Oxygen output, approx: 0 - 5 LPM 8. Pressure, approx: 8 psi 9. Double outlet or flowsplitter for oxygen Delivery 10. Oxygen tube of 2 m length must be provided with 11. Facility for nebulization with tube & mask 12. With two humidifier bottles and two cabinet filters 13. Unit should function with 200-240Vac, 50/60 Hz input power supply 14. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid. 15. The equipment shall be supplied with i. One spare set of tubing ii. One spare set of internal and external filters (bacterial) iii. One spare set of fuses iv. User manual with trouble shooting guidance, in English v. Technical manual with maintenance and first line technical intervention instructions, in English vi. List of priced accessories and priced spare parts

73.	Bacteriological Incubator	1. Temperature range: Ambient +5.0°C to 60.0°C. 2. Temperature control accuracy: ±0.5°C of set point. 3. Temperature uniformity :±0.5°C . 4. Control type: Time proportionate digital / Microprocessor PID, Auto tune . 5. Temperature display: 3½ digit LED . 6. With motorized fan blower for air circulation. 7. Inner full length acrylic door . 8. Input voltage: 230Volts AC, 50 Hz. 9. Calibration certificate by ERTL –with traceability to NPL – New Delhi 10. Outer cabinet mild steel powder coated.
74.	Baby Bassinet	1. Preprex transparent crib with soft mattress. 2. Should have fine finish, Sturdy and robust design. 3. Should be on 5cms castors with IV rod. 4. Finish: Pretreated and Epoxy powder coated.
75.	CPAP Machine with Heated Humidifier	The **CPAP Machine with Heated Humidifier** should offer advanced features for therapy comfort and success. Exhalation Relief makes breathing out against the air flow easier while the Auto-Adjusting technology provides optimum therapy pressure on a breath by breath basis. The integrated Heated Humidifier is included to maximize therapy comfort. **Specifications** • Auto-CPAP Machine • Heated Humidifier for Auto-CPAP • 6 Ft Hose (22mm) • Carry Case • Power Cord • 2 Disposable Filters -1 Installed & 1 Extra • Manual **Machine & Humidifier Warranty** 2 years

		Pressure 4 to 20 cm H2O (.5 increments) **Ramp Time** 0 to 60 min. (5-min. increments) **Starting Ramp Pressure** 4 to min pressure. **Filter** Disposable - Dual Filtration **Sound level**<30 dBA **Tubing** Standard 6 Ft Hose, Flexible plastic, 22mm inner diameter **Device Set-Up** Control Panel Push Buttons **Humidification** Integrated Heated Humidifier or Pass-over Humidifier **DC Power** Use with Inverter **Data Storage Capacity** Display: 365 days summary data **Temperature Range for Operation of Machine** 41 to 86° F (5-30° C) **Humidifier Temperature Output** Settings 1 - 5 (104° to 149° F)
76.	Blood cell Counter (Manual)	1. 8-Key Counter 2. Table top
77	Instruments Tray Different Sizes	1. Instrument tray with cover 2. Kidney Tray 3. Catheter Tray 4. Dressing Tray 5. All should be made of heavy duty stainless steel.

GENERAL TECHNICAL SPECIFICATIONS

GENERAL POINTS:

1. Warranty:
   a) Five years Comprehensive Warranty as per Conditions the TE document for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) Warranty period will be 5 years from the date of installation, commissioning and Site Modification Work from the date of satisfactory installation, commissioning, trial run & handing over of equipment to Hospital/Institution/Medical College.
   b) 95% up time Warranty of complete equipment with extension of Warranty period by double the downtime period on 24 (hrs) X 7 (days) X 365 (days) basis.
   c) All software updates should be provided free of cost during Warranty period.

2. After Sales Service:
   After sales service centre should be available at the city of Hospital/Institution/Medical College on 24 (hrs) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 8 hrs. The service should be provided directly by Tenderer/Indian Agent. Undertaking by the Principals that the spares for the equipment shall be available for at least 10 years from the date of supply.
3. Training:
   On Site training to Doctors/ Technicians/ staff is to be provided by Principal/ Indian Agents (if they have the requisite know-how) for operation and maintenance of the equipment to the satisfaction of the consignee. The same will be in line with the training modalities as specified in general technical specification.
4. Annual Comprehensive Maintenance Contract (CMC) of subject equipment with Site Modification Work:

   a) The cost of Comprehensive Maintenance Contract (CMC) which includes preventive maintenance including testing & calibration as per technical/ service /operational manual of the manufacturer, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years on yearly basis for complete equipment (including Batteries for UPS, other vacuumatic parts wherever applicable) and Site Modification Work (if any). The supplier shall visit each consignee site as recommended in the manufacturer's technical/ service/operational manual, but at least once in six moths during the CMC period.
   b) The cost of CMC may be quoted along with taxes applicable on the date of Tender Opening. The taxes to be paid extra, to be specifically stated. In the absence of any such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained later.
   c) Cost of CMC will be added for Ranking/Evaluation purpose. The same will be taken at Net Present Value with a 10% discounting factor each year.
   d) The payment of CMC will be made on six monthly basis after satisfactory completion of said period, duly certified by end user on receipt of bank guarantee for 2.5 % of the cost of the equipment as per Section XV valid till 2 months after expiry of entire CMC period.

e) There will be 95% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
f) During CMC period, the supplier is required to visit at each consignee's site at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.
g) All software updates should be provided free of cost during CMC.
h) Failure of the above [4. e) to 4. g)] by the supplier, may lead to the forfeiture of the Bank Guarantee for Annual CMC.
i) The payment of CMC will be made as stipulated in GCC Clause 21.

Section – VIII

Quality Control Requirements

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

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

1 Name of the manufacturer
   a. full postal address
   b. full address of the premises
   c. telegraphic address
   d. telex number
   e. telephone number
   f. fax number
2 Plant and machinery details
3 Manufacturing process details
4 Monthly (single shift) production capacity of goods quoted for
   a. normal
   b. maximum
5 Total annual turn-over (value in Rupees)
6 Quality control arrangement details
   a. for incoming materials and bought-out components
   b. for process control
   c. for final product evaluation
7 Test certificate held
   a. type test
   b. BIS/ISO certification
   c. any other
8 Details of staff
   a) technical
   b) skilled
   c) unskilled

Signature and seal of the Tenderer

Section – IX
Qualification Criteria

. .

1 Bidder should submit end user certificate(s) for having executed at least 25% of the tendered quantity during the last Five years from the date of Tender Opening for items mentioned at table 1 below with respect to the relevant group(s) for their submitted bid.

Table-1

S. No	Equipment	Group	Qty for 20 hospital
2	Hydraulic OT Table	A	80
4	Ceiling shadow less lights for OT	A	40
5	Portable shadow less lights for Labour Room	A	120
9	Gynaec electric cautery	A	40
24	Multipara bed side monitor (6 parameter) with central Nursing Centre	C	20
25	Pediatric Ventilator for ICU	C	40
26	Colour Ultrasound Machine Mobile- For Screening Purpose	C	40
27	Transport Ventilator	C	20
28	Transport Ventilator Neonatal	C	20
30	Portable Ultrasound	C	20
31	3-D Ultrasound- High End for Diagnostics	C	20
54	Anesthesia trolley and General Anesthesia kit	D	80 set
63	Radiant Warmer	E	120
65	Microprocessor Based Incubator (Transport type)	E	20
72	Semi auto biochemistry analyzer	F	20
73	Blood Storage Refrigerator	F	20
74	Centrifuge- 12 Tubes	F	20
75	Blood Gas Analyzer	F	20
76	Hematology Analyzer	F	20
77	Blood Cell Counter (Manual)	F	20

2 Bidder should have an annual average turnover during the last 3 years for an a minimum amount as mentioned in the table 2 below against the group of items there bidding for. The cumulative turnover of the groups shall be considered for qualifying in case the bidder is quoting for more than one group.

Table-2

Group	Minimum Average Turn Over Criteria
A	508,75,000
B	114,50,000
C	775,75,000
D	447,55,000
E	149,00,000
F	93,42,500

3. Bidders have to submit the Manufacturer authorization form in the prescribed format mentioned at section XII for the items in the table below against their offered group of items.

NIT S. No	Equipment	Group
2	Hydraulic OT Table	A
4	Ceiling shadow less lights for OT	A
5	Portable shadow less lights for Labour Room	A
9	Gynaec electric cautery	A
24	Multipara bed side monitor (6 parameter) with central Nursing Centre	C
25	Pediatric Ventilator for ICU	C
26	Colour Ultrasound Machine Mobile- For Screening Purpose	C
27	Transport Ventilator	C
28	Transport Ventilator Neonatal	C
30	Portable Ultrasound	C
31	3-D Ultrasound- High End for Diagnostics	C
54	Anesthesia trolley and General Anesthesia kit	D
63	Radiant Warmer	E

65	Microprocessor Based Incubator (Transport type)	E
72	Semi auto biochemistry analyzer	F
73	Blood Storage Refrigerator	F
74	Centrifuge- 12 Tubes	F
75	Blood Gas Analyzer	F
76	Hematology Analyzer	F
77	Blood Cell Counter (Manual)	F

3. The start-ups claiming exemption on the required prior experience, and complying the condition of GIT Clause 23, should furnish along with the bid
   (i) All necessary documents in support of the claim regarding exemption on prior experience as mandated by concerned Ministry/ Board of Govt. of India.

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

NOTE:

1. The tenderer shall give an affidavit as under:

   "We hereby certify that if at any time, information furnished by us is proved to be false or incorrect, we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the earnest money."
2. In support of 1 , the Tenderer shall furnish Performance statement in the enclosed Proforma 'A'.
   The bidder shall furnish Satisfactory Performance Certificate from the end user in respect of above, duly translated in English and duly notarized in the country of origin, alongwith the tender.
3. The Tenderer shall furnish a brief write-up, packed with adequate data explaining and establishing his available capacity/capability (both technical and financial) to perform the Contract (if awarded) within the stipulated time period, after meeting all its current/present commitments. The Tenderer shall also furnish details of Equipment and Quality Control in the enclosed Section VIII.
4. Notwithstanding anything stated above, the Purchaser reserves the right to assess the Tenderer's capability and capacity to perform the contract satisfactorily before deciding on award of Contract, should circumstances warrant such an assessment in the overall interest of the Purchaser.
5. The Purchaser reserves the right to ask for a free demonstration of the quoted equipment at a pre determined place acceptable to the purchaser for technical acceptability as per the tender specifications, before the opening of the Price Tender.

Section – X
TENDER FORM

Date_____

To

Team Leader- Admin & Commercial
HLL Mother & Child Care Hospitals Limited

Ref. Your TE document No. _____dated _____

We, the undersigned have examined the above mentioned TE document, including amendment/corrigendum No. _____, dated _____ (*if any*), the receipt of which is hereby confirmed. We now offer to supply and deliver_____ *(Description of goods and services)* in conformity with your above referred document **for the sum as shown in the price schedules attached herewith and made part of this tender**. If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.
We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form.
We agree to keep our tender valid for acceptance as required in the clause ___, or for subsequently extended period, if any, agreed to by us.
We also accordingly confirm to abide by this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.
We further understand that you are not bound to accept the lowest or any tender you may receive against your above-referred tender enquiry.
We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities.
We confirm that we fully agree to the terms and conditions specified in above mentioned TE document, including amendment/ corrigendum if any

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

SECTION – XI
PRICE SCHEDULE

NIB Ref./ RFx No.	
Name of the bidder	

Price Format - A (in case of goods and/or services offered in INR)										
1	2	3	4	5	6	7	8	9	10	11
Sl. No	Description of goods as per specification and/or BOQ	Make/ Model	Country of Origin	Quantity	Unit of Measurement (No./ Set/ mtr./ ltr./ Kg. etc)	Unit Price at Consignee Site (excluding GST)	Applicable GST (%)	Applicable GST value/ unit (7 x 8)	Unit Price at Consignee Site (7+9)	Total Price at Consignee Site (6 x 10)
									Sum Total of Column 11	

Total value of above offer in INR consideration: Rs. _____

(Total value in words):

Note:

1. All the information must be entered in the relevant columns
2. Any Incidental Services (including Installation & Commissioning, Supervision, Demonstration and Training at the Consignee site), Turnkey work, etc. are to be shown as separate line item with HSN/ SAC Code and applicable GST based on nature of the work
3. **The bidder may participate and submit their bids for any one or more groups in this tender. However, bidder has to quote for all the items (providing individual price of each line item) in the group(s) quoted for. In case any line item is not offered while quoting for a group of items the bid for that group shall be rejected without evaluating further. The group wise comparison/ranking of bids shall be determined for consideration of award based on the total value (including all taxes & duties and any other charges incurred till Consignee site) of a group of items.**
4. All the items under this tender must be quoted in Indian Rupees only. There will not be any CDEC issued against these items.

Price Format - B (price schedule for Comprehensive Annual Maintenance Contract after warranty period)									
1	2	3	4	5	6	7	8	9	10
Sl. No.	Short description of the equipment	Quantity as per List of Requirement	Year wise charges per unit for annual comprehensive maintenance contract in INR					Charges for 5 years per unit (4+5+6+7+8)	Total Charges for 5 years 3 x 9
			6th year	7th year	8th year	9th year	10th year		

GST: ***(included or extra to be shown here)***

(Total charges in words):

Note:

1. All the information must be entered in the relevant columns
2. The cost of CAMC may be quoted along with GST applicable on the date of Tender Opening. The GST to be paid extra, to be specifically stated. In the absence of any later.
   such stipulation the price will be taken inclusive of such taxes and no claim for the same will be entertained
3. Cost of CMC offered will be added in its Net Present Value (at a discounted rate of 10% per year) for Ranking/Evaluation purpose.
4. Items wise CMC cost must be quoted

SECTION – XII
MANUFACTURER'S AUTHORISATION FORM

Team Leader- Admin & Commercial
HLL Mother & Child Care Hospitals Limited

Dear Sir,
Ref: Your TE document No _____ dated _____
We, _____ who are proven and reputable manufacturers of_____(*name and description of the goods offered in the tender*) having factories at_____, hereby authorise Messrs_____(*name and address of the agent*) to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.
We also state that we are not participating directly in this tender for the following reason(s):
_____
We further confirm that no supplier or firm or individual other than Messrs. _____ (*name and address of the above agent*) is authorised to submit a tender, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.
We also hereby extend our full warranty, CMC as applicable as per clause 15 of the General Conditions of Contract 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
We also confirm that the price quoted by our agent shall not exceed the price which we would have quoted directly"

Yours faithfully,

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

Note:

(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.
(3) The purchaser reserves the right to verify this document with its signatory.

SECTION – XIII
BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/CMC SECURITY

Team Leader- Admin & Commercial
HLL Mother & Child Care Hospitals Ltd.,

Whereas _____ (Name & Address of the Supplier) (hereinafter called "the Supplier") has undertaken , in pursuance of Contract No._____ dated _____ to supply (description of goods & services) (hereinafter called " the contract")

AND WHEREAS it has 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. _____ (Amount of the guarantee in words and figures), and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.
We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.
We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.
This guarantee shall be valid till such time to cover two months beyond the warranty period from the date of Notification of Award i.e. up to _____ (indicate date).

.....
(Signature with date of the authorised officer of the Bank)
.....
Name and designation of the officer
.....

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

PROFORMA `A'

PROFORMA FOR PERFORMANCE STATEMENT

(For the Last Five Years)

Tender Reference No : _____

Date 0f Opening : _____

Time : _____

Name & Address of the Tenderer : _____

Name & Address of the Manufacturer : _____

Order Placed By Full address of Purchaser	Order Number & Date	Description and Quantity of Ordered goods and Services	Value of Order (Rs)	Date of Completion of Contract		Remarks indicating reasons for delay, if any	Have the goods been functioning satisfactorily (attach documentary proof)**
1	2	3	4	5	6	7	8

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

Signature and seal of the Tenderer

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

CONTRACT FORM – B

CONTRACT FORM FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT

Annual CM Contract No._____ **dated**_____

Between: (Address of Head of Hospital)
And : (Name & Address of the Supplier)

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

In continuation to the above referred contract

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

1	2	3	4					5
Schedule No.	Brief description of goods	Quantity (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit Year Wise					Total Annual Comprehensive Maintenance Contract Cost for 5 Years
			1st	2nd	3rd	4th	5th	
			A	B	C	D	E	

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

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

3. The cost of Annual Comprehensive Maintenance Contract (CMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period may be quoted for next 5 years as contained in the above referred contract on yearly basis for complete equipment (including X ray tubes, Helium for MRI, Batteries for UPS, other vacuumatic parts, _____ & _____) and Site Modification Work (if any).
4. There will be 95% uptime warranty during CMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CMC period by double the downtime period.
5. During CMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/ technical/ operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 6 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.

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

_____
(Signature, name and address of Hospital authorized official)
For and on behalf of_____
Received and accepted this contract.

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

SECTION – XIV

RECEIPT CERTIFICATE

(To be given by consignee's authorized representative)

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

1	Contract No. & Date	
2	Supplier's Name	
3	Name & Address of Delivery Place with Telephone No & Fax No.	
4	Name of the items supplied	
5	Quantity Supplied	
6	Date of Receipt by the Hospital Authority/ Purchaser	
7	Name and designation of Authorized Representative of Hospital/ Purchaser	
8	Signature of Authorized Representative of Purchaser/Hospital	
9	Seal of the Hospital Authority/Purchaser	

SECTION- XV

List of Hospitals/Districts of Uttar Pradesh	
1	Ambedkar Nagar
2	Aauriya
3	Azamgarh
4	Bagpat
5	SantKabir Nagar
6	Etah
7	Hardoi
8	JyotibaPhule Nagar (Amroha)
9	Kannauj
10	Kaushmabi
11	Kushinagar
12	Maharajganj
13	Siddharth Nagar
14	Mau
15	Pratapgarh
16	Jaunpur
17	Gorakhpur
18	Ghazipur
19	Deoria
20	Ballia

Signature of Authorized Person

Date : Full Name:

Place : Company's Seal:

Section XVI
Check List

Sl No.	Criteria	Page no.
1	Whether Earnest Money Deposit applicable as per NIT submitted in form of DD/Banker's Cheque/Bank Guarantee?	
2	In case EMD is not applicable, whether copy of valid registration details with DGS&D or NSIC submitted (such registration reference and expiry date to be mentioned in the Remarks column)	
3	Whether Tender Form as per Section X submitted	
4	Whether Power of Attorney in favor of the person **who is signing the tender(s)** is submitted	
5	Whether Certificate of Incorporation in favour of the bidder or a partnership deed (for partnership firm) or a declaration in case the bidder is a proprietary firm is submitted	
6	Whether self-attested copies of VAT/GST registration certificate and PAN Card submitted. *(Please indicate reference numbers in the Remarks column)*	
7	Whether submitted a non-conviction /no pending conviction certification issued by Notary on judicial stamp paper for preceding three years.	
8	Whether submitted a notarized affidavit that the 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.	
9	Whether submitted a self-declaration on Rs. 10/- non-judicial Stamp Paper that the rates quoted in the tender are the lowest and not quoted less than this to any Government Institution (State/Central/other Institute in India)	
10	Whether the bidder is eligible for price preference to small-scale sectors etc. and purchase preference to central public sector undertakings as per MSMED Act 2006	
11	If the answer at sl. no.11 above is 'Yes', whether the bidder firm is owned by SC/ST	
12	Whether Tender Validity is minimum 15 months from the date of tender opening	
13	Whether Manufacturer's Authorization Form submitted for the items mentioned in the SIT, in case of Tenderer/Agent who quotes for goods manufactured by other manufacture **as per Section XII strictly as per the prescribed format. For grouped events having multiple items, Manufacturer authorization form must mention all the equipment separately.**	
14	Whether Performance Statement as per section IX along with relevant copies of orders and end users' satisfaction certificate submitted.	
15	Whether Price Schedule(s) filled up as per instruction with all the details including Price,	

	Make, Model, Country of Origin etc. of the goods offered	
16	Whether submitted the Name and full address of Banker(s) along with Account Number in favour of Bidder	
17	Whether Abridged Annual report of last 03 years (Balance sheet and Profit & Loss Account) completed till December 2016, in pdf format submitted	
18	Whether Warranty, CMC terms as per the TED are acceptable	
19	Whether all terms and conditions of TE document including Payment terms, Delivery terms, Delivery period, Dispute Resolution Clause etc. are acceptable	
20	Whether Quality Control Requirements submitted	
21	The startups claiming exemption on the required prior experience, and complying the condition of GIT Clause 35.3 (iv), should furnish along with the bid (i) All necessary documents in support of the claim regarding exemption on prior experience as mandated by concerned Ministry/ Board of Govt. of India. Notwithstanding anything stated above, the Purchaser reserves the right to verify/ consider, whether the firm/ entity is eligible for exemption regarding prior experience requirement.	
22	Whether given an affidavit as under: “We hereby certify that if at any time, information furnished by us is proved to be false or incorrect, we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the earnest money.”	