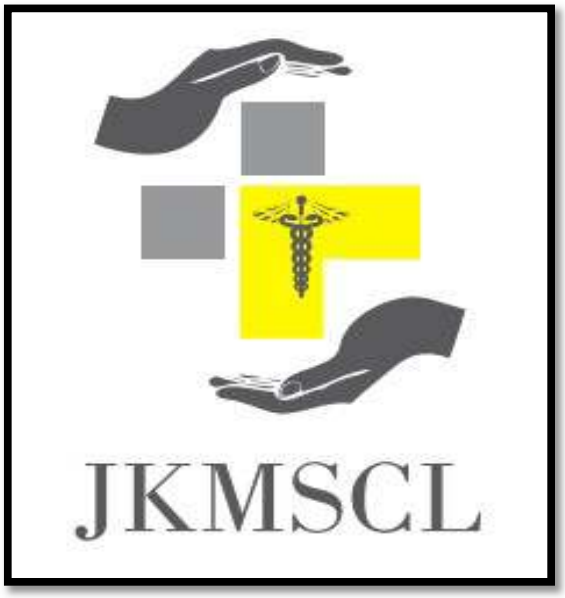
JAMMU AND KASHMIR MEDICAL SUPPLIES CORPORATION LTD.
(Public Sector Undertaking of the Government of Jammu and Kashmir)
Corporate Head Office: Plot No. 58, Friends Colony Satyam Road Trikuta Nagar Jammu
Corporate Office: Opposite J&K Motor Garage Deptt near Hajj House Bemina Srinagar
Telephone: 0191-2478842; 191-3510489 (Jammu), 0194-2490662 (Srinagar)
email:mdjkmscl2@gmail.com; gmjjkmscl@gmail.com **website**: www.jkmsclbusIness.com



E-BID FOR THE PROCUREMENT OF MACHINERY & EQUIPMENTS

(REFERENCE NO: NIT/JKMSCL/M&E/2026/690 DATED: 25/04/2026

LAST DATE OF SUBMISSION OF ONLINE BIDS: 08-06-2026 upto 1600 hrs

Important Note: *Each page of e-Bid should be properly page marked and indexed. Page Number should be reflected at the bottom of each page. All documents requested in "Annexure-II", should be reflected in the column mentioned against each (Page No. ___). Any deviation may result in rejection of the bid and the bidder shall be solely responsible for the same.*

BIDDING DOCUMENT FOR PROCUMENT OFMACHINERY & EQUIPMENTS

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*(**To be submitted on letter head of Firm**)*

Bid Submission Letter
(Declaration Form)

Sub: - Regarding Bid submission for **NIT/JKMSCL/M&E/2026/ 690** **DATED 25 -04-2026**

I/We…..... *(Name, Designation and Address of Bidder)* having our office at…..... *(Address of Firm)* do hereby declare that I/We have read all the terms & conditions of the bid document floated by JKMSCL and agree to abide by all the terms & conditions set forth therein.

I/We declare that we are participating in this bid in the capacity of ……..…..…… *(Manufacturer /Direct Importer/ Authorized representative of the original manufacturer)* I/We have enclosed all the requisite documents and are as per the requirement of the NIT.

I/We further declare that the rates offered by us shall remain valid for the period of 24 months extendable for a further period of three months and shall reduce the rates, if the rates are reduced by us for any other buyer during this period within Union of India. I/**We have enclosed the documents as per details given in Annexure I of the NIB and other documents asked in NIT.**

We further undertake to abide by all the terms & conditions of the NIB.

Dated Name and signature of bidder with seal

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Tender No. NIT/JKMSCL/M&E/2026/690
Dated: 25 /04/2026

NOTICE INVITING TENDER

On Behalf of Jammu & Kashmir Medical Supplies Corporation Limited, e-bid under two cover system (Technical bid in cover 1 and Financial bid in cover-2) is invited for the finalization of Rate Contract for the procurement of "**Machinery & Equipment"** from the Original manufacturers / Direct importers/ Authorized Representatives of the manufacturers/ direct importers. Detailed tender document may be downloaded at J&K Govt. Portal www.jktenders.gov.in, www.jkmsclbusiness.com. The cost of the tender along with tender processing charges of Rs.10,000/- + 18% GST = 11,800/- (i.e Rupees Eleven thousand Eight Hundred only/-) i.e. Rs.1,000/- + 18%GST= 1180/- (Rupees one thousand one hundred eighty only) as cost of tender & Rs.9,000/- + 18% GST = 10620/- (Rupees Ten thousand Six hundred twenty only) as tender processing charges shall have to be paid either through **NEFT/RTGS only** in the Corporation's Bank Account No. 0373040500000032 maintained at J&K Bank Limited, Branch Medical College Jammu, IFSC Code JAKA0MEDJAM **or by depositing the amount directly into the above Account No**. along with the submission of requisite valid documentary proof.

- **IMPS mode of transfer is not verifiable and hence shall not be entertained as tender fee or tender processing charges. Bidders claiming to submit money through IMPS Mode shall be out-rightly rejected.**
- **DD as mode of payment for cost of tender/tender processing fees/Bid Security shall only be entertained if the same is deposited physically against proper receipt in the Corporate Office of JKMSCL, before the closing due date of e-bid.**
- **Bid Security** Rs. 1,00,000.00 in the form of FDR/CDR/BG/RTGS/NEFT (FDR/CDR from scheduled/Nationalised Bank / BG from Nationalised Bank) with validity of 30 months. Bids submitted without sufficient bid security & validity shall be summarily rejected. **Firms which are registered as (Micro and Small Enterprise) MSEs Unit(s) as defined in MSE Procurement Policy issued by Department of Micro, Small and Medium Enterprises (MSME) shall be considered for Exemption of bid security including tender fee of Rs. 1000/- as per provisions of MSME Policy. Tender Processing charges of Rs. 9000/- is to be paid by the MSE Unit(s) also.**
- Physical hard copy of Bid Security in form of FDR/CDR/BG may be submitted to the Corporate Head Office before closing the due date of e-bid. Scanned copy of the same shall be uploaded along with Technical Bid, failing which bid shall be out rightly rejected.
- **The bidders seeking EMD exemption must submit the valid supporting document for the relevant category. Under MSE category only manufacturers for goods and service providers for services are eligible for exemption from EMD. Traders are excluded from the purview of this Policy.**
- **Scanned copies of NEFT/RTGS/Bank Transfer/Receipt towards the cost of tender documents and tender processing charges shall have to uploaded along with Technical Bid, failing which bid shall be out rightly rejected.**

-

- Sd/-
Managing Director
Jammu and Kashmir Medical Supplies Corporation Ltd.

Note: 1. ***The bidders who opt to bid for multiple manufacturer for different items shall have to provide complete details of each manufacturers in a systemic way covering all documents asked in Cover-A. Separate sheet shall have to be attached for every individual item. Multiple manufacturers are not allowed for quoting the same item.***

2. Every participating supplier/contractor to mandatorily disclose the Bank account number which is linked with GSTIN at the time of bid submission. No payments shall be released by the Govt. Department/Agency to any other bank account except the one linked with the GST regarding number of the successful bidder"

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email:mdjkmscl2@gmail.com; gmjjkmscl@gmail.com**website**: www.jkmsclbusIness.com

BIDDING DOCUMENT FOR
Procurement of Machinery & Equipment

Tender No.NIT/JKMSCL/M&E/2024/ 690	**: 25-04-2026**
Date of publication of e-bid	: 25-04-2026
Start date and time for download of bid document	: 25-04-2026
Last date and time for download of bid document	: 08-06.2026 at 1600 hrs
Clarification start date	: 25-04.2026 at 1100 hrs
Clarification end date	: 06-05-2026 upto1400 hrs
Pre- bid conference	**: 06-05.2026 AT 11.00 A.M**
	(at Corporate Office, Jammu/Srinagar)

Google code for Pre bid Conference https://meet.google.com/pia-bmgv-fbj

Start date and time for submission of online bids	: 25-04-2026 at 1500 hrs
Last date and time for submission of online bids	: 08-06-2026 at 1600 hrs
Date and time for online opening of technical bids	: 10-06-2026 at 1100 hrs
Cost of tender document	: Rs. 1000/-
Tender Processing charges	: Rs. 9000/-

ADDRESS FOR COMMUNICATION:
Managing Director or General Manager,
J&K Medical Supplies Corporation Ltd,

Address: Plot No. 58, Friends Colony
Satyam Road Trikuta Nagar, Jammu
Bemina Near Haj House- Srinagar
(Kashmir)

Note: -

1. The bidder shall have to get themselves updated with the date & time fixed for Pre-bid as per the item list. After pre-bid meeting necessary changes in bid conditions shall be done with the recommendations of panel of technical experts drawn from the intending department after the approval of the competent authority. Bid should be submitted through e-portal www.jktenders.gov.in after pre-bid meeting including all the clarifications/ modifications/ amendments.
2. Corrigendum/addendum shall be the integral part of terms & conditions of bid which shall be duly signed and attached with the bid document by the bidder.
3. The JKMSCL is not bound to accept the lowest bid and may reject any/part thereof

or all bids without assigning any reason thereof.

4. The bidders shall have to submit a **GST No. and valid 'GST'** clearance certificate/returns submitted from the taxation department and the 'PAN' issued by income tax department.
5. It is clarified that the information required in bidding document should be submitted only in enclosed format bidding forms without any change or modification in its formats. Bids submitted with changed or modified annexure/ formats shall be rejected.
6. Information of award of contract shall be communicated to all participating bidders on the website www.jktenders.gov.in. www.jkmsclbuisness.com

Note: -

If any amendment/clarification is carried out in the technical specifications and bid terms & conditions following pre-bid meeting or any other information, the same shall also be uploaded on the websites mentioned above and the bidders shall keep themselves updated by regularly visiting the website/jk portal.

Important Note:

1. **No representation shall be allowed, accepted and entertained after the Pre-bid meeting (i.e upto 4.00 P.M of Pre-bid date). Bidders are requested to submit their queries/clarifications by or before the date fixed (mentioned above), so that the same can be discussed and clarified during the Pre-bid meeting.**
2. **E mail id for pre bid conference- prebid.jkmscl@gmail.com**

TABLE-1

S. No	Item Code	NAME OF THE EQUIPMENT	Average Annual turnover for last 03 years
1	GMCS01	Pediatric ICU Beds (High end)	05 Crore
2	GMCS02	Advanced 64 Channel EEG Machine	50 Crore
3	GMCS03	Transport Ventilator	05 Crore
4	GMCS04	Near infrared Spectroscopy Patient monitoring with upgradable – Advanced Parameters, Remote Monitoring and Hospital Automation	05 Crore
5	GMCS05	Multipara Monitor with invasive blood monitoring system with transducers	05 Crore
6	GMCS06	Portable digital X-ray machine	05 Crore
7	GMCS07	High frequency ventilator	05 Crore
8	GMCS08	Pulse Oximeter monitor	05 Crore
9.	GMCS09	Vital Sign Monitor	05 Crore
10	GMCS10	24 hour Pediatric Holter machine	05 Crore
11	GMCS11	24 Hour Ambulatory BP Monitoring Machine	05 Crore
12	GMCS12	Donor Human Milk Bank	50 Crore
13	GMCS13	Fiber Optic Pad LED Phototherapy	05 Crore
14	GMCS14	Neonatal Incubator	05 Crore
15	GMCS15	Transcutaneous Bilirubinometer	05 Crore
16	GMCS16	High Flow Nasal cannula therapy device	05 Crore
17	GMCS17	Infant weighing scale	05 Crore
18	GMCS18	ABG Analyzer/Blood gas analyzer	05 Crore
19	GMCS19	Neonatal Whole Body Cooling Unit/ Neonatal Hypothermia Unit	05 Crore
20	GMCS20	Bubble C-PAP	05 Crore
21	GMCS21	Amplitude EEG System	05 Crore
22	GMCS22	Defibrillator	50 Crore
23	GMCS23	LED Phototherapy	05 Crore
24	GMCS24	FOT Machine (Forced oscillometry)	05 Crore

25	GMCS25	PC Based Spirometry	05 Crore
26	GMCS26	Sweat Chloride Analysis System	05 Crore
27	GMCS27	Infant Warmer Imaging Device	05 Crore
28	GMCS28	Infant Warmer Transport Device	05 Crore
29	GMCS29	Portable Etco3 Monitor	05 Crore
30	GMCS30	Real-time Flash Glucose Monitoring Sensor	05 Crore
31	GMCS31	High-Speed Video Microscopy (HSVM)	05 Crore
32	GMCS32	Paed ICU bed: (Economical)	50 Crore
33	GMCS33	Mobile C-Arm (Fluoroscopy) Machine	05 Crore
34	GMCS34	Portable POC USG with functional ECHO	05 Crore
35	GMCS35	Handheld Portable USG Machine	05 Crore
36	GMCS36	Point of care Ultrasound with Cardiac Probe	05 Crore
37	GMCS37	Inhaled Nitric Oxide Delivery System (i NO)	05 Crore
38	GMCS38	Pediatric/Neonatal Video Bronchoscopy system	05 Crore

The Average Annual Turn Over required for the above items pertaining to Group "Procurement of Machinery & Equipment" is mentioned above. Only the bid(s) falling under the category as specified under Annual Turnover is accepted. The bid(s) not falling under the Annual Turnover clause shall be out rightly rejected. Only manufacturer(s) or Importer(s) fulfilling the turnover clause shall be eligible to participate the e.bid.

Important Note:

1. The catalogues/brochures of the item shall be submitted along with the EMD in separate envelopes, prior to submission of online bids. The catalogues/brochures pertaining to the equipment information should be signed by the authorized signatory of the manufacturer.
2. No minimum quantity is guaranteed and the bidder shall not claim any compensation from the Jammu & Kashmir Medical Supplies Corporation Ltd.
3. Financial Bids of only those bidders shall be considered for opening after being recommended by the Technical Experts, from the concerned Department, out of the bidders recommended by the subcommittee after evaluation of Technical Bids and acceptance of Technical Evaluation/Advisory Committee.
4. **In case of any default by the bidder, at any stage of tender or subsequent approval by JKMSCL, for a particular items/s, the Disciplinary Committee/ any other committee constituted for the purpose shall be at liberty to take appropriate action as per provisions of Standard Procurement Procedures (SPP) and / or Policy for Blacklisting of JKMSCL.**

DISCLAIMER

The information contained in this bid document for proposed procurement or subsequently provided to the Bidder(s), in documentary or any other form by or on behalf of the Jammu and Kashmir Medical Supplies Corporation ltd. (procuring entity) or any of its employees or advisors, is provided to bidder(s) on the terms and conditions set out in this bid and such other terms and conditions subject to which such information is provided to the bidder.

Whilst the information in this bid has been prepared in good faith and contains general information in respect of the proposed procurement, the bid is not and does not purport to contain all the information which the bidder any require.

Jammu and Kashmir Medical Supplies Corporation Ltd., does not accept any liability or responsibility for the accuracy, reasonableness or completeness of, or for any errors, omissions or misstatements , negligent or otherwise, relating to the proposed procurement, or makes any representation or warranty, express or implied, with respect to the information contained in this bid or on which this bid is based or with respect to any written or oral information made or to be made available to any of the recipients or their professional advisers and liability therefore is hereby expressly disclaimed.

This document is neither an agreement and nor an offer or invitation by the Jammu and Kashmir Medical Supplies Corporation Limited, (hereinafter referred to as "procuring entity") to the prospective bidders or any other person. The purpose of the bid document is to provide interested parties with information to assist the formulation of their proposal/offer. The information contained in this bid document is selective and is subject to updating expansion, revision, and amendment. Each recipient must conduct its own analysis of the information contained in this bid document or to connect any inaccuracies therein that may be in this bid document and is advised to carry out its own investigation into the proposed procurement, the legislative and regulatory regime which applies thereto and by and all matters pertinent to the proposed procurement and seek its own professional advice on the legal, financial, regulatory and taxation consequences of the entering into any agreement or arrangement relating to the proposed procurement.

This bid document includes certain statements, estimates and targets with respect to the procurement. Such statements, estimates and targets reflect various assumptions made by the procuring entity, (and the base information on which they are made) which may or may not prove to be correct. No representation or warranty is given as to the reasonableness of forecasts or the assumptions on which they may be based and nothing in this bid document is, or should be relied on as, a promise, representation, or warranty. Bid document and the information contained therein is meant only for those applying for this procurement, it may not be copied or distributed by the recipient to third parties, or used as information source by the bidder or any other in any context, other than applying for this proposed procurement.

The procuring entity is, its employees and advisors make no representation or warranty and shall have no liability to any person, including any bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this bid document or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the bid document and any assessment, assumption, statement or information contained therein or deemed to form part of this bid document or arising in any way for participation in this bidding process.

The procuring entity also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any bidder upon the statements contained in this bid document.

The procuring entity may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this bid documents.

The issue of this bid document does not imply that the procuring entity is bound to select a bidder or to appoint the selected bidder or bidder, as the case may be, for the procurement and the procuring entity reserves the right to reject all or any of the bidders or bids at any point to time without assigning any reason whatsoever.

The bidder shall bear all its costs associated with or relating to the preparation and submission of its bid including but not limited to preparation, copying, postage, delivery fees, expenses associated with any demonstrations or presentations which may be required by the procuring entity or any other costs incurred in connection with or relating to its bid. All such costs and expenses shall remain with the bidder and the procuring entity shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a bidder in preparation or submission of the bid, regardless of the conduct or outcome of the bidding process.

Any information/documents including information/ documents pertaining to this bid or subsequently provided to bidder and/or selected bidder and information/documents relating to the bidding process; the disclosure of which is prejudicial and/or detrimental to, or endangers, the implementation of the procurement is not subject to disclosure as public information/documents.

Managing Director
Jammu and Kashmir Medical Supplies Corporation Ltd

Section-I Instruction To Bidders (ITB)

Before uploading bid, kindly go through the following instructions carefully so that your bid may not be considered invalid:

Clause No.	Description
1.	Go through the terms and conditions, annexure and other forms of the document carefully and meticulously & get your digital signatures available for uploading.
2.	Bid form must conform the terms & conditions of the bid documents and **Technical Bid in Cover- 'A' & Financial Bid in Cover-'B' to be uploaded on** www.jktenders.gov.in**. The receipt for cost of tender, tender processing fee and catalogues of the quoted items shall be submitted in the office of JKMSCL atleast one day prior to submission of online bids.**
3.	It is expected from all bidders that CDR/FDR/BG in separate envelope shall be deposited with the authorised person of JKMSCL at reception against proper receipt from the concerned.
4.	Correspondences/Complaints lodged to JKMSCL should bear signature, name, I.D proof and mobile number of the complainant. Unauthenticated correspondence/complaints may not be acted upon. If any bidder intends to lodge a complaint or make a suggestion with regards to some bid condition, it shall be done in the Pre-bid conference, in the office of JKMSCL in writing. After the stipulated period as decided by the JKMSCL, no such complaint/ suggestion would normally be considered.
5	Certificates/Licenses/Documents which are required should be complete and updated. The bidder shall submit acceptance of terms and conditions of the tender document.
6	If there is any query in bid document/uploading process, bidder may contact JKMSCL office at Jammu/Srinagar during working hours i.e 1000 hrs to 1600 hrs on ph. 0191-2478842; 191-3510489, 0194-2432008 or e-mail on gmkjkmscl1@gmail.com/ jkmsclepm@gmail.com / gmjjkmscl@gmail.com
7.	In case a bidder is given any assurance what so ever of being provided with any advantage in JKMSCL by anybody or if a bidder is directly or indirectly threatened of being put to some deliberate disadvantage in the bidding process & in the bidder's subsequent association/ working with JKMSCL, it is requested that the concerned must immediately inform about the same to the Managing Director, JKMSCL/G.M-J(Adm), JKMSCL in writing or through e-mail on gmjjkmscl@gmail.com. It is advised that evidence of such unfair activity of such person, if available, is produced along with the complaint, so that action can be taken against such a person(s) and that their details can be put on the website so that other bidders can be forewarned in this regard.
8	The Bidders shall have to submit a GST No. & GST clearance certificate/return submitted from the concerned commercial taxes officer and the 'PAN' issued by income tax department.

9	It is clarified that the information required in bidding document should be uploaded as per enclosed bidding form without any change or modification in its formats. Bids submitted with changed or modified annexure/ formats shall out rightly be rejected.
10	The declaration of technical bid in respect of responsive/non responsive bidders shall be uploaded on website www.jktenders.gov.in Similarly, information regarding financial bid (L-1) shall also be provided to bidders on above websites. Individual bidders shall not be informed separately.
11	**No firm/bidder/manufacture/importer shall provide/supply any of the product item at the rate contract /approved by JKMSCL to any of the department/NGO/other procuring institute within or outside the Union Territory of J&K. In case any supply is made in violation to the said condition (or), the supplier/firm shall be liable to be penalised to the tune of 7.5% of order placed/blacklisting for a period not less than five years (or) both as deemed fit, to the competent/Tender Inviting Authority. However, JKMSCL can procure the items for any of the departments within /outside the Union Territory of J&K/after charging the administrative expenses.**
12	**The qualified bidders are required to submit the relevant documents and annexure uploaded with their e.bid in original along with catalogues at the time of issuance of LOI /execution of agreement before issuance of rate contract.**
13	**The bidder shall not under any circumstances quote "Zero" anywhere in the BOQ.**
14	**Important Instructions to bidders** **The bidders shall have to abide the clauses/restrictions in terms of Rule 144 (xi) of the General Financial Rules (GFRs) issued by the Ministry of Finance, Department of Expenditure, Public Procurement Division vide No. F.No.6/18/2019-PDD dated 23.07.2020.** **The bidders are required to submit a certificate/ declaration regarding their compliance with this order. If such certificate given by a bidder whose bid is accepted and is found to be false, it will be a ground for immediate termination & further legal action in accordance with law. Bidders are required to go through the said order & Office Memorandum (s) for the necessary compliance** **Model Certificate for tenders** *"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India. I hereby certify that this border is not from such a country and is eligible to be considered."* **Model Certificate for Tenders** *"I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fullfills all requirements in this regard and is eligible to be considered (where applicable, evidence of valid registration by the competent Authority shall be attached"*

Section-II: Bid Data Sheet (BDS)
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Section III: Evaluation and Qualification Criteria

2. Qualification Criteria

The lowest evaluated bidder shall have the necessary qualifications to successfully fulfil its obligation under the contract. Minimum acceptable levels with regards to bidder's experience in supply of goods and related services with comparable technical parameters, its financial capability and other factors are defined.

Clause No.	Description
1.	**Contractual experience:-** The bidder shall be an original manufacturer; direct importer; (or) authorised representative of the original manufacturer/direct importer, who must have manufactured/ imported, supplied and installed such equipments in India satisfactorily. The list of such installations may be asked from the bidder and the bidder should submit self attested copy of purchase order, indent and invoice (inclusive of quantity & rate).
2.	**Technical experience:-** Client Base on Letter Head of the Bidder / Manufacture/Indian Subsidiary of Principal Manufacturer with references of the supply orders, for any of the three financial years in last five financial years along with satisfactory performance certificate of **minimum one Purchase Order and installation report of Govt. Institution (Copies of reference supply orders and satisfactory performance certificate need to be attached)**
3.	**Production capacity :** The JKMSCL may fix the minimum supply and/ or production capacity required to assure that the bidder is capable of supplying the type, size and quantity of goods required. It should be dedicated quantity to JKMSCL on monthly and annual basis. Production capacity certificate be attached with uploaded document.
4.	**Financial position:-** The soundness of the bidders financial position showing long term profitability demonstrated through audited annual financial statement (balance sheet, income statement etc.) for last three years.
5.	**Cash Flow capacity :** The bidder should have sufficient availability of/ access to liquid assets, lines of credit and other finances to meet the possible cash flow requirement which may arise during the execution of the rate contract.
6.	**Litigation history:-** The information regarding all pending claims, arbitration, or other litigation is asked by the JKMSCL
7.	**Tax clearance certificates:-** The Latest GST returns and other tax clearance certificate (latest) or declaration to be submitted by the bidder. Bidders shall have to submit a valid & latest 'GST' clearance certificate/return submitted online as per GST rules along with GST No. and the 'PAN' issued by concerned department.
8.	**Declaration regarding qualifications :-** Declaration regarding qualifications of the bidder shall be given in specified format provided in bidding forms.

1. Evaluation Criteria

Claus	Description
1.	**Scope**
1.1	**Local handling and inland transportation:-**The cost for Inland transportation, insurance, related services, installation, commissioning, demonstration and other incidental costs for delivery of goods, or port of entry, or supply point to consignee site, schedule of supply shall be quoted in price schedule.
1.2	**Minor omission and missing items:-** Pursuant to the relevant clauses, the cost of all quantifiable non-material non-conformities or omissions from the contractual and commercial conditions shall be evaluated. The procuring entity will make its own assessment of the cost of any non-material non-conformities and omissions for the purpose of ensuring fare comparison of bids.
2.	**Technical Criteria:-**The minimum technical level that the goods and related services shall have in order to comply with the Section V, schedule of supply are specified. These criteria are evaluated on a pass-fail system, with a minimum acceptable level for each criteria enumerated in technical specifications of item. However, a minor deficiency in technical compliance may not be cause for rejection of the bid.
3.	**Economic Criteria: -** The economic criteria are most important when evaluating a Bid. The price, however, may not be the only criterion, as there could be technical evaluation that may be expressed in mandatory terms *i.e.* cost per test etc. The following may be examples: - 3.1, 3.2....
3.1	**Adjustment for deviations in the delivery and completion schedule: -** The deviation from the delivery and completion schedule specified in Section V, schedule of supply are permitted. No credit will be given for earlier completion.
3.2	**Operation and maintenance cost:** The operation and maintenance costs of equipments are taken into account for bid evaluation purposes. The methodology is elaborated at BOQ for determining lowest bid (L-1).
3.2	**Spare parts: -** Only those spare parts and tools which are specified on an item wise basis in the list of goods and related services, schedule of supply shall be taken in account in bid evaluation. Supplier recommended spare parts for specified operating requirement shall not be considered in bid evaluation. **The price for evaluating L1 (as per BOQs) shall be decided on the basis of cumulative rates of Main item, Accessories (wherever asked) /Indian items (wherever asked) i.e cost of main item + cost of Accessories = Total cost of equipment.**
3.3	**Performance and productivity of goods:-** The performance and productivity of the equipments shall be as per the reference value or norms specified in technical specification of an item and corresponding value guaranteed by the bidder in its bid.
4.	**Price preference:-**
4.1	The price preference shall be given in evaluation of bids and award of contract as per MSME Policy in vogue.
4.2	**Taxes as** applicable, should be mentioned clearly and separately.

Section IV: Bidding Forms

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(**Annexure I)**

On Firm's letter head

LIST OF ITEMS QUOTED IN THE BID

S. No.	Tender Sr. No.	Code	Name of Item	Manufactured By	Imported by	Make & Model quoted/ offered	**Quality Certification**				
							BIS License	ISO		USFDA	Any Other

Seal & Signature
(Authorised Signatory)

Annexure II

(To be submitted on Firms' letter head)

Technical Bid Submission Sheet (Cover 'A')

Managing Director

Jammu & Kashmir Medical Supplies Corporation Ltd.
J&K

We, the undersigned, declare that:

1. I/We ……. ……have examined and have no reservations to the bidding document of NIB No. ..... dated.....including addenda/clarification No.:.....dated ..... We offer to supply in conformity with the bidding document and in accordance with the delivery schedule specified in Section V, schedule of supply, the following goods and related services..... *Name of the item and Warranty period plus etc.* .....
2. Our bid shall be valid for a period of minimum 120 working days from the date of technical bid opening in accordance with the bidding document, and it shall remain bidding upon us and may be accepted at any time before the expiration of that period. However, validity may also be extended with mutual consent;
3. If our bid is accepted, we commit to submit a performance security in the amount of 5% of the contract price or as specified in bid document for the due performance of the contract;
4. Our firm, including authorised representative for any part of the contract, have nationalities from the eligible countries;
5. I/We are not participating, as bidders, in more than one bid in this bidding process, in the bidding document;
6. Our firm, its affiliates or subsidiaries, including authorised representative has not been debarred by the Union Govt/any State Government or the procuring entity.
7. I/We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed;
8. I/We agree to permit the JKMSCL to ask any relevant documents. I/We shall be bound to provide the said relevant document within the specified period.
9. My/our quoted items..... *(Name of item)*.....fully comply with the technical specifications as per bid document Section V, schedule of supply.
10. **The bidder shall ensure that the bid document sheet shall be properly filled with particulars, page numbering and tender document should be properly numbered.**
11. I/We certify that I/We have annexed the following documents with particulars & page No. mentioned against each column **:**

S. No	Item	Particular	Manufacturer			
			M1	M2	M3	M4
1.	Bid security (as mentioned above)					
2.	Cost of Tender & Tender Processing charges					
3.	List of Items quoted by the Bidder mentioning name of manufacturer/ importer with make & model as per annexure.	Annexure I				
4	Copy of Catalogue of the Quoted product (self attested)					
5	Compliance Sheet for each equipment (self					

	attested)					
6	Technical bid submission sheet duly filled	**Annexure II**				
7	Financial bid (To be uploaded in BOQ only)	**Annexure III**				
8	**Declaration for Latest Non Conviction, non blacklisting on non judicial Stamp paper of Rs 100 furnished by the Principal** Manufacturer / Sole Importer/ Indian Subsidiary as per proforma duly notarised.	**Annexure IV A**				
9	**Declaration for Latest Non Conviction, non blacklisting on non judicial Stamp paper of Rs 100 furnished by the Bidder** as per proforma duly notarised.	**Annexure IV B**				
10	Client Base on Letter Head of the Bidder / Manufacture/Indian Subsidiary of Principal Manufacturer with references of the supply orders, for any of the three financial years in last five financial years along with satisfactory performance certificate of **minimum one Purchase Order and installation report of Govt. Institution (Copies of reference supply orders and satisfactory performance certificate need to be attached)**	**Annexure V**				
11	**Authorisation from principal manufacturer / Importer** *(On the letterhead of Principal manufacturer / Sole Importer)* *In case authorization to the bidder is furnished by the Sole Importer/Indian Subsidiary, document confirming authorization from foreign Principal Manufacturer in favour of Indian Subsidiary / Sole Importer is to be submitted* ***(strictly as per annexure VI)***	**Annexure VI**				
12	Average Annual Turnover Statement for Last 3 financial Years of the Indian Subsidiary of Principal Manufacturer/ Sole Importer issued by Chartered Accountant/competent authority with UDIN (2022-23, 2023-24 and 2024-25). ***In case of foreign manufacturer the turnover of Indian Subsidiary/Sole Importer only shall be considered and not of the original manufacturer.***	**Annexure VII**				
13	Copies of Audited Balance sheet & profit loss account for last three financial years certified by Chartered Accountant of the Importer/ Indian Subsidiary for 2022-23, 2023-24 and 2024-25 with UDIN. ***In case of foreign manufacturer the balance sheets of Indian Subsidiary/Sole Importer only shall be considered***					
14	Nature of the Firm/Public Company / Private Company/ Partnership/ Proprietorship/any other with Documentary proof.	**Annexure VIII**				

15	Self attested photocopy of IEC certificate and Permission/ Authorization for sale for sale from the foreign principle manufacturer (in case of imported product)	**Annexure A (if applicable)**				
16	Copy of GST Registration of the Bidder	**Annexure B**				
17	Latest GST Returns of the Bidder	**Annexure C**				
18	Copy of the PAN Card of the Bidder	**Annexure D**				
19	Quality Certifications on the products viz. ISI/CE/USFDA etc. whichever applicable.	**Annexure E**				
20	Name, photograph & specimen signature of the designated officer/ representative of the Bidder who is authorized to make correspondence with the JKMSCL, if any.	**Annexure F**				
21	Specify point of supply with full Address. NB: Specifying of point of supply does not means authorization to raise, invoice and receive payments on behalf of bidder(s)	**Annexure G**				
22	Declaration of bidder regarding acceptance Bid for terms & conditions	**Annexure A1**				
23.	Copy of CDSCO Registration Certification, wherever applicable					

Important Note

1. **The bidders who opt to bid for multiple manufacturer for different items shall have to provide complete details of each manufacturers in a systemic way covering all documents asked in Annexure II. Multiple manufacturers are not allowed for quoting the same item.**

2. **Please Note the Annexure A"II" should be properly filled showing the page number when the asked document has been attached. All the documents attached with the technical bid should be properly page numbered.**

I/we understand that our bid shall liable to be declared non responsive in case of any deficiency in fulfilment of above requirements on our part.

I/we accept all the terms, conditions and provisions of this bid document.

Name/Address.....
in the capacity of.....*(Designation)*.....
Signed..... duly authorized to sign the bid for and on behalf of..... *of Firm)*.....
Dated..... Tel:.....e-mail:.....

N.B : The original manufacturer/direct importer of the bidding items/their sole authorised representative shall execute tri-partite agreement with the Corporation i.e JKMSCL, inter-alia, stating that :

i. The invoice submitted by the authorised representative for such supplies shall be endorsed by the original manufacturer/direct importer of bidding items. Original copy of the delivery challan of the manufacturer towards authorised representative for such supplies shall be endorsed along with invoice submitted by Authorised representative.

ii. JKMSCL may secure confirmation/or authenticating of such supplies from manufacturer/direct importer before releasing the payment.

iii. **No original manufacturer/direct importer shall be allowed to authorize more than one representatives to bid, to negotiate/to raise invoice or to receive payments & to enter into tripartite agreement with regard to business against this specific tender**.

iv. In case, original manufacturer/direct importer wish to authorize any representative to bid, to negotiate, to raise invoice to receive payments on behalf of original manufacturer/direct importer/against invoice raised by representative, Annexure AII duly filled shall need to be uploaded along with e.bid ; otherwise no representation in this matter shall be entertained in the later stage.

Annexure III

ITEM WISE FINANCIAL BID (BOQ)

For Uploading Rates of Equipment

Please read the amended BOQ as follows:

i) The rates shall be quoted in the BOQ as per format mentioned below.
ii) The rates of the accessories, if any, shall be quoted cumulative as per NIT.
iii) The rates of the India items, if any, shall be quoted cumulative as per NIT

S. No.	Item Description	Item Code	Unit	Qty	Currency type	Basic Equipment cost for one unit	Packing & forwarding charges/freight insurance charges	Indian Agency Commission for 1 unit in foreign	Custom Duty	SGST	CGST	IGST	Custom clearance in foreign	Total Amount including Taxes
1	2	3	4	5	6	7	8	9	10	11			12	13
1	Main item													
2	Accessories, if any.													
3	Indian items, if any													
5.	Optional Items, if any													

CMC for Ist Year	CMC for 2nd Year	CMC for 3rd Year	CMC for 4th Year	CMC for 5th Year		Total amount CMC
14	15	16	17	18		

Important Note :
The Following Information is Mandatory to be submitted by the suppliers/contractors

Name of the bidder	**Bank Name**	**A/C No. linked with GSTIN**	**IFSC CODE**	**BRANCH**	**STATE/UT**

The following instructions shall be followed : -

1. The rate quote should be as per BOQ.
2. CGST, SGST or IGST should be separately shown in absolute amount only.
3. Rate should be quoted only for packing units as mentioned in the bid
4. No quantity or cash discounts should be offered.
5. Read all the terms & conditions before filling the Annexure III.
6. Please quote rates in absolute amount only.
7. Please quote rates per unit only
8. The bidder shall not under any circumstances quoted “Zero” anywhere in the BOQ.
9. Finalization of the rates shall be made on the basis of price quoted in BOQ
10. Custom duty, if applicable shall be indicated separately.

11. The final rates quoted at Column No. 13 shall be considered as final rates and shall be considered for evaluating financial bid. L1 rate shall be finalised on the basis rate and taxes as applicable.
12. **The price for evaluating L1 (as per BOQs) shall be decided on the basis of cumulative rates of Main item, Accessories (wherever asked) i.e cost of main item + cost of Accessories + Indian items = Total cost of equipment.**

13. **The rates quoted for the CMC (Comprehensive Maintenance Contract) and Optional items shall not be considered for finalizing/deciding L1 rates.**

14. **Warranty of 05 years shall be applicable for Machinery and Two years of instruments.**

15. The bidder may quote in foreign currency as per the BOQ uploaded in the e.portal on the following terms & conditions

(For Imported equipment)

80% payment shall be released in favour of supplies on presentation of shipping documents and balance 20% after successful installation of machine. Bank Guarantee is not required for L.C **Letter of credit would be opened subject to following additional conditions** :

1. At site LC would be opened.
2. A level vessel would be used for shipment of supplies which should not be more than 15 years old.
3. Supplies shall be insured vide comprehensive Insurance Policy including machine insurance by the OEM till the final delivery site shall also include "Force Majeure".
4. Pre-dispatch inspection shall be carried out by OEM by certified inspection agency before shipment of supply.
5. ***The CIF (cost insurance freight)/CIP (cost insurance price) upto New Delhi, should be in Foreign Currency, payable by the Principal company in that currency only as per the mode of L.C stipulations. The CIF prices shall be borne by the firm upto site.***
6. ***The custom duty shall be paid as per actual on the production of documentary proof. No Custom duty exemption certificate shall be issued by JKMSCL to facilitate custom clearance on the concessional rates.***
7. ***CIF price of optional accessories, if any, Percentage of Indian direct Importer/authorized representative's percentage (Indian agency commission), if any, on FOB (Freight on board) Price which shall be payable to the Indian direct Importer (Indian Agency) in Indian currency at the exchange rate as mentioned below. However local accessories, if quoted in Indian currency, GST shall be paid as admissible under rules.***
8. The prices quoted should be as per the price of the manufacturer applicable in within India.
9. ***The L1 shall be calculated on the basis of conversion of currency as on date of opening of financial bid.***

Delivery Period shall be 60 days for Indian Items and 90 days for Imported items.

PLEASE DON'T WRITE 00 AGAINST THE ITEMS FOR WHICH YOU DIDN'T WISH TO QUOUTE ; INSTEAD, LEAVE THE COLUMN BLANK" AGAINST THE SAID ITEM; AS THE SYSTEM TAKES RS. 00.00 AS L1.

Important Note : Besides custom duty, the firm shall also mention Health cess and Social Welfare cess amount as applicable. Demurrage charges or late fee will not be paid by JKMSCL.

Only the Rates reflected in the comparative sheet in the BOQ (as per format uploaded) shall be considered for ascertaining L1. No Separate rates quoted by the bidders in the BOQ shall be accepted.

Annexure IV A

Declaration and Undertaking by the Bidder

(On Non Judicial Stamp Paper worth Rs. 100/- Attested by Notary Public and submitted with Cover-'A')

1. I/We..... (Name of firm) certify that the quoted model (of quoted item) is of latest technology and is not outdated.
2. I/We certify that the rates (of quoted item) are reasonable and not sold on lower rates to anyone than charged from JKMSCL.
3. I/We do hereby accept condition of warranty period with spare parts of each quoted equipment as per terms & conditions and/or technical specifications. (From the date of installation/ demonstration).
4. (a) I/We do hereby undertake that our company/firm has not been black listed/banned/debarred/Convicted by Union Govt. or any State Govt. or their subordinate departments from participation in bidding.

   (b) I/We do hereby declare that our company/firm has been black listed/banned/debarred/convicted by..... (Name, Address of Govt./dept./State) and detailed information is as given below:
   - (i) Cause of blacklisting/banning/debarring/conviction.
   - (ii) For which item.....
   - (iii) Period of black listing/banning/debarring/ conviction.
   - (iv) Latest Status of black listing/banning/debarring/ conviction.
5. I/We hereby confirm that we have deposited all the GST/all applicable taxes as on date of submission of tender with the concerned authority/department. No GST/other taxes is due on the firm as on date of submission of tender.
6. I/we do hereby agree to the condition that JKMSCL may, if deemed fit go for the third party maintenance under Comprehensive equipment maintenance programme of Govt. of India.

VERIFICATION & DECLARATION

I/we……S/o……..……..……aged……..years residing at .....…… authorized bidder/proprietor/ partner/director of firm M/s…….. verify and confirm that the contents of bidding documents , its bidding forms, Annexure and other information submitted for bid no. ..... are true and correct to the best of my knowledge and nothing has been concealed therein.

In case, any variation/discrepancy/wrong declaration is found during scrutiny at later stages, I/We shall be held personally responsible & JKMSCL may take any action including blacklisting/debarring of my/our firm for a period not less than 05 years

Place :-
Dated:-

Signature of the Deponent
Name :
Designation

Annexure IV B

Declaration of Manufacturer/Direct Importer/Indian Subsidiary

To be submitted on non judicial stamp paper of Rs. 100 duly notarised

Date:_____ NIB No.:

_____

I/We a legally constituted firm/body..... *(Name of Firm/Company with address)* and represented by Mr..... (*Name of Bidder/Sole proprietor/ CMD/ Chairman)* declare that I am/we are ..... (manufacturers/direct importer) in the goods and related services for which I/we have bid.

I/we further declare that:-

1. The items (*Name of item)* is/ are ..... (manufactured/imported) at our premises at ..... *(Address of factory & office)*.
2. I/We..... (Name of firm) certify that the quoted model (of quoted item) is of latest technology and is not outdated.
3. I/We do hereby accept condition of warranty period with spare parts of each quoted item as per terms & conditions or technical specifications. (From the date of installation/ demonstration).
    a. Our company/firm has not been black listed/ banned/ debarred/convicted by Union Govt. or any State Govt. or their subordinate departments from participation in bidding.
    b. Our company/firm has been black listed/banned/debarred/ convicted by ..... (Name, Address of Govt./dept./State) and detailed information is as given below:
        (i) Cause of black listing/banning/debarring/ conviction.
        (ii) For which item.....
        (iii) Period of black listing/banning/debarring/ conviction.
        (iv) Latest Status of black listing/banning/debarring/ conviction.
4. I/We hereby confirm that we have deposited all the GST/all applicable taxes up to the date of submission of tenders with the concerned authority/department. No GST/other taxes is due on the firm as on date.
5. We undertake that in case of change of dealership, we shall be responsible for providing preventive services and maintenance of the equipment free of cost during the warranty period.
6. It is certified by the manufacturer/OEM that the rate quoted would be same as quoted by the bidder had the manufacturer directly participated in the NIT.
7. We fully qualify the laid down terms & conditions of the NIB including Turnover class.

VERIFICATION & DECLARATION

I/we……S/o……..……aged…… years residing at .....…… authorized bidder/proprietor/ partner/director of firm M/s…….. verify and confirm that the contents of bidding documents, its bidding forms Annexure I to Annexure VIII and other information submitted for bid no. ..... are true and correct to the best of my knowledge and nothing has been concealed therein.

In case, any variation/discrepancy/wrong declaration is found during scrutiny at later stages, I/We shall be held personally responsible & JKMSCL may take any action including blacklisting/debarring of my/our firm for a period not less than 05 years

Place :-
Dated:-

Signature of the Deponent
Name :
Designation

Annexure V

Client Base (Item wise)

On letter Head of Bidder / Manufacture/Indian Subsidiary of Principal Manufacturer

I/We..... *(Name of firm.....)* do hereby certify that our client base for the offered equipments are as under **{** Client Base on Letter Head of the Bidder / Manufacture/Indian Subsidiary of Principal Manufacturer with references of the supply orders, for any of the **three financial years** in last five years along with satisfactory performance certificate of **minimum one Purchase Order and installation report of Govt. Institution (Copies of reference supply orders and satisfactory performance certificate need to be attached))} :-**

Item Code	Name of the Item	Client list	Reference to supply order

1. It shall be submitted with technical bid and the above information should be verifiable from relevant documents of the bidder.
2. Firm should have market standing of the quoted product as mentioned above.
3. The different variants of same equipment may be considered.
4. In case of supply of imported item(s), the suppliers may be asked to furnish a certificate and other information to the effect that the firm has completed all the formalities including bill of entries in custom in connection with import of the item in question.

Place:
Date :

Signature of bidder with Seal.

Annexure VI

AUTHORISATION from principal manufacturer/importer/Indian Subsidiary

(On the letterhead of Principal manufacturer / Sole Importer/Indian Subsidiary)
In case authorization to the bidder is furnished by the Sole Importer/Indian Subsidiary, document confirming authorization from foreign Principal Manufacturer in favour of Indian Subsidiary / Sole Importer is to be submitted.

The Managing Director
Jammu and Kashmir Medical Supplies Corporation Limited
J&K

Subject: Regarding authorization for our products.
Ref.: Your NIB no. .....dated..... Name of items.....
Dear Sirs,

I/we.....(Name) for M/S.....*(Name of firm)* who are proven and reputable manufacturers .....*(Name of item)* having factory at ..... *(Address of Factory and Office)* hereby authorize M/S..... *(Name of Bidder firm)* to submit a bid, process the same further and enter into a contract with you against your requirement as contained in the above referred bid documents/NIB for the above goods manufactured / imported by us.

I/we further confirm that no supplier or firm or individual other than M/S..... *(Name of bidder firm),* is authorized to submit a Bid, process the same further and enter into a contract with you against your requirement as contained in the above referred bid documents for the above goods manufactured by us.

I/we also hereby extend our full guarantee, as applicable as per bid conditions of contract, read with modifications/addendum, if any, in the general/special conditions of contract for the goods and services offered for supply by the above firm against this bid document.

I/we also hereby confirm that we shall also be responsible for the satisfactory execution of contract placed on the authorized Firm. In case of default of authorised representative (or) otherwise, we shall also be responsible for the satisfactory execution of contract placed on the authorized Firm & penalty, if any, for non-execution of contract by the authorised representative shall be borne by us.

This authorization shall be valid till the completion of rate contract period and related services i.e. warranty and comprehensive maintenance obligations, etc., whichever is later.

Yours faithfully,

(Name & Signature)..... *verification and signature by bidder*
For M/s ..... Seal and address of bidder
AUTHORISED SIGNATORY

Accepted by the authorized Bidder Mr.....
(Signature, Name & Address).....

Annexure VII

((On letter head of Chartered *Accountant))*

ANNUAL TURN OVER STATEMENT

The average annual turnover of M/S..... *(Name of Firm)*..... and address ..... for the past three years are given below and certified that the statement is true and correct:-

It is further certified that the Annual Turnover Statement has been prepared strictly as per returns filed with Taxation Department for the year 2022-23, 2023-24 and 2024-25 and shall be responsible, if any variation/discrepancy is found during evaluation /later stage.

Sl. No.	Financial Years	Turnover in Lakhs (Rs.)
1.	2022-23	
2.	2023-24	
3.	2024-25	
	Total -	_____Lakhs
Average gross annual turnover		_____Lakhs

Note :

1. To be prepared strictly as per returns filed with Taxation Department & the stamen should be supported with returns filed for the last three financial years.
2. The turnover should be supported by the balance sheets of the respective years.
3. The Certificate issued by Taxation Department shall also be considered for turn over certification.
4. **The Average Annul Turn Over required for the item(s) pertaining to the Group "Procurement of Machinery & Equipment" is as per Table 1. Only the bid(s) falling under the category as specified under Annual Turnover is accepted. The bid(s) not falling under the Annual Turnover clause shall be out rightly rejected.**

Date Signature of the bidder Signature of Auditor/Seal
Chartered Accountant
(Name & Address.)
Tel. No. UDIN NO.

(On Firm's letter head)

Memorandum of Appeal

Appeal no..... of..... Before the.....
(appellate authority)

1. Particulars of appellant:
   (i) Name of the appellant:
   (ii) Official address, if any:
   (iii) Residential address:

2. Name and address of the respondent(s):
   (i)
   (ii)
   (iii)

3. Number and date of the order appealed against and name and designation of the officer/ authority that passed the order (enclose copy), or a statement of a decision, action or omission of the procuring entity in contravention to the provisions of the Act by which the appellant is aggrieved:

4. If the appellant proposes to be represented by a representative, the name and postal address of the representative:

5. Number of affidavits and documents enclosed with the appeal:

6. Ground of appeal:
   .....
   .....
   ..... (supported by an affidavit)

7. Prayer:.....
   ....
   .....

Demand Draft of Rs..... ...bearing No. .....dated ..... as appeal fees

Place .....
Dated .....

Appellant's signature

Section V: Schedule of Supply

Table of Contents

Section V: Schedule of Supply

Clause No.	Description
1	**List of goods and related services**
1.1	Name of item.....
1.2	Related services are delivery, local transportation, installation, commissioning, demonstration and training etc.
1.3	Warranty period starts from the date of successful installation for a period of Five years.
1.4	JKMSCL may, if deemed fit, enter into third party agreement under comprehensive equipment maintenance programme, Govt. of India.
2	**Delivery and completion schedule**
2.1	**SUPPLY ORDERS AND SUPPLY SCHEDULE:**
2.1.1	Supply order shall be placed through registered post/e-mail/any communication medium by the JKMSCL. The date of receipt of e mail/fax/other communication shall be treated as the date of order for calculating the period of execution of order. The successful bidder shall execute the orders within a delivery period of 60 days or as specified in the supply order from the date of issuing supply order and handing over of space with the availability of power & other requisite installations by the end users.
2.1.2	In case of imported items, 30 days will be given in addition to above mentioned period, as mentioned in condition No. 2.1.1 above.
2.1.3	The successful bidder shall acknowledge the receipt of orders, if any, within 7 days from the date of dispatch of order, failing which the procuring entity may be at liberty to initiate action to purchase the items on risk & cost purchase provision. However finalization of annual Rate contract does not mean mandatory issuance of supply order. Supply order shall be as per the requirements of items at various end-users.
2.1.4	The Site of delivery shall be Drug ware House of JKMSCL or as per the requirement of the Department. The bidders can visit the site after seeking permission from the competent authority before quoting their rates.
2.1.5	To ensure sustained supply without any interruption, the JKMSCL reserves the right to have more than one approved supplier from amongst the qualified bidders on L1 matched rates only. In such a case, the requirement may be met by dividing be quantity among the R/C holders considering the quantity required and dedicated capacity of the successful bidders.
2.1.6	The ready stock position of the item, if provided by the firm, may be considered by the corporation for the placement of supply orders.
2.1.7	It may be noted that the JKMSCL does not undertake to assist in the procurement of raw material, whether imported or controlled or restricted, and as such the bidders must offer their rates to supply the specific items from own quota of raw material stock by visualizing the prospect of availability and requirement. Any of the above points if taken, as argument for non-supply/delayed supply will not be entertained.

2.1.8	The figures indicated, if any, do not constitute any commitment on the part of JKMSCL to purchase any of the articles and the quantities shown therein against each or in any quantity whatsoever and no objection against the quantity of the indent of approved item being more or less than the indicative quantity will be entertained and shall not be acceptable as a ground for non supply of the quantity indented.
2.2	**PROCURING ENTITY'S RIGHT TO VARY QUANTITY:**
2.2.1	If the JKMSCL procures less than the quantity indicated in the bidding documents (if asked) the bidder shall not be entitled for any claim or compensation except otherwise provided in the conditions of contract.
2.2.2	If the bidder fails to supply, the JKMSCL shall be free to arrange / procure the item(s) from other sources and the extra cost incurred shall be recovered from the supplier.
2.3	**SUBMISSION OF CONTRACT COMPLETION REPORT**
2.3.1	Firms shall have to submit consolidated statement in duplicate at the end of rate contract as well as after expiry of equipment / instrument warranty period (as provided in guarantee clause of the contract) to enable the corporation to examine the case for refund of performance security.
2.3.2	The consignee shall intimate the contract /supplier about the defect (s) at once in such a manner, so as to reach the office of the firm immediately and before completion of warranty period. It shall be the responsibility of the consignee to get the complaint of warranty period. It shall be the responsibility of the consignee to get the complaint of defective equipment of defective performance registered immediately with the office of JKMSCL.
2.5	**PACKING & INSURANCE:**
2.5.1	The good shall be delivered at the destination in perfect condition. The firm if so desires may insure valuable goods against loss by theft, destruction or damages by fire, flood, under exposure to weather of otherwise in any situation. The insurance charges will have to be borne by the supplier and the corporation shall not be required to pay any such charges, if incurred.
2.5.2	The firm shall be responsible for the proper packing so as to avoid damages under normal conditions of transport by sea, rail, road or air and delivery of material in good condition to the procurement officer's store. In the event of any loss, damage, breakage or leakage or any shortage the firm shall be liable to make good such loss and shortage found at destination after the checking/inspection of material by the consignee. No extra cost on such account shall be admissible. The firm may keep its representative to verify any damage or loss discovered at the consignee's store, if it so likes.
2.5.3	The material received with damaged packing (or) without packing as per terms & conditions of NIT (or) in damaged state, shall be liable to the minimum penalty of 2% of the value of the damaged item (or) quantity received with damaged packing. Further packing, cases, containers and other allied material if any shall be supplied free, except where otherwise specified by the firm(s) and agreed by the corporation and the same shall not be returned to him.

2.5.4.	**Packing specifications** Schedule for packing – General specifications 1. All items should be packed only in first hand boxes only. 2. Label: Every box should carry a large outer label clearly indicated that the product is for **"JKMSCL Supply" for the year, "Not for Sale "** and it should carry the correct technical name, strength or the product, date of manufacturing, date of expiry, quantity packed and net weight of the box in bold letters. **Note: The weight/size of the box for packing the item may vary for the safe delivery/installation of equipment. Any deviation in the packing, if necessary shall be made after getting permission from JKMSCL.**
2.6	**REJECTION OF GOODS:**
2.6.1	Articles not as per specification/ or not approved shall be rejected by the corporation / consignee and will have to be replaced by the supplier firm at its own cost within 15 days or with time limit fixed by the corporation.
2.6.2	All the stores supplied shall be of the best quality and conforming to the specification, trademark laid down in the schedule attached to agreement and in strict accordance with and equal to the approved, standard/specifications/ samples. In case of any material of which there are no standards or approved samples, the supply shall be of the best quality to be substantiated by documents/specifications. The decision of JKMSCL as to the quality of stores is final and binding upon the bidder. In case any of the articles supplied are not found as per specification or declared sub-standard, that shall be liable to be rejected and any expenses of loss caused to the supplier as a result of rejection of supplies shall be entirely at his account.
2.6.3	The rejected item must be removed by the firm, within 15 days of the date of intimation of rejection. The officials concerned shall take reasonable care of such material upto 15 days from the date of intimation only but in no case shall be responsible for any loss, damage, shortage that may occur while it is in their premises. In case firm fails to remove the items within fifteen days, JKMSCL shall have full right to get the said item(s) removed & destroyed at the cost & risk of supplier/bidder, without any further correspondence. The destroying charges as per the actual plus 1% penalty shall be deducted from any amount payable to the firm.
2.6.4	No payment shall be made for defective/incorrect items.
2.6.5	In case firm wants to take back item to their service station for rectification then firm has to deposit payment received against such defective supplies. In case supplier has not received any payment then material be returned to supplier firm for rectification. In no case the defective equipment is allowed to be installed after rectification.
2.6.7	The bidder shall be responsible for the proper packing and delivery of the material to the consignee. In the event of any loss, damage, or breakage, leakage or shortage in transit, the bidder shall be responsible. No extra cost on such account shall be admissible.
2.7	**Payment Terms (For items quoted in foreign currency)**

2.7.1	**<u>For Payment through Letter of Credit (for imported items only)</u>** **Payment shall be considered to be made only on receipt of an agreement & performance security, where requisitioned and in the following manners :** In case of irrevocable Letter of Credit (for imported machinery & equipment, its parts, accessories & consumable etc. which are part of supply, installation & commission) i. **<u>On shipment form abroad</u> :** 80% of the net FOR value shall be paid through irrevocable Letter of Credit established in favour of the suppliers by JKMSCL on a bank in the supplier's country, on submission of the documents specified in the Letter of Credit and further following documents : a. Supplier's certificate that the amount(s) shown in the invoice is/are correct in terms of the contract and that all the terms and conditions of the contract have been accepted and complied with. b. Supplier's certificate confirming that the original shipping documents have been dispatched to the consignee in accordance with the contract and c. Any other document specified in the notification of award or the contract. ii. **On final acceptance after receipt of acceptance certificate :** a. Balance 20% of the net F.O.R value (in case of foreign principals), shall be payable by JKMSCL on receipt of goods, on submission of claim supported by the acceptance certificate issued by the user department, mentioning therein the dates of receipt of goods, installation of the equipment and completion of minimum 30 days satisfactory & faultless functioning of the equipment/goods and also subject to other provisions of the agreement. b. The freight and insurance, if any, based on the production of the documentary evidence of the same shall be reimbursed by JKMSCL subject to the estimated amount as mentioned in the supply order/rate contract. iii. Rates quoted must be FOR stores of JKMSCL/site of installation of end user Department. All the statutory duties/taxes are to be paid by the approved supplier. However, same shall be reimbursed at actual on production of requisite documents from the competent authority. JKMSCL shall not be responsible for any demurrage charges on any grounds. ***In other case :***

	i. 100% after accepted delivery & submission of claim to procurement entity with all relevant shipping documents in case of consumables, spare parts whether Imported or Indigenous. ii. 100% in case of goods required commissioning, installation, turnkey work and supply of Import Indigenous goods/equipments, on submission of claims procurement entity with all acceptance certificate issued by the user department in favour of supplier & countersigned by the supplier as per NIT mentioning therein the dates of recent of goods, installation of equipment and after completion of minimum 30 days satisfactory & faultless functioning of the equipment/goods and also subject to other provisions of the Agreement. iii. In cases of imported goods the supplier shall also submit with their claims, the documentary evidences like bill of entry etc. or other documents issued by the custom department, Government of India for clearance of such imported goods supplied to the JKMSCL.
2.7.2	Payment shall be made by RTGS. Expenses on this account, if any, shall be borne by the firm.
2.7.3	Payment to the authorised representative shall be made as per the tripartite agreement with the Corporation i.e JKMSCL on the basis of Annexure AII to e uploaded along with e.bid.
2.7.4	No advance payments towards cost of items shall be made to the bidder.
2.7.5	If at any time during the period of contract, the price of bid items is reduced or brought down by any law or Act of the Central or State Government or by the bidder himself, the bidder shall be bound to inform Managing Director JKMSCL immediately about it. Purchasing authority shall be empowered to unilaterally effect such reduction as is necessary in rates in case the bidder fails to notify or fails to agree for such reduction of rates. In case this reduction of rates comes to the knowledge of JKMSCL in later stage, additional payment made w.e.f of the details of rates shall be charged from the firm with 1.5% monthly interest from the date/till rates have been reduced besides action as desired fit by JKMSCL which may be debarring/any other penalty as per penalty clause.
2.7.6	In case of any enhancement in taxes/duty due to notification of the Government after the date of submission of bids and during the bid period, the quantum of additional taxes/duty so levied shall be allowed to be charged extra as a separate item without any change in the basic price structure of the items approved under the bid. For claiming the additional cost on account of the increase in tax/ duty, the bidder should produce a letter from the concerned authorities for having paid additional tax/duty on the goods supplied to ordering authority and also must claim the same in the invoice separately. Similarly if there is any reduction in the rate of taxes/duty of items, as notified by the Government, after the date of submission of bid, the quantum of the price to the extent of reduction of taxes/duty of items will be deducted without any change in the basic price structure of the items approved under the bidder.
2.7.7	In case of successful bidder has been enjoying exemption on any criteria,

	such bidder will not be allowed to claim taxes/duty at later point of time during the tenure of contract, if the taxes/ duty become chargeable on goods manufactured due to any reason.
2.7.8	If there is any hindrance by the consignee to provide the required site for installation the part payment of equipment shall be made / decided by JKMSCL. In that case, the firm has to inform JKMSCL immediately.
2.8	**LIQUIDATED DAMAGES:**
2.8.1	The time specified for delivery in the bid form shall be deemed to be the essence of the contract and the successful bidder shall arrange supplies within the period on receipt of order from the purchasing officers.
2.8.2	In case of extension in the delivery period with liquidated damages after the expiry of supply schedule (60 days for Indian items & 90 days for imported items) from the date of issuance of Purchase Orders), recovery of liquidated damages shall be made at the rate of 0.25% per day for every day of delay subject to maximum of 10%. Total Penalty period shall be upto 60 days from the last day of supply period. Rest of the terms and conditions of SPP with regard to penalty clause shall remained unchanged.
2.8.3	If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrances, he shall apply in writing to Managing Director JKMSCL, J&K, for the same immediately on occurrence of the hindrances but not after the stipulated date of completion of supply. The firms shall ensure extension of delivery period for delayed supplies. The payment shall only be released by corporation after sanction of extension in delivery period.
2.8.4	Delivery period may be extended with or without liquidated damages. If the delay in the supply of goods is on account of force majeure i.e., which is beyond the control of the bidder, the extension in delivery period may be granted without liquidated damage.
2.8.5	If the bidder is unable to complete the supply within the specified or extended period, the corporation shall be entitled to purchase the goods or any part thereof from elsewhere without notice to the bidder on his (i.e., bidders) account at his cost and risk, with the prior approval of Managing Director JKMSCL, J&K. The bidder shall be liable to pay any loss or damage which the purchasing officer may sustain by reasons of such failure on the part of the bidder. The bidder shall not be entitled to any gain on such purchases made against default. The recovery of such loss or damage shall be made from any sums accruing to the bidder under this or any other contract with the corporation/government. If recovery is not possible from the bill and the bidder fails to pay the loss or damage within one month of the demand, the recovery of such amount or sum due from the bidder shall be made from the bidder. In case supplier fails to deliver ordered goods, the risk purchases may be made at market rate from any other firm. It is mandatory for the approved supplier to acknowledge receipt of orders within seven days from the date of dispatch of order, failing which the procuring entity will be at liberty to initiate action to purchase the items on risk purchase provision at the expiry of the prescribed supply period.

2.8.6	LD for damaged packing or loose packing equivalent to 2 % of the value of the products received with damaged packing or in loose packing or with packing not conforming to the terms and conditions, specified in the tender document.
2.9	**RECOVERIES:-**
2.9.1	Recoveries of liquidated damages, short supplies, breakage, rejected articles shall ordinarily be made from bills. Such amount may also be recovered from any other untied dues & security deposits available with the JKMSCL. In case recovery is not possible, action will be taken as per prevailing Acts/rules in J&K State.
2.9.2	Any recovery on account of liquidated damage charges/risk & cost charges in respect of previous rate contracts/supply orders placed on them by the JKMSCL can also be recovered from any sum accrued against this bid after accounting for untied sum or due payment lying with JKMSCL against previous rate contracts/supply orders. Firm shall submit details of pending amount lying with JKMSCL but decision of Managing Director JKMSCL, J&K regarding authenticity of sum payable shall be final.
2.9.3	**Testing & Handling Charges : the testing and handling charges to the tune of 1.5% of total cost shall be deducted from the invoices raised by the approved bidder against the supply orders placed from time to time.**

3. Technical Specifications:

Annexure: A-III (technical specifications attached for Table I)

General features:

i. **Bidders are requested to send printed descriptive literature/catalogue of the quoted items duly sealed by MD/Chairman/authorised signatory of the firm/bidder in the office of Jammu and Kashmir Medical Supplies Corporation Ltd. one day prior to last day of uploading of the bid. The catalogues along with compliance sheets should also be uploaded with the technical bid.**

ii. If bidder supplied to or have rate contract of quoted items with any other Govt. institutions within one year, he may be asked to provide copies of purchase orders, invoices and rate contract.

4) .Drawings if any to be attached with the technical bid.

5. Inspection and Tests

Clause No.	Description
5.1	**INSPECTION OF EQUIPMENTS AND INSTRUMENTS:-**
5.2	The equipments supplies shall be according to technical specifications and shall be inspected by the committee constituted by JKMSCL as mentioned in the supply order or amended thereafter by competent authority. In case of BIS Items, inspection shall be strictly as per relevant BIS specifications with latest amendments and have been made applicable by B.I.S. at the time of inspection. The inspection and testing of the material may be got done by any inspecting Agency/team of experts at site of installation/commissioning. The supplier shall provide all facilities for inspection/testing free of cost.
5.3	Notwithstanding the fact that the authorized inspecting team had inspected and/or has approved the stores/articles, any officer(s)/team of officer nominated by the corporation may inspect the item/material as soon as it is received in the stores to ensure that the supply is in accordance with the specifications laid down in rate contract/supply order.
5.4	In case of doubts in inspection/ test, same may be got inspected or tested in any laboratory. If the material is not found as per specifications or defective, consignee shall not accept the material and shall inform the corporation within 3 days. Consignee may also simultaneously ask the firm for removal of defect/replacement. The firm shall be bound to replace the defective equipment/item within 15 days of receipt of intimation from the consignee/corporation. However, the date of delivery, in case of defective item shall be taken as the date on which the JKMSCL accepts the item after replacement of defective material/removal of defects as the case may be. Wherever defective item is replaced, the inspection/testing charges, if any, shall be borne by the supplier.
5.5	The corporation/technical expert or team shall match the specification with available reserved sample with the corporation which is submitted by the firm/supplier at the time of technical approval before release to end user. .
5.6	In case of imported item, the supplier shall ensure that the item shall be inspected by the third party inspection agency before dispatched to the consignee. In case any un- inspected item has been found in the item received by consignee, the firm shall be solely responsible for it and the JKMSCL shall be free to take suitable necessary action as per terms and conditions of bid documents/agreement against the firm.

Section VI A: - General Conditions of Contract (GCC)

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SECTION VI A: - GENERAL CONDITIONS OF CONTRACT (GCC)

Bidder should read these terms & conditions carefully and comply strictly while submitting their bids. If a bidder has any doubt regarding the terms & conditions and specifications mentioned in the bid notice/ catalogue, he should refer these to the Jammu and Kashmir Medical Supplies Corporation, J&K, before submitting bids and obtains clarifications. The decision of the Managing Director Jammu and Kashmir Medical Supplies Corporation, J&K, shall be final and binding on the bidder. The clauses of terms & conditions are as follows:-

Clause No.	Description
1.	**Definitions**
	The following words and expressions shall have the meanings hereby assigned to them: **'Act/Rules'** means Acts & rules prevailing in J&K Union Territory in terms of procurement. **'Completion'** Means the fulfilment of the supplies and Related Services by the supplier in accordance with the terms and conditions set forth in the contract. **"Contract"** Means the Agreement entered into between the procuring entity and supplier, together with the contract documents referred to therein, including all attachments, appendices, specifications and codes and all documents incorporated by reference therein. **"Contract Documents"** Means the documents listed in the agreement, including any amendments thereto. **"Contract Price/Rate"** Means the price payable to the supplier as specified in the agreement, subject to such additions and adjustments thereto or deductions there from, as may be made pursuant to the contract. **"Day"** Means calendar day. **"Delivery"** Means the transfer of the goods from the supplier to the procuring entity in accordance with the terms and conditions set forth in the contract. **"GCC"** Means the general conditions of rate contract. **"SCC'** Means the special conditions of rate contract". **"Goods"** Means all of the commodities, raw material, machinery and equipment, documents, warrantees and /or other materials that the supplier is required to supply to the Procuring Entity under the Contract. **"Procuring Entity"** Means the entity purchasing the goods and related services, Managing Director Jammu and Kashmir Medical Supplies Corporation, J&K, or as specified in the special conditions of the contract (SCC). **"Related Services"** Means the services incidental to the supply of the goods, such insurance, installation, training and initial maintenance, commissioning of equipment or machinery and other similar obligations of the supplier under the contract. **"Subcontractor"** Means any natural person, private or government entity, or a combination of the above, including its legal successors or permitted assigns, to whom any part of the goods to be supplied is subcontracted by the supplier. **"Supplier"** Means the natural person, private or government entity, or a

	combination of the above, whose bid to perform the contract has been accepted by the procuring entity and is named as such in the agreement, and includes the legal successors or permitted assigns of the supplier. **Authorised representative :** Means the natural person, proprietor or Govt entity, duly authorised by the Managing Director/Prop/Chairman/Board of Director of original manufacturer/direct importer under their seal signatures duly notarized ; to bid, negotiate, raise the invoice, receive the payment against the supplies made, enter into tripartite agreement within the Corporation i.e JKMSCL, inter-alia. **Authorised signatory :** Means the natural person authorised by the proprietor, Managing Director/Chairman/Board of Director of original manufacturer/direct importer under their seal signatures duly notarized to sign on behalf of the company. **"The Site"** where applicable, means the place of delivery, installation, testing/ commissioning of the goods /equipment or machinery or as mentioned in the supply order. **"Consignee"** Means the receiver of the stores as mentioned in supply order.
2.	**General terms**
2.1	Bids are invited from original manufacturers /direct importers/authorized representative of the original manufacturer/direct importer.
2.2	Bid shall have to uploaded as per schedule, to JK e-portal : www.jktenders.gov.in. At any time prior to the date of uploading of bid, bid inviting authority may, for any reason, whether on his own initiative or in response to a clarification requested by a prospective bidder, modify the condition in bid document by an amendment. In order to provide reasonable time to take the amendment into account in preparing their bid, bid inviting authority may at his discretion, extend the date and time for submission of bid. Interested eligible bidders may obtain further information in this regard from the office of the bid inviting authority.
2.3	Supplies shall be made directly by the bidder to be called as "Supplier" after finalization of rate contract, and suppliers. Manufacturer bidder should have permission to manufacture the item quoted as per specification given in the bid from the competent authority.
2.4.1	Direct importer should authenticate import/sale license for the product quoted in the bid issued by the competent authority.
2.4.2	In case, the item/product is supplied through authorised representative, product manufacturing permission, import/sale license of the principal manufacturer (s) direct importer (s) shall have to be uploaded along with technical bid.
2.5	Bid shall be have to be loaded on e-portal i.e www.jktenders.gov.in submitted to Managing Director, Jammu and Kashmir Medical Supplies Corporation, J&K

2.6	The bidder shall also submit the following documents and certificates along with the bid as per technical bid submission letter :- **(i)** A combined undertaking/declaration regarding that the quoted item : a. Model is of latest technology, the item has not become outdated, that the rate quoted is not more than the rate charged from anyone else, b. That the bidder is not black listed or banned or debarred by central or any state government or its append gages, c. Availability of spare parts and consumables for the quoted equipment for at least 10 years/life of the item, from the date of installation. Note : Bid should not be submitted for the quoted item(s) for which the bidder has been blacklisted/banned/debarred either by bid inviting authority or Govt. of J&K or by any other State/Central Govt. and its agencies. This also applies to the bidder for its sister/ allied firm(s)/ unit(s). **(ii) The bidder, in case of representative of the manufacturer/direct importer shall submit fresh authorization of the manufacturer/direct importer duly authenticated and notarized.** **PLEASE ALSO NOTE THAT: -** (A) All attested documents must be submitted in English language. If the documents are not in English, translated version of the same, in English, duly signed and attested by authorized translator must be submitted along with copy of original document. (B) All the above mentioned documents should be under the name and address of the premises where the quoted items are actually manufactured/ stored for supply.
2.7	Financial Bid duly filled in (Annexure III/BOQ) giving the rates for quoted items should be uploaded through e portal www.jktenders.gov.in. The rate should not be disclosed/uploaded in the technical bid. **Rates uploaded along with technical bid shall means out rightly rejection of bid of the concerned person.**
2.8	The required amounts towards cost of bid document and tender processing charges shall be deposited as mentioned at page 5, 01 day before the last date and time of bid submission. All bids received will be opened in the presence of bidders, who choose to be present. Financial bid will be opened only for those bidders, who satisfy the criteria laid down by the JKMSCL on the details furnished by the bidder in technical bid in compliance of terms & conditions of the bid.
2.9	(i) In case of the bid being submitted by a proprietary firm, the bid must be signed by the sole proprietor. In case of a partnership firm, bid must be signed on behalf of the firm by a person authorized, holding a power

	of attorney in his favour to do so; and in the case of a company, the bid must be signed by an authorized signatory, in the manner laid down in the articles of association of the bidder company. (ii) Any change in the constitution of the firm/ company shall be notified forthwith by the bidder/contractor in writing to the Jammu and Kashmir Medical Supplies Corporation, J&K and such change shall not relieve any former member of the firm/ company from the liability under the conditions of the bid/contract. No new partner / partners shall be accepted in the firm by the bidder/contractor in respect of the bid/contract unless he/ they agree to abide by all its terms and conditions and submit a written agreement to this effect. The bidder's/contractor's receipt for acknowledgement or date of any new partner subsequently inducted, as above, shall bind all of them and will be a sufficient discharge for any of the purposes of the contract.
3	**BID SECURITY:**
	(i) Bid shall have to be accompanied with a scanned copy of FDR/CDR/BG/NEFT/RTGS as bid security. The bid security shall have to be submitted before the opening of technical bid with a validity of 30 months. Bids submitted without sufficient bid security & validity shall be summarily rejected. (ii) The bid security of bidder shall be refunded after the earliest of the following events, namely:- (a) the expiry of validity of bid security; (b) the cancellation of the procurement process; or (c) the withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted. (iii) The bid security lying with the JKMSCL in respect of other bids awaiting approval or rejection or on account of contracts being completed, shall not be adjusted towards bid security for the fresh bids. The bid security may, however, be taken into consideration in case bids are re-invited for the same item. (vi) In case any document submitted by the bidder or by his authorized representative is found to be forged, false or fabricated, the bid shall be rejected and bid security may be forfeited. Bidder/his representative may also be banned / debarred. Report with police station may also be filed against such bidder/his representative.
4	**FORFEITURE OF BID SECURITY: -**
	The bid security shall be forfeited if: (i) The bidder withdraws or modifies the offer after opening of financial bid, but before acceptance of bid, (ii) The bidder does not execute the agreement, if any, prescribed within the specified time or extended time by competent authority (on the request of the bidder), (iii) The bidder does not deposit the 'performance security' after the supply order is placed/requested for signing the agreement, (iv) The bidder fails to commence the supply of the items as per supply

	order within the time prescribed, (v) The bidder fails to submit samples/demonstration of quoted item on demand (vi) The bidder violates any of the terms & conditions of the bid document.
5	**WARRANTY CLAUSE:-**
	(i) The bidder would guarantee that the subject matter of procurement would continue to conform to the description and quality as per technical specifications and performs as per descriptions, from the date of delivery/ installation of the said subject matter of procurement. Notwithstanding the fact that the purchaser may have inspected and/or approved the said subject matter of procurement during the warranty period, if the said subject matter of procurement is discovered not to conform to the description and quality as aforesaid or not performing, as described, the procuring entity will be entitled to reject the said subject matter of procurement or such portion thereof as may be discovered not to conform to the said description and quality or not performing as described. On such rejection, the subject matter of procurement will be at the seller's risk and all the provisions relating to rejection of goods, etc., shall apply. The successful bidder shall, if called upon to do so, replace the goods etc. or such portion thereof, as rejected by the procuring entity. Otherwise, the bidder shall pay such damages, as may arise by reason of such breach of the condition herein contained. Nothing herein contained shall prejudice any other right of the procuring entity in that behalf under this contract or otherwise. (ii) The bidder shall, during the warranty period appearing in the contract, replace the whole subject matter of procurement or part(s), if any, and remove the manufacturing defects, if found during the above period so as to make the machinery and equipment/ordered items operative. (iii) In case of the machinery or equipment/ordered items, the successful bidder shall be responsible for carrying out annual maintenance and repairs on the terms & conditions, as agreed. The bidder shall have to ensure that consumables required for the maintenance of machine/equipment are being supplied free of cost during warranty period. The adequate regular supply of spare parts and consumables per incident for the machinery or equipment, whether under their annual maintenance and repairs contract or otherwise shall be ensured. In case of change of model the bidder shall notify the procuring entity sufficiently in advance, to facilitate procurement of sufficient quantity of consumables/ spare parts from the bidder to maintain the machinery or equipment. In case, any item supplied by the successful bidder does not conform to the required specifications, the payment thereof, if received by the supplier, shall have to be refunded to the Jammu and Kashmir Medical Supplies Corporation, J&K along with interest to the tune of 1.5% per month from

	the date of release of payment. The supplier will not have any rightful claim to the payment of cost for substandard supplies, which may have been consumed, either in part or whole, pending receipt of laboratory test / inspection report, wherever required. Supply of goods less in weight and volume than those mentioned on the label of the container, the same will be dealt with in the manner prescribed under rules.
6	**MARKING**
	All items and accessories supplied should bear marking "JKMSCL SUPPLY (**DD/MM/YYYY**) engraved or non removable material) "NOT FOR SALE" or as mentioned in supply order in English, without which the supply will not be entertained. JKMSCL may ask change in art work to be printed on the item at any stage of the contract.  JKMSCL SUPPLY (**DD/MM/YYYY**) NOT FOR SALE
7	**COMPARISON OF RATES:**
	(i) Only net rates should be quoted. No separate free goods or cash discounts should be offered. Rates must be valid for the entire period of contract. (ii) Consignee may be located at a district headquarter (except equipment/ machinery requiring installation and commissioning, the place may be any other station) or as directed by Jammu and Kashmir Medical Supplies Corporation Limited, J&K and the rates must be quoted accordingly. No cartage or transportation charges shall be payable. (iv) The net rate must be inclusive of all charges by way of packing, forwarding, incidental or transit charges, including transit insurance, and any other levies or duties etc. on the subject matter of procurement. (v) In the event of any subsequent variation (increase or decrease) in the rate of GST or any other taxes by the government (state /UT or central), the same will be admissible accordingly. (vi) If the rates of item quoted are found same from two for more bidders, then the bidders shall be asked to submit revised financial bid, containing reduced rates within given time by Managing Director, Jammu and Kashmir Medical Supplies Corporation Limited, J&K. (vii) The bidder will exercise all due diligence at their own level regarding applicability of other taxes, duties and fees etc. for the unit of supplies as specified in the bid document and accordingly include the same in their quotes. Any additional/extra claims over and above the rates agreed pertaining to taxes, duties and fees etc. will not be entertained later on any account.

	(viii) No part of the bid document should be detached / deleted.
8	**SUBMISSION OF SAMPLES/CATALOGUES AND DEMONSTRATION**
	(i) Catalogues/samples of the quoted item(s) must be sent free of cost to JKMSCL even though the specifications or description etc. are mentioned in the bid form are complied. (ii) Samples of items(s) should be collected back from the JKMSCL, J&K within 15 days from the date of finalization of list of successful bidder/demonstration of product before the expert panel. The corporation shall not be responsible for any damage, wear and tear or loss during the course of testing / examination, etc. The corporation may retain the sample of approved item for one month beyond expiry of contract. The corporation shall not be responsible for any damage, wear and tear or loss in this period. The corporation shall not make any arrangement for return of samples even if the bidder agrees to pay the cost of transportation. (iii) The bidder may be asked to demonstrate the technique, procedure and utility of item as per specifications given in the bid document before the technical committee constituted by the Corporation for the purpose. In case of heavy equipment, the demonstration may be carried out at the nearby place where the equipment has been installed by the bidder. In that case, the decision of the technical committee shall be final. The firm shall keep ready the quoted item and arrange all logistics within the time frame as and when asked by the JKMSCL. After the due date, no request of the bidder/firm shall be entertained for demonstration. (iv) Sample should be strictly according to the item quoted in the bid form failing which the bid will not be considered. Sample must be submitted duly sealed and marked suitably either by writing on the sample or on a slip or durable paper securely fastened to the sample with the particulars as mentioned below: a. Name and full address of the firm b. Catalogue no. and name of the item c. Name of section d. Name of manufacturer e. Brand (v) No change in marking on sample will be allowed after the submission of the sample.
9	**PERFORMANCE SECURITY (P.S.) AND AGREEMENT:**
	(i) The successful bidder shall submit the original copy of Bid document signed on each page **at the time of agreement**. However, while uploading the technical bid, only the declaration regarding acceptance of terms & conditions shall be uploaded. (ii) The period of rate contract shall be 24 months from the date of issuance of rate contract. The Managing Director, JKMSCL can extend the original rate contract subject to original terms and conditions for

a period deemed fit by them, but not exceeding three months, for which the bidder shall abide.

(iii) Successful bidders, whose offers are accepted, shall have to deposit performance security @ 5% of the value of the supply order in favour of Chief Accounts Officer, JKMSCL within 15 days from the date of issuance of letter of intent. The performance security shall be deposited in the form of FDR/CDR/B.G (Bank Guarantee)/NEFT/RTGS. However, the bank guarantee shall be for a validity period i.**e (sixty six) 66 months from the date of installation of the equipment.**

(iv) In case of successful bidder(s), the amount of bid security shall be adjusted for performance security for the supply order placed to the firms/bidders. The amount of performance security, if exceeds the bid security, it shall be deposited by the firm against the supply orders issued from time to time.

(v) The firm may submit bank guarantee issued by any scheduled/nationalised bank. The minimum validity of bank guarantee should be six months after completion of warranty period for the item.

(vi) The Performance Security: The Performance Security (P.S.) shall be 5 % of the total value of stores ordered for supply. The payment shall not be released against supplies untill the additional Performance Security due is deposited by the supplier or additional.

(vii) The performance security shall be refunded after six months after satisfactory completion of contract and after satisfying that there are no dues outstanding against the bidder subject to warranty provisions.

(viii) It is to be noted that earlier year's bid security and performance security, even if lying in the JKMSCL shall not be considered towards this contract and therefore fresh bid security/performance security shall be deposited. The JKMSCL shall pay no interest on bid security or performance security amount.

(ix) Successful bidders shall have to execute an agreement on a Non-Judicial stamp paper of an amount mentioned in the offer letter, in the prescribed form with the JKMSCL and deposit performance security within **30 days** from the date of acceptance of the bid is communicated to him. However, Managing Director JKMSCL, J&K may condone the delay in execution of contract by the bidder. The expenses in this regard shall be borne by the successful bidder. The validity of contract under this agreement shall be for a period as mentioned.

(x) The bidder shall furnish the following documents at the time of execution of agreement:-

(i) Attested copy of partnership deed in case of partnership firms.

(ii) Registration number and year of registration, in case partnership firm is registered with registrar of firms;

	(xi) Address of residence and office, telephone numbers, in case of sole proprietorship with : (i) Registration issued by registrar of companies under Registrar of companies Act 1956, in case of company. (xiv) In case of breach of any terms and conditions of the contract or on unsatisfactory performance, the amount of performance security shall be liable to forfeiture by JKMSCL, J&K and decision of Managing Director JKMSCL J&K shall be final. (xv) The rate contract can be repudiate/rejected at any time by the Managing Director JKMSCL, J&K if the supplies are not made to his satisfaction after giving an opportunity to the bidder of being heard and after reasons for repudiation being recorded by him in writing. However, Managing Director JKMSCL, J&K may terminate the agreement of contract at any time without notice/intimation to the successful bidder.
11	**SUPPLY ORDERS:**
	(i) Supply order shall be placed through registered post/e-mail/any communication medium by the JKMSCL. The date of receipt of letter of communication date will be treated as the date of order for calculating the period of execution of order. The successful bidder will execute the orders within a period of 60 days or as specified in the supply order. (ii) The successful bidder acknowledge receipt of orders within 7 days from the date of dispatch of order, failing which the procuring entity may be at liberty to initiate action to purchase the items on risk & cost purchase provision. (iii) In case of imported items, 30 days shall be given in addition to above mentioned period, (iv) Except, for equipments / machinery, which requires installation / commissioning, all other supplies shall have to be to FOR district drug warehouse only. In case of non-viable size of order for supplies, the corporation shall take appropriate decision on representation from the supplier on case to case basis. The consignee for supplies shall be JKMSCL. (v) To ensure sustained supply without any interruption, the Managing Director, JKMSCL reserves the right to have more than one approved supplier from amongst the qualified bidders as matched L1 supplied at matched L1 rates. In such a case, the requirement may be met by dividing be quantity among the rate contract holders considering the quantity required and dedicated capacity of the successful bidders. (vi) The ready stock position of the item, if provided by the firm, may be considered by the corporation for the placement of supply orders. (vi) It may be noted that the JKMSCL does not undertake to assist in the procurement of raw material, whether imported or controlled or restricted, and as such the bidders must offer their rates to supply the specific items from own quota of raw material stock by visualizing the prospect of availability and requirement. Any of the above points if

	taken, as argument for non-supply/delayed supply will not be entertained.
12	**SUBMISSION OF CONTRACT COMPLETION REPORT**
12.1	Firms shall have to submit consolidated statement in duplicate at the end of rate contract well as after expiry of equipment / instrument warranty period (as provided in warranty clause of the contract) to enable JKMSCL to examine the case for refund of performance security.
12.2	The end user shall intimate the complaint/defect arise immediately to the manufacturer/importer/representative with copy to JKMSCL for further follow up..
13	**LIQUIDATED DAMAGES:**
	I. The time specified for delivery in the tender form shall be deemed to be the essence of the contract and the successful Bidder shall arrange supplies within the period on receipt of order from the Purchasing Officers. II. In case of extension in the delivery period with liquidated damages, recovery of liquidated damages shall be made at the rate of 0.25% per day for every day of delay subject to maximum of 10%. Delay beyond 120 (for Indian products) and **180 days (for imported products) shall be made with the consent of the TIA subject to imposition of penalty @20%.** III. Penalty shall not be imposed if claim with regard to any supply i.e. Drugs/Equipment is complete in all respects i.e. QC verification/Board verified etc. is not cleared by the JKMSCL within a period of 60 days. IV. Fraction of a day in reckoning the period of delay in supplies shall be eliminated if it is less than half a day. V. The maximum amount of agreed liquidated damage shall be 20%. VI. If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to M.D, JKMSCL, Jammu / Srinagar (J&K), which has placed the supply order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply. The firms shall ensure extension of delivery period for delayed supplies. The payment shall only released by purchase officer after sanction of extension in delivery period by M.D., JKMSCL. VII. Delivery period may be extended with or without liquidated damages. If the delay in the supply of goods is on account of hindrances beyond the control of the Bidder, the extension in delivery period may be granted without Liquidated Damage. VIII. If the Bidder is unable to complete the supply within the specified or extended period, the purchasing officer (JKMSCL) shall be entitled to purchase the goods or any part thereof from elsewhere without notice to the Bidder on his (i.e. Bidders) account and risk only with the prior approval from M.D., JKMSCL, Jammu / Srinagar (J&K). The Bidder shall be liable to pay

	any loss or damage which the purchasing officer may sustain by reasons of such failure on the part of the Bidder. The Bidder shall not be entitled to any gain on such purchases made against default. The recovery of such loss or damage shall be made from any sums accruing to the Bidder under this or any other contract with the government. If recovery is not possible from the bill and the Bidder fails to pay the loss or damage, within one month of the demand, the recovery of such amount or sum due from the Bidder shall be made under the law for the time being in force. In case more than one supplier has been approved for any item under the approved list circulated to the purchasing officers, the risk purchases may be made at a higher rate from any other firm whose rate is duly approved. It is mandatory for the approved supplier to acknowledge receipt of orders with in fifteen days from the date of dispatch of order, failing which the purchasing officer will be at liberty to initiate action to purchase the items on risk purchase system at the expiry of the prescribed supply period, after taking required approval from M.D., JKMSCL (J&K). IX. If the bidder is unable to complete the supply within the specified or extended period, the purchasing officer shall be entitled to purchase the goods or any part thereof from elsewhere without notice to the bidder on his (i.e., bidders) account at his cost and risk, with the prior approval from JKMSCL. The bidder shall be liable to pay any loss or damage which the purchasing officer may sustain by reasons of such failure on the part of the bidder. The bidder shall not be entitled to any gain on such purchases made against default. The recovery of such loss or damage shall be made from any sums accruing to the bidder under this or any other contract with the corporation/government. If recovery is not possible from the bill and the bidder fails to pay the loss or damage within one month of the demand, the recovery of such amount or sum due from the bidder shall be made or any other law for the time being in force. In case supplier fails to deliver ordered goods, the risk purchases may be made at market rate from any other firm. It is mandatory for the approved supplier to acknowledge receipt of orders within seven days from the date of dispatch of order, failing which the procuring entity will be at liberty to initiate action to purchase the items on risk purchase provision at the expiry of the prescribed supply period. X. In case of wrong quoting, (or) if successful bidder refuses (or) fails to execute the supplies on the basis of wrong quoting of rates, the bidder shall be penalized with forfeiting of amount equivalent to the Performance security for the said product (or) debarring/ blacklisting of firm for that particular product(s) for a period not less than 02 years (or) both as deemed fit by TIA i.e. MD, JKMSCL.
14	(i) JKMSCL shall procure the machinery & equipment for the Health & Medical Education Institutes of UT of J&K inter-alia. (ii) The funds shall be transferred to JKMSCL with indent form and supply orders shall be placed by JKMSCL to suppliers.
15	**RECOVERIES**
	(i) Recoveries of liquidated damages, short supplies, breakage, rejected articles shall ordinary be made from bills. Such amount may also be recovered from any other untied dues & security deposits

	available with Corporation. In case recovery is not possible, recourse will be taken under law in force. (ii) **Any recovery on account of L.D. charges/risk & cost charges in respect of previous rate contracts/ supply orders placed on them by the corporation can also be recovered from any sum accrued against this tender after accounting for untied sum or due payment sum lying with corporation against previous rate contracts/supply orders. Firm shall submit details of pending amount lying with corporation but decision of M.D., JKMSCL, J&K regarding authenticity of sum payable shall be final.**
16	**INSPECTION:-**
	(i) The equipments supplied shall be according to specifications provided at Section IV (3) schedule of supply and may be inspected by the technical panel/team constituted for the purpose by JKMSCL deemed fit on the site of manufacturer (in case of Indian manufacturer)/ importer (importer site). The manufacturer/importer shall facilitate the demonstration of the said machine/equipment/on the site only. After the receipt of "Certificate of satisfaction" from the technical panel, the supply order shall placed. In case of BIS Items, inspection shall be strictly as per relevant BIS specifications with latest amendments and have been made applicable by B.I.S. at the time of inspection. The machine/equipment shall be further inspected at the time of installation/commissioning at site i.e the end user site. The supplier shall provide all facilities for inspection/testing free of cost. (ii) Notwithstanding the fact that the authorized inspecting agency had inspected and/or has approved the stores/articles, the procurement officer or his representative may inspect the item/material as soon as it is received in the stores to ensure that the supply is in accordance with the specifications laid down in rate contract. (iii) In case of doubts in inspection/ test, same may be got inspected or tested in any laboratory. If the material is not found as per specifications or defective, consignee will not accept the material and shall inform the JKMSCL, J&K within 3 days. Consignee may also simultaneously ask the firm for removal of defect/replacement. The firm shall be bound to remove the defect or replace the defective equipment/item within 15 days of receipt of intimation from the consignee. However, the date of delivery, in case of defective item shall be taken as the date on which the JKMSCL accepts the item after replacement of defective material/removal of defects as the case may be. Wherever defective item is replaced, the inspection / testing charges, if any, shall be borne by the supplier. (iv) If required, the consignee may refer inspection committee to match the specification with available reserved sample with the corporation which is submitted by the firm/supplier at the time of technical approval. (v) In case of imported item, the supplier shall ensure that the item shall

	be inspected by the third party inspection agency before dispatched to the consignee. In case any un-inspected item has been found in the item received by consignee, the firm shall be solely responsible for it and the JKMSCL shall be free to take suitable necessary action as per terms and conditions of bid documents/agreement against the firm.
17	**PACKING AND INSURANCE**
	(i) The goods will be delivered at the destination in perfect condition. The firm if so desires may insure valuable goods against loss by theft, destruction or damages by fire, flood, under exposure to weather of otherwise in any situation. The insurance charges will have to be borne by the supplier and the corporation shall not be required to pay any such charges, if incurred. (ii) The firm shall be responsible for the proper packing so as to avoid damages under normal conditions of transport by sea, rail, road or air and delivery of material in good condition to the procurement officer's store. In the event of any loss, damage, breakage or leakage or any shortage the firm shall be liable to make good such loss and shortage found at destination after the checking/inspection of material by the consignee. No extra cost on such account shall be admissible. The firm may keep its representative to verify any damage or loss discovered at the consignee's store, if it so likes. (iii) Packing, cases, containers and other allied material if any shall be supplied free, except where otherwise specified by the firm(s) and agreed by the JKMSCL and the same shall not be returned to him.
18	**REJECTION**
	(i) Articles not as per specifications/or not approved shall be rejected by the JKMSCL and will have to be replaced by the supplier firm at his own cost within 15 days or as time limit fixed by the JKMSCL. (ii) All the stores supplied shall be of the best quality and conforming to the specification, trademark laid down in the schedule attached to agreement and in strict accordance with and equal to the approved, standard, samples. In case of any material of which there are no standards or approved samples, the supply shall be of the best quality to be substantiated by documents. The decision of Managing Director JKMSCL as to the quality of stores be final and binding upon the bidder. In case any of the articles supplied are not found as per specification or declared sub-standard/spurious, that shall be liable to be rejected and any expenses of loss caused to the supplier as a result of rejection of supplies shall be entirely at his account. (iii) The rejected item must be removed by the firm, within 15 days of the date of intimation of rejection. The officials concerned will take reasonable care of such material but in no case shall be responsible for any loss, damage, shortage that may occur while it is in their premises. (iv) No payment shall be made for defective/incorrect items. However, if payment has been made, then defective items shall be allowed to be removed only after the firm replaces material as per specifications, duly inspected. If the payment has not been made, the firm may be allowed to remove the material without prior replacement (provided firm has performance security as per condition No. 18). Joint inspection of defective material may be carried out as required by the JKMSCL. However sample of ISI marked material found defective shall be kept by consignee for reference to BIS.

	(v) In case firm wants to take back item to their works for rectification then firm has to deposit payment received against such defective supplies. In case supplier has not received any payment then material be returned to supplier firm for rectification. The Bidder shall be responsible for the proper packing and delivery of the material to the consignee. In the event of any loss, damage, or breakage, leakage or shortage in transit, the Bidder shall be responsible. No extra cost on such account shall be admissible.
19.	**CORRECTION OF ARITHMETIC ERRORS**
	Provided that a financial bid is substantially responsive, the procuring entity will correct arithmetical errors during evaluation of financial bids on the following basis: (i) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the procuring entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected; (ii) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected. (iii) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to clause (a) and (b) above. If the bidder that submitted the lowest evaluated bid does not accept the correction of errors, its bid shall be disqualified and its bid security shall be forfeited or its bid securing declaration shall be executed.
20	**PROCURING ENTITY'S RIGHT TO VARY QUANTITY:**
	(i) The quantity of equipments and instruments originally indicated in the bidding document may vary without any change in the unit prices and other terms and conditions of the bid and the conditions of contract. (ii) If the Managing Director JKMSCL J&K procures less than the quantity indicated in the bidding documents the bidder shall not be entitled for any claim or compensation except otherwise provided in the conditions of contract. (i) If the Bidder fails to supply the Managing Director JKMSCL J&K shall be free to arrange/procure the items and the extra cost incurred shall be recovered from the Supplier.
21.	**PARALLEL RATE CONTRACT**
	The JKMSCL may also execute parallel rate contract to with more than one firm for each item on the lowest approved rates on the same terms and conditions, if the original lowest one each not in a position to supply material as per JKMSCL requirement.

	(i) To ensure sustained supply without any interruption, the bid inviting authority reserves the right to approve more than one supplier to supply the requirement among the qualified bidders. (ii) Orders will be placed with Lowest I (L-1) firm. However in case of any exigency at the discretion of the bid inviting authority, the orders may also be placed with the other firms, in the ascending order, L-2, L-3 and so on who have matched with the L-1 rates and executed agreement with corporation on same rates (L1), terms and conditions. (iii) After the conclusion of financial bid opening (Cover B) the lowest offer of the bidder is considered for negotiation and rate arrived after negotiations is declared as L-1 rate and L-1 supplier for an item for which the bid has been invited. (iv) The bid who has been declared as L-1 supplier for certain item shall execute necessary agreement for the supply of the required quantity of such item on depositing the required amount performance security and on execution of the agreement such bidder is eligible for the placement of supply orders. (v) JKMSCL will inform the L-1 rate to the bidders who had qualified for financial bid (Cover B) opening, inviting their consent to match with the L-1 rates for the item/items quoted by them and the bidders who agree to match L-1 rate, will be considered as matched L-1 (vi) The bidder who agrees to match L-1 rate shall furnish the breakup detail (Rate, GST, CUSTOM DUTY etc.) of rates (L-1 rates). (vii) The supplier, on receipt of the supply orders deems that the purchase orders exceeds the production capacity declared in the bid documents and the delay would occur in executing the order, shall inform the JKMSCL immediately without loss of time and in executing the order, shall be returned within 7 days from the date of issuing order, failing which the supplier would be deprived from disputing the imposition of liquidated damages, and penalty for the delayed supplies. (viii) If the L-1 supplier has failed to supply / intimated JKMSCL about his inability / delay in supply as per the supply order, the required items within the stipulated time or as the case may be, JKMSCL may also place purchase orders with the matched L-1 Bidders for purchase of the items provided such matched L-1. Bidders shall execute necessary agreement indicating the production capacity as specified in the bid document on depositing the required amount. Such bidder is eligible for the placement of purchase orders for the item quoted by them. (ix) Subject to para (vii) above, while JKMSCL has chosen to place purchase orders with matched L-1 supplier and there are more than one such matched L-1 supplier, then the purchase orders for the requirement of items will be place with L-2 first on matched rates of L-1 and in case L-2 does not have the required capacity than L-3 would be considered on matched L-1 rates and the same order would be flowed

	in case of L-3, L-4, etc. (x) The matched L-1 supplier, on placement of purchase orders, will be deemed as L-1 rate supplier for the purpose of the bid and all provisions of the bid document applicable to L-1 rate bidder will apply to the matched L-1 supplier. (xi) If the supplier fails to supply the item for the purchase orders, at any point of time, either fully or partly, within the stipulated time, JKMSCL is at liberty to place purchase orders with other bidders (in ascending order, viz, L-2, L-3 and so on) at the price offered by then and in such cases the supplier is liable to indemnify JKMSCL, without any protest or demur, for the difference in cost incurred by JKMSCL and the JKMSCL is entitled to recover the difference in cost from the amount due / payable to the supplier. (xii) Parallel rate contract may be concluded as described above during any time / currency of rate contract subject to matching of L-1 rates, price fall clause and on same terms and conditions.
22	**VALIDITY OF BID:**
	Bids shall be valid for a minimum period of 120 days from the date of opening of technical bid. Prior to the expiry of the period of validity of bid, the procuring entity, may request the bidders to extend the bill validity period for an additional specified period of time. A bidder may refuse the request and such refusal shall be treated as withdrawal of the bid but in such circumstances bid security shall not be forfeited.
23	**PRICE ESCALATION:**
	Price escalation or price variation shall not be applicable or considered under any circumstances for the purchases made under this bid or agreement. However, the provisions provided for tax variations are exclusive to this clause.
24	**SUBLETTING OF CONTRACT:**
	Subletting or assigning contract to third party is prohibited. In the event of bidder violating this condition, the Jammu and Kashmir Medical Supplies Corporation Limited shall be at liberty to place the contract elsewhere on the Bidder's account and at his risk. The bidder shall be liable for any loss or damage, which the Government may sustain in consequence or arising out of such replacement of the contract.
25	**FALL CLAUSE:-**
	(i) The prices under contract shall be subject to price fall clause. The prices charged for the store supplies under the contract by successful bidder shall in no event exceed the lowest price at which the successful bidder sells the stores of identical description to any other persons during the period of the contract anywhere in India. If any time, during the period of the contract, the bidder reduces the sales price chargeable under the contract, he shall forth with notify such reduction to the JKMSCL, J&K and the price payable under the contract for the stores supplied after the date of coming

	into force of such reduction or sale shall stand reduced correspondingly. It imply that if the contract holder quotes/ reduces its price to render similar goods at a price lower than the contract price to anyone in the State /UT of India at any time during the currency of contract including extension period, the contract price shall be automatically reduced with effect from the date of reducing or quoting lower price for all delivery of subject matter of procurement under contract and the contract shall be amended accordingly. (ii) The firms holding parallel rate contract shall also reduce their price. Firms shall notify their reduced price and intimate their acceptance to the revised price within 15 days to JKMSCL. Similarly, if parallel rate contract holding firm reduced its price during currency of the rate contract, its reduced price shall be conveyed to other parallel rate contract holding firms and the original rate contract holding firms for corresponding reduction in their prices. If any rate contract holding firm does not agree to reduce price, further transaction with it, shall not be conducted.
26	**COMPLIANCE WITH THE CODE OF INTEGRITY AND NO CONFLICT OF INTEREST:**
	Any person participating in a procurement process shall- a) Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process; b) Not misrepresent or omit misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation; c) Not indulge in any collusion, bid rigging or any-competitive behaviour to impair the transparency, fairness and progress of the procurement process; d) Not misuse any information shared between the procuring entity and the bidders with an intent to gain unfair advantage in the procurement process; e) Not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any part or to its property to influence the procurement process; f) Not obstruct any investigation or audit of a procurement process; g) Disclose conflict of interest, if any; and h) Disclose any previous transgressions with any entity in India or any other country during the last three years or any debarment by any other procuring entity. **Conflict of Interest :** The bidder participating in a bidding process must not have a conflict of interest. A conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations.

	A bidder may be considered to be in conflict of interest with one or more parties in bidding process if, including but not limited to : a. Have controlling partners/shareholders in common; or b. Receive or have received any direct or indirect subsidy from any of them; or c. Have the same legal representative for purposes of the bid; or d. Have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the procuring entity regarding the bidding process; or e. The bidder participates in more than one bid in a bidding process. Participation by a bidder in more than one bid will result in the disqualification of all bids in which the bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a bidder, in more than one bid; or f. The bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specification of the goods, works or services that are the subject of the bid; or bidder or any of its affiliates has been hired (or is proposed to be hired) by the procuring entity as engineer-in charge/consultant for the contract. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as engineer-in-charge / consultant for the contract.
27	All correspondence in this connection should be addressed to the Managing Director JKMSCL, J&K. Technical questions should be referred to the Managing Director JKMSCL, J&K direct by correspondence or by personal contact.
28	(i) Direct or indirect canvassing on the part of bidders or their representative shall disqualify their bids. (ii) Supplier may be disqualified, banned or suspended from business during the rate contract if : (a) fails to execute a contract or fails to execute it satisfactorily ; (b) no longer has the technical staff or equipment considered necessary ; (c) is declared bankrupt or insolvent or its financial position has become unsound, and in the case of a limited company, it is wound-up or taken into liquidation ; (d) The firm is suspected to be doubtful loyalty to state. (e) The State Bureau of Investigation (SBI) or any other Investigating agency recommends such a course in respect of a case under investigation. (f) Managing Director JKMSCL, J&K is prima- facie of the view that the firm is guilty of an offence involving moral turpitude in relation to business dealings, which if established would result in business dealing with it banned.
29	No action on the letter head of the bidder /firm regarding any complaints against the JKMSCL will be considered unless the letter head bears the signature of the bidder or the authority higher than the bid signatory of the

	firm.
30	(i) If any certificate/documents/information submitted by the bidder found to be false/ forged/ fabricated/vexatious or frivolous or malicious appeals or complaints etc. than bidder shall be liable for the appropriate legal action along with disqualification, banning, suspension etc. for limited or unlimited period. (ii) Bidders are required to submit wanted information (if any) based on the facts. If the furnished information by the firm found to misleading or not based on facts disciplinary action against the firm may be taken as to banning concerned item/items for certain or uncertain period.
31	The JKMSCL reserves the right to accept any bid not necessarily the lowest. The JKMSCL may reject any bid without assigning any reasons and accept bid for all or anyone or more of the articles for which bidder has been given or distribute items of stores to more than one firm/supplier.
32	**GRIEVANCE**
	Grievance regarding interpretation of any clause of the contract/agreement executed between the parties shall be referred to Managing Director, JKMSCL for its clarification**.**
33	**ARBITRATION**
	33.1 Governing Law: This NIT shall be governed by and construed in accordance with the laws of the Union Territory of Jammu and Kashmir and the laws of India as applicable to the Union Territory of Jammu and Kashmir. 33.1.1 Amicable Settlement: Either party is entitled to raise any claim, dispute or difference of whatever nature arising under out of or in connection with the NIT including its existence or validity or termination (collectively "dispute") by giving a written notice to the other party, which shall contain i. a description of the dispute ii. the ground for such dispute iii. all written material in support of its claim 33.1.2 The other party shall, within thirty days of issuance of dispute notice issued, furnish: I. Counter claim and defences, if any, regarding the dispute; and II. All written material in support of its defences and counter claim 34.1.3 Within thirty days of issuance of notice by any party pursuant to para 29.1.2 both the parties to the dispute shall meet to settle such dispute amicably. If the parties fail to resolve the dispute amicably within thirty days of the receipt of the notice referred to in the above para the dispute shall be referred to Managing Director, JKMSCL, J&K for its reference to arbitration.

	Dispute Resolution: Besides, as referred above may also include any dispute arising out of contract with regard to the interpretation, meaning and breach of the terms of the contract, the matter shall be referred to the Administrative Department H&ME, who will, through Law Department, appoint a senior most officer as sole Arbitrator, of the dispute, who will not be related to this contract and whose decision shall be final and binding on both the parties. The Arbitrator proceedings shall be governed by the Arbitration and Conciliation Act, 1996. The venue of the Arbitration shall be in the UT of Jammu and Kashmir. **Note**: - Small grievances regarding interpretation of any clause of the Contract / Agreement executed between the parties shall be referred to Managing Director, JKMSCL for its clarification and such interpretation(s) given shall not become subject matter for reference to Arbitration
34	The JKMSCL will have the right of rejection of all or any of the bids without assigning any reason for the same. The right to conclude parallel rate contracts with another firm for the stores detailed in Table I is also reserved by the Managing Director JKMSCL, J&K
35	Extra stipulation or any other condition contrary to the above bid conditions are not acceptable and may render the bid liable to rejection.
36	The bidder must sign all the pages of bid document at the below of terms & conditions agreeing to abide by all conditions of the bid and accept them in toto. The Signing of Annexure A1 shall be treated as acceptance of all the terms and conditions of the bid document.
37	The Managing Director JKMSCL, J&K may relax or change/ modification in terms and conditions in the exigency excluding fundamental changes. In case of such urgency the terms & conditions shall be got approved from Purchase committee of Managing Director JKMSCL, J&K as the case may be.
38	**JURISDICTION:-** All actions, legal proceedings and suits arising from or connected to this bid shall be subject to the exclusive jurisdiction of courts in J&K only.

Section VI B: - Special Conditions of Contract (SCC)

The following Special Conditions of Contract (SCC) shall supplement the General Conditions of Contract (GCC). Whenever there is a conflict, the provisions herein shall prevail over those in the GCC. The clauses of special conditions of contract are as follows:-

Clause No.	Particulars
1.	Technical details, bid security, tender cost, tender processing fee and all other required documents should be uploaded under **Cover "A" Technical Bid** and financial details (BOQ) should be uploaded under **Cover "B".** No document except financial instrument (DD/FDR) & catalogues of the bid items shall be entertained physically by the Corporation.
2.	Pre-requisite, if any, for installation, including UPS, computer, printer, and other items should be provided by the firm in technical bid and financial bid respectively.
3.	Firm shall provide comprehensive maintenance with spare parts for item(s), as mentioned in Technical specification (from the date of installation / demonstration).
4.	Conditional bids shall not be considered.
5.	Normally, payment shall be released after installation, demonstration and successful commissioning of equipment/ITEM and satisfactory operational training.
6.	All certificates should be valid on the date of submission of bids and issue of supply order.
7.	The bidder should have well equipped local service centre in India preferably in J&K.
8.	i. The bidder shall be a manufacturer/direct importer/authorised representative of the original manufacturer/importer who must have manufactured/ imported and supplied and installed this equipment(s) in India satisfactorily. ii. The merger / amalgamation / transfer of business / transfer of assets etc. of a firm affects the bid condition relating to 'past performance' in preceding years. In cases where bidder acquired an ongoing business or assets of another entity, eligibility in respect of the past performance and condition relating to minimum turn over in preceding years shall be decided based on specific mention in purchase and transfer of ownership agreement / agreement of sale of business and / or its assets / board of directors (B.O.D) resolution chartered accountant certification or any other document (s) in this regard, which the bidder shall have to submit preferably with the bid. The eligibility of a bidder in this regard shall be ascertained by the purchase committee on the basis of the above stated agreement or any other document(s) and the decision of purchase committee shall be final.

9.	The name, make, model and brand of equipments, which are offered, should be mentioned in against each item. Mere indication of English/USA/Indian will not serve the purpose.
10.	In the case of supply of imported item the suppliers may be asked to furnish a certificate to the effect that the firm has completed all the formalities in connection with import of the item in question.
11.	In case the item approved by the JKMSCL is procured by any other department on the rate contract of JKMSCL, the administrative charges to the extent of 5% of the invoice value shall be deposited by the approved firm or else, the firm/supplier shall be liable to be penalised which may lead to blacklisting/debarring from entering into the tender process for not less than 05 years by JKMSCL besides forfeiture of earnest money or any other action as deemed fit by the Managing Director, JKMSCL.
13	The Supplier/service providing firm shall be liable to pay a **penalty of Rupees five thousand per day,** if the firm didn't respond after 48 hours from the time of receiving first complaint. The complaint may be sent to firm by way of telephone /fax/letter or e-mail. The amount of liquidation damage shall be directly deducted from the security deposit of the firm at the time of refund or before by way of any adjustment order. All breakdown calls to be attended within 24 hrs at (within city limits) and 48 hrs for other districts/peripheral areas otherwise the penalty shall be imposed as per penalty clause.
14	**In case of any default by the bidder, at any stage of tender or subsequent approval by JKMSCL, for a particular items/s, the Disciplinary Committee/ any other committee constituted for the purpose shall be at liberty to take appropriate action as per provisions of Standard Procurement Procedures (SPP) and / or Policy for Blacklisting of JKMSCL**

APPLICABILITY OF CLAUSES: - All the clauses from 1 to 38 of general terms and conditions and from 1 to 14 of special terms and conditions and their annexure, formats & enclosures are applicable for the bid items.

Managing Director
Jammu and Kashmir Medical Supplies Corporation Limited

I/We have read the above terms and conditions and I/We agree to abide myself/ourselves by the above terms & conditions of the bid document

Signature of bid with seal

Section VI C: Contract Forms (CF)

Table of contents

Annexure AI

(On Letter Head of the Bidder)

DECLARATION

I/We M/s. ..... represented by its Proprietor/managing Partner/Managing Director having its Registered Office at ..... and its Factory Premises at ..... do declare that I/we have carefully read all the conditions of bid no. ..... Dated.....including all the amendments in ..... Ref. .....for supply cum rate contract of ..... **Item name .....** for Jammu and Kashmir Medical Supplies Corporation Ltd. for the year 2022-23 and accepts all conditions of bid including amendments, if any.

I/We agree that the M.D. JKMSCL, Jammu / Srinagar (J&K) may forfeit bid security and or performance security and debar me/us for a period specifying in orders, if any information/document furnished by us is proved to be false/fabricated at the time of inspection and not complying with the terms and conditions of the bid document as presented in bid, Annexure-B and other relevant documents.

Signature & Seal of bidder
Name & Address:

Annexure All

Format-Authorized Representative of Original Manufacturer/Direct Importer

In case, original manufacturer/direct importer wish to authorise any representative to bid, to negotiate, to raise invoice to receive payments on behalf of original manufacturer/direct importer/against invoice raised by representative.

The Managing Director,
Jammu & Kashmir Medical Supplies Corporation Ltd.
J&K
Dear Sir,

We _____ who are established and reputed manufacturers of _____ having factories at _____ Registered office at _____ possessing manufacturing license No. _____ and do hereby authorize M/S _____ (Name and Address of Representative) to submit a bid and subsequently negotiate with you against the above mentioned tender, subject to the condition that I/we, the original manufacturer/direct Importer of the bidding items and our authorized representative _____ are ready to execute Tripartite agreement with the Corporation i.e JKMSCL stating inter-alia that:-

1. The invoice submitted by the authorised representative for such supplies shall be endorsed by me /us i.e. the original Manufacturer/Direct Importer of bidding items and original copy of the delivery challan of Manufacturer's towards authorised representative for such supplies shall also be endorsed along with invoice submitted by our Authorized Representative.
2. JKMSCL may secure an e-mail /alternative confirmation for authenticity of such supplies from Manufacturer/Direct Importer, before releasing the payment, which we are committed to provide.
3. The payment shall however be released on the terms and conditions of tripartite agreement to be signed between JKMSCL, Original Manufacturer / Direct Importer and the authorized representative of Original Manufacturer / Direct Importer of the bidding items for such supplies made by the authorized representative, on behalf of me / us.
4. In case of change of Dealership we shall be responsible for providing after sales services and maintenance of the equipment free of cost during the warranty period..

No company or firm or individual other that M/S _____ are authorized to bid, negotiate and conclude the contract in regard to this business against this specific tender.

I / we, further agree to comply with the conditions specified under Clause 2(a) –Eligibility Conditions, of the tender document. We hereby extend our full warranty as per the tender conditions for the goods offered for supply against this invitation for bid by the above Firm.

Yours faithfully
Name
For and on behalf of M/S
(Name of the manufacturer/Direct Importer)

Note: This letter of authority should be on the letter head of original Manufacturer/Direct Importer of bidding items **and should be signed and sealed by the Proprietor/ Managing Director of the firm / authorized signatory and shall have to be duly notarised.**

Machinery/Equipment (Bipartite Agreement)

[on Rs. 100/- Non-Judicial Stamp Paper- "Affidavit"]

Agreement: 1

(For Manufacturers/ Direct Importers only)

This deed of agreement is made on this ..... day of ..... 2022 between Jammu & Kashmir Medical Supplies Corporation Limited represented by its General Manager(P&S) having its registered office at Plot No. 58 Friends Colony, Trikuta Nagar, Jammu, 180020 /Opp. State Motor Garage office, Bemina, Srinagar (herein after referred to as "First Party" (Purchaser) which term shall include its successor, representatives, executers assigns, administrator and beneficiaries unless excluded by the contract) and M/s ..... (Original Manufacturer/ Direct Importer) represented by its Proprietor/ Managing Director/ Managing Partner/ Authorized Signatory of the company/ firm having its registered office at ..... and its factory premises at ..... (herein after referred to as "Second Party" (Suppliers) which term shall include its successors representatives, heirs, executers and administrators unless excluded by the contract).

Whereas the (Original Manufacturer/ Direct Importer) (Second Party)) have agreed to supply to First Party (Purchaser),Machinery & Equipment/Instruments with specifications mentioned in the scheduled attached here to at the prices noted herein and in the manner and under the terms and conditions herein after mentioned and whereas the second party has agreed to deposit performances security to first party, equivalent to 5% of the tentative cost/ contract value (rounded to the nearest round number) in the scheduled attached as per clause 11 of the tender document in the form bank of guarantee for the due and faithful performance of this agreement, to be forfeited in the event of Second Party failing duly and faithfully to perform it. Now these presents witness that for carrying out the said agreement in this behalf into execution the Second Part and the First Party (Purchaser) do hereby mutually covenant, declare, contract and agree each of them in the manner following, that is to say,

1. The term "Agreement", wherever used in these connection shall mean and includes the terms and conditions contained in the invitation to bid floated for the rate contract cum supply for Machinery & Equipment/Instruments for Jammu & Kashmir Medical Supplies Corporation Limited (Rate Contract for two years (24) months period, extendable for another three (03) months with mutual consent) (NIT/JKMSCL/M&E/2022/…….. dated …….. and technical bid opened on …….. , the instructions to bidders, the condition of bid, acceptance of bid, particulars herein after defined and those eligibility criteria, general conditions and other conditions that may be added from time to time.

2.1. The agreement is for the supply, by the Second Party (Suppliers) to the First Party (Purchaser), of the Machinery & Equipment/Instruments on terms and conditions set forth in the agreement.

2.2. This agreement shall be deemed to have come into force with effect from the date of signing of the agreement and it shall remain in force up to a period of two years (24) months which can further be extended for another three (03) months with mutual consent of First Party and Second Party.

2.3. The bid quantity noted against each item in the scheduled attached here to indicates only the probable/ tentative total requirement of the First Party in respect of each item for the agreement period indicated in clause "2.2" above. This quantity may increase or decrease at the discretion of the First Party. The Second Party (Supplier) shall make supplies of the Machinery & Equipment/Instruments on the basis of Purchase order only placed on him/ her from time to time by the ordering authority of First Party (Purchaser-JKMSCL) specifying the quantity required to be supplied at a specific location/ locations within the UT of Jammu and Kashmir.

2.4. The Second Party shall have no right/ query regarding placing of orders against the tentative requirement mentioned in the schedule enclosed which may increase or decrease or First Party may not issue any order for certain item/ items mentioned therein the schedule enclosed/ tentative/ Indicative quantity.

2.5. The release of payment shall be as per terms and conditions/ payment clause 17 of the tender document and after successful installation of the Machinery/Equipments at the end user site and after due verification of bills by the end user department and deduction and penalties as per the clause 18 & 19 of the tender document.

3. SUPPLIES ON THE RATE CONTRACT OF JKMSCL:

The Second Party shall in no case, use the rate contract of JKMSCL for making supplies and / or comparing of rates to/ with any of other department(s)/ agency(ies)/ NGO etc. In case Second Party/ firm/bidder/ manufacture /importer shall provide/supply any of the product item of **Identical descriptions/ Specifications,** at the rate contract /approved by JKMSCL to any of the department/NGO/other procuring institute within or outside the Union Territory of J&K. In case any supply is made in violation to the said condition (or), the supplier/ firm shall be liable to be penalized to the tune of 7.5% of order placed as per the provisions of standard procurement (SPP) of JKMSCL and further the Second Party shall be liable to be considered for Debarring/ Blacklisting for a period not less than five years.

4. TERMINATION OF CONTRACT ON BREACH OF CONDITION.

4.1. In case the supplier fails or neglects or refuse to faithfully perform any of the covenants on his part herein contained, it shall be lawful for the First Party to forfeit the amount deposited by the supplier (second party) as performance security and cancel the contract.

4.2. In case the Second Party neglects or refuse to observe, performs, fulfil and keep, or any one or more or any part of any one of covenants, stipulation and provisions herein contained, it shall be lawful for the First Party on any such failure, neglect or refusal, to put an end to this agreement and there upon on every article, cause and thing herein contained on the part of First

Party shall cease and be void and in case of any damage, loss, expenses, differences in cost or other from out of deposit/ due for the time being payable to the Second Party under this and/ or any other contract and in case such last mentioned deposit/ dues are insufficient to cover all such damages, loses, expenses, difference in cost and other deposit as aforesaid, it shall be lawful for the First Party to appropriate the performance security made by the supplier as herein before mentioned to reimburse all such damages, losses, expenses and difference in cost and other money as the purchaser shall be sustained, incurred or been put to by reason of the Second Party (Supplier) having been guilty of any such failure negligence or refusal as aforesaid or other breach in the performance of this contract.

4.3. If any time during the course of contract it is found that the information furnished by the Second Party (Supplier) to the First Party (Purchaser) either in his bid or otherwise, is false, the purchaser may put on end to the contract/ agreement wholly or in part and thereupon the provision of clause "4.1" above shall apply or any other action are deemed fit by the First Party may also apply.

4.4. The First party (Purchaser-JKMSCL) reserves the right to terminate, without assigning any reasons the contract/ agreement either wholly or in part, without any notice to the Second Party. The Second Party shall not be entitled for any compensation what so ever in respect of such termination of the contract/ agreement by the First Party.

5. All certificates or notices or orders for time or for extra, varied or altered suppliers which are to be the subject of extra or varied charges whether so described in the Agreement or not, shall be in writing and unless in writing shall not be valid, biding or be of any effect what so ever.

6.The Second Party (Supplier) shall not be in any way interested in or concerned directly or indirectly with any of the officer, subordinate or servants of the First Party. In any trade, business or transaction nor shall the Second Party give or pay or promise to give or pay any such officer, subordinate, servant directly or indirectly any money or fee or other consideration under designation of "Custom" or otherwise; nor shall the Second Party permit any person or persons whomsoever to interfere in the management or performance hereof under the Power of Attorney or otherwise without the consent in writing of the First Party obtained in first hand.

7. In case the Second Party (Suppliers) at any time during the continuance of the contract becomes bankrupt of or in solvent or commits any act of bankrupt or insolvency under the provisions of any law in that behalf for the time being in force or should compound with his creditors, it shall be lawful for the First Party to put an end to the agreement and there upon on every article , clauses and thing herein contained to be operative on the part of the purchaser, shall cease and be void and the First Party shall have all the rights and remedies given to him under the preceding clauses.

8. SERVING OF NOTICE TO SUPPLIER

8.1. All notice or communication relating to or arising out of this agreement or any of the terms thereof shall be considered duly served on or given to the Second Party (Suppliers) if delivered to him or left at his/ her premises, place of business or abode.

9. And it is hereby agreed and declared between the parties hereto that in case any question of dispute arises touching the construction or wording of any of clause herein contained the rights, duties, liabilities of the parties hereto or any other way, touching or arising out of the presents the decision of the Managing Director, JKMSCL in the matter shall be final and binding.

10. All disputes arising out of this agreement and all questions relating to the interpretation of this agreement shall be decided by first and the final appellant authority and decision of said authority shall be final.

11. The following documents shall be deemed to form & be read & construed as part of this agreement:

a) LOI
b) NIT & Corrigendum issued thereof, if any.

11.1 Secondparty shall indemnify and keep the First party free from any harm, against all losses, expenditures, damages, costs & claims incurred or suffered by or made against the Second/Third party by reason of any breach by the same of any of its obligations, covenants, representations & warranties.

11.2 NIT Ref. No: NIT/JKMSCL/M&E/2022/……dated……

11.3 List of Equipment(s), accessories, optional items (if any) under this agreement.

12. All terms and conditions of the NIT shall be the part of this agreement.

Original Manufacturer/ Direct Importer	Jammu & Kashmir Medical Supplies Corporation Ltd
(Supplier)	(First Party)
(Second Party)	Represented by
(Signature, Name & full Address with stamp	General Manager (P&S)/ JKMSCL

(Signature, Name & full Address with Stamp)

Witness (Signature, Name & Address)	Witness (Signature, Name & Address)
1.	1.
2.	2.

Machinery/Equipment (Tripartite Agreement)

[on Rs. 100/- Non-Judicial Stamp Paper- "Affidavit"]

Agreement: 2

(Tripartite Agreement for Authorized Agents/Dealers/Facilitators)

This deed of agreement is made on this ..... day of ..... 2022 between Jammu & Kashmir Medical Supplies Corporation Limited represented by its General Manager (P&S) having its registered office at Plot No. 58 Friends Colony, Trikuta Nagar, Jammu, 180020 /Opp. State Motor Garage office, Bemina, Srinagar (herein after referred to as "First Party" (Purchaser) which term shall include its successor, representatives, executers assigns, administrator and beneficiaries unless excluded by the contract), M/s ..... (Original Manufacturer/ Direct Importer) represented by its Proprietor/ Managing Director/ Managing Partner/ Authorized Signatory of the company/ firm having its registered office at ..... and its factory premises at ..... (herein after referred to as "Second Party" (Suppliers) which term shall include its successors representatives, heirs, executers and administrators unless excluded by the contract) and M/s ..... (Authorized agent/ dealer/ facilitator) represented by its Proprietor/ Managing Partner/ Managing Director having its registered office at ..... (herein after referred to as "Third Party"- (Authorized Agent/ Suppliers/ Dealers) of Second Party, which term shall include its successors representative, heirs, executers and administrators unless excluded by the contract).

Whereas the (Original Manufacturer/ Direct Importer) (Second Party/ Third Party (Authorized agents/ dealer)) have agreed to supply to First Party (Purchaser), Machinery & Equipment/Instruments with specifications mentioned in the scheduled attached here to at the prices noted herein and in the manner and under the terms and conditions herein after mentioned and whereas the second party/ third party have agreed to deposit performances security to first party, equivalent to 5% of the tentative cost/ contract value (rounded to the nearest round number) in the scheduled attached as per clause 11 of the tender document in the form of bank guarantee for the due and faithful performance of this agreement, to be forfeited in the event of Second Party/ Third Party failing duly and faithfully to perform it. Now these presents witness that for carrying out the said agreement in this behalf into execution the Second Part/ Third Party, and the First Party (Purchaser) do hereby mutually covenant, declare, contract and agree each of them in the manner following, that is to say,

1. The term "Agreement", wherever used in these connection shall mean and includes the terms and conditions contained in the invitation to bid floated for the rate contract cum supply for Machinery & Equipment/Instruments for Jammu & Kashmir Medical Supplies Corporation Limited (Rate Contract for twenty-four (24) months period, extendable for another three (03) months with mutual consent) (NIT/JKMSCL/M&E/2022/……dated……and technical bid opened on…….., the instructions to bidders, the condition of bid,

acceptance of bid, particulars herein after defined and those eligibility criteria, general conditions and other conditions that may be added from time to time.

2.1. The agreement is for the supply, by the Second Party/ Third Party (Suppliers) to the First Party (Purchaser), of the Machinery & Equipment/Instruments on terms and conditions set forth in the agreement.

2.2. This agreement shall be deemed to have come into force with effect from the date of signing of the agreement and it shall remain in force upto a period of twenty-four (24) months period which can further be extended for another three (03) months with mutual consent of First Party and Second Party/ Third Party.

2.3. The bid quantity, if mentioned against each item in the schedule indicates only the probable/ tentative total requirement of the First Party in respect of each item for the agreement period indicated in clause "2.2" above. This quantity may increase or decrease at the discretion of the First Party. The Second Party/ Third Party (Supplier) shall make supplies of the Machinery & Equipment/Instruments on the basis of Purchase order only placed on him/ her from time to time by the ordering authority of First Party (Purchaser-JKMSCL) specifying the quantity required to be supplied at a specific location/ location within the UT of Jammu and Kashmir.

2.4. The Second Party/ Third Party shall have no right/ query regarding placing of orders against the tentative requirement mentioned in the schedule enclosed which may increase or decrease or First Party may not issue any order for certain item/ items mentioned therein the schedule enclosed/ tentative/ Indicative quantity.

3. AUTHORIZED AGENTS/ DEALERS OF SECOND PARTY:

3.1. In this agreement, the Second Party (Original Manufacturer/ Direct Importers) have authorised M/s ..... ; (Third Party) as Agent/ Distributers/ Dealers to submit bid, to negotiate with First Party, to raise invoice and receive payment on behalf of Second Party; and as such, supplies shall be endorsed by the Second Party M/s ..... (Original Manufacturer/ Direct Importers) and original copy of delivery challan of Second Party towards the Third Party for such supplies shall be endorsed along with invoice submitted by Third Party to First Party.

3.2. The Corporation under such arrangements shall have a right to secure confirmation to authority of suppliers from Second Party before releasing the payments.

3.3. The release of payment shall be as per terms and conditions/ payment clause 17 of the tender document and after successful installation at end user site and proper verification of bills from the end user department and deduction & penalties as per the clause 18 & 19 of the tender document.

4. SUPPLIES ON THE RATE CONTRACT OF JKMSCL:

The Second Party or Third Party shall in no case, use the rate contract of JKMSCL for making supplies and / or comparing of rates to/ with any of other department(s)/ agency(ies)/ NGO etc. In case Second Party/ Third Party supplies any of the item(s) at the rate contract or provides the document for comparison of rates or otherwise, to any other department(s)/ agency(ies)/ NGO(s) etc, the defaulted Second Party or Third Party, wherever applicable, shall have to pay 7.5% of the total invoice value of the product(s) supplied to other department(s)/ agency(ies) etc at the rate contract of JKMSCL as penalty to the first party (JKMSCL-purchaser) and further the Second Party/ Third Party shall be liable to be considered for Debarring/ Blacklisting for a period not less than five years.

5. TERMINATION OF CONTRACT ON BREACH OF CONDITION.

5.1. In case the supplier fails or neglects or refuse to faithfully perform any of the covenants on his part herein contained, it shall be lawful for the First Party to forfeit the amount deposited by the supplier (second party/ third party) as performance security and cancel the contract.

5.2. In case the Second Party/ Third Party fails, neglects or refuse to observe, performs, fulfil and keep, or any one or more or any part of any one of covenants, stipulation and provisions herein contained, it shall be lawful for the First Party on any such failure, neglect or refusal, to put an end to this agreement and there upon on every article, clause and thing herein contained on the part of First Party shall cease and be void and incase of any damage, loss, expenses, differences in cost or other from out of deposit/ due for the time being payable to the Second Party/ Third Party under this and/ or any other contract and in case such last mentioned deposit/ dues are insufficient to cover all such damages, loses, expenses, difference in cost and other deposit as aforesaid, it shall be lawful for the First Party to appropriate the performance security made by the supplier as herein before mentioned to reimburse all such damages, losses, expenses and difference in cost and other money as the purchaser shall be sustained, incurred or been put to by reason of the Second Part/ Third Party (Supplier) having been guilty of any such failure negligence or refusal as aforesaid or other breach in the performance of this contract.

5.3. If any time during the course of contract it is found that the information furnished by the Second Party/ Third Party (Supplier) to the First Party (Purchaser) either in his bid or otherwise, is false, the purchaser may put an end to the contract/ agreement wholly or in part and thereupon the provision of clause “5.1” above shall apply or any other action are deemed fit by the First Party may also apply.

5.4. The First party (Purchaser-JKMSCL) reserves the right to terminate, without assigning any reasons the contract/ agreement either wholly or in part, without any notice to the Second Party/ Third Party. The Second Party/ Third Party shall not be entitled for any compensation what so ever in respect of such termination of the contract/ agreement by the First Party.

6. All certificates or notices or orders for time or for extra, varied or altered suppliers which are to be the subject of extra or varied charges whether so described in the Agreement or not, shall be in writing and unless in writing shall not be valid, binding or be of any effect what so ever.

7. The Second Party/ Third Party (Supplier) shall not be in any way interested in or concerned directly or indirectly with any of the officer, subordinate or servants of the First Party. In any trade, business or transaction nor shall the Second Party/ Third Party give or pay or promise to give or pay any such officer, subordinate, servant directly or indirectly any money or fee or other consideration under designation of "Custom" or otherwise; nor shall the Second Party/ Third Party permit any person or persons whomsoever to interfere in the management or performance hereof under the Power of Attorney or otherwise without the consent in writing of the First Party obtained in first hand.

8. In case the Second Party/ Third Party (Suppliers) at any time during the continuance of the contract becomes bankrupt of or in solvent or commits any act of bankrupt or insolvency under the provisions of any law in that behalf for the time being inforce or should compound with his creditors, it shall be lawful for the First Party to put an end to the agreement and there upon on every article , clauses and thing herein contained to be operative on the part of the purchaser, shall cease and be void and the First Party shall have all the rights and remedies given to him under the preceding clauses.

8.1. In case Third Party, (Authorized Agent/ Dealer/ facilitator- clause 3) at any time during the continuance of the contract become bankrupt of or insolvent or commits any act of bankrupt or insolvency either provisions of any law in that behalf for the time being in force, or should compound with his creditors, the Second Party, (Original Manufacturer/ Direct Importers) shall be bound to continue with the supplies directly for the First Party till the completion of contract otherwise it shall be lawful for the purchaser to put an end to the agreement and thereupon every article, clause and thing herein contained to be operative as part of First Party, shall cease and be void and the First Party shall have all the rights and remedies given to him under the preceding clauses.

8.2 SERVING OF NOTICE TO SUPPLIER

All notice or communication relating to or arising out of this agreement or any of the terms thereof shall be considered duly served on or given to the Second Party/ Third Party (Suppliers) if delivered to him or left at his/ her premises, place of business or abode.

9. And it is hereby agreed and declared between the parties hereto that in case any question of dispute arises touching the construction or wording of any of clause herein contained the rights, duties, liabilities of the parties hereto or any other way, touching or arising out of the presents, the decision of the **Managing Director, JKMSCL** in the matter shall be final and binding.

10. All disputes arising out of this agreement and all questions relating to the interpretation of this agreement shall be decided by first and the final appellant authority as reflected in NIT and decision of said authority shall be final.

11. The following documents shall be deemed to form & be read & construed as part of this agreement:

c) LOI
d) NIT & Corrigendum issued thereof, if any.

11.1Second/Third party shall indemnify and keep the First party free from any harm, against all losses, expenditures, damages, costs & claims incurred or suffered by or made against the Second/Third party by reason of any breach by the same of any of its obligations, covenants, representations & warranties.

11.2 NIT Ref. No: NIT/JKMSCL/M&E/2022/……dated……

11.3 List of Equipment(s), accessories, optional items (if any) under this agreement.

12. All terms and conditions of the NIT/relevant clause of SPP of JKMSCL shall be the part of this agreement.

Authorized Agent/ Dealer	Original Manufacturer/ Direct Importer (Supplier)
(Third Party)	(Second Party)
(Signature, Name & full Address with stamp)	(Signature, Name & full Address with stamp)

Witness (Signature, Name & Address)	Witness (Signature, Name & Address)
1.	1.
2.	2.

List of equipments along with their specifications

S. No.	Name of the equipment	Specifications
1.	**Pediatric ICU Beds** **(High end)**	**Advance Motorized ICU bed with integrated weighing scale with Tubular Therapeutic pressure redistribution support system** 1. Bed should have Electrically operated backrest, height, Trendelenburg & reverse Trendelenburg, thigh section adjustments & cardiac chair position. 2. Blow moulded ABS plastic four sectional fully removable Curved mattress platform 3. Bed should have four blow moulded ABS plastic entrapment free split side rails with 6 nos of Embeded patient controls.embedded 2Nos. patient remotes on inner side of head end side rail panel, 2 Nos. attendant remotes on outer side of head end side rail panel and 2 Nos. nursing remotes on outer sides of foot end side rail panel. No wired remotes should be provided. 4. Motorised retracting and elevating backrest movement up to 60-62º with analog angle indicator. Backrest should take default pause at 30º for 3 second while profiling upward from 0 º to 60-62º when operated from nursing remote. 5. Motorised retracting and elevating thigh section movement up to 18-20º with analog angle indicator. 6. Default Fowler position of calf section. If the vascular position is required, then a small lift of the calf section should engage the mechanism which lifts the calf section as the bed continues to profile upwards and will get flat as section profiles downwards. 7. Single button operated motorised cardiac chair position. 8. Single button operated motorised beach chair position. 9. Motorised height adjustment from 32cm to 76cm. 10. Motorised reverse Trendelenburg & Trendelenburg from 0º to + 12º &- 12º with 0º pause for 3 second during tilt operations. 11. Digital angle indicator for backrest and tilt angles. 12. Patient egress bed exist audio alarm to detect that patient has exited the bed when patient is not suppose too. 13. Integrated weigh scale with accuracy resolution of +/-500gm or + /-100gms 14. Weight auto compensation facility for allowing weight to be added or removed from the bed without affecting patient's weight. 15. Weight zeroing facility to initialize bed and add-on accessory's weight before placing patient on the bed. 16. Bed should have facility to display patient weight on both sides of side rails panels in bed. 17. Safe Working Load of 250Kg. 18. Overall standard length of 235cm. Bed should have facility to shorten it to 219cm and extend it to 247cmwith mattress retainer platform. 19. Overall width of 103-105cm 20. Under bed clearance of 162-165mm for mobile hoist compatibility. 21. 4 Nos. 125-130 mm diameter anti-static European make castors with single action linked breaking and steer castor lockout system for straight line steering from front wheels. 22. Function lockout switches on nursing remote. 23. USFDA & European CE certified 24. **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
2.	**Advanced 64 Channel EEG Machine**	1. Video EEG including PSG system with more than 80 channels of amplifier. 2. Must have minimum 40 referential Channels, 24 Programmable (from Differential to Referential) and 16 DC Channels with SPO2 and Body Position.

		3. Amplifier must also have built-in Oximetry, patient event button and photic connectivity 4. The Electrode box should be of design of 10-20 International EEG Electrode Placement (Head Shaped). 5. Analog to Digital converter : 24 bits of ADC resolution or better 6. Sampling rate : 4 KHz or better for each & every distinct channel. Sampling Rate should not go down with increase in number of channels. 7. Common Mode Input Impedance should be greater than 1 Gega Ohms. 8. Equipment should be Sturdy to use. 9. Input Noise (Peak to Peak) < 2 µV. 10. Amplifier connectivity : Both Ethernet and USB. 11. Must support both Static and Dynamic IP address while connecting to network. 12. Amplifier and patient electrode connection box must be two separate devices so that least damage happens to the amplifier when mishandling of the electrode connection box happens 13. The electrode connection box should be so isolable that patient can carry electrode connection box while moving. Patient electrode box should be a portable one and light in weight. 14. The system should have the capability of acquiring data from both cap electrode and disc electrode. 15. Amplifier Should have an option to connect the Cap directly with single connector on amplifier and not by individual connector for each channel. 16. Integrated 8 –Bit trigger for synchronizing external events 17. Gold Plated EEG Electrodes – 100 Nos. 18. Patient Event Button – 2 Nos. (One for Patient and Other for Attendant). 19. EEG Paste (220 Gms) - 50 Nos., Skin Prepping Gel – 20 Nos., Head Cap – Medium Size (20 Channels) – 2 No. Software: 20. Should have ability to continue a previous recorded study in the software. i.e. appending the previous record on a later date or time. 21. Should have facility to configure data acquisition to start periodically in an automated fashion. 22. Software should allow the user to prune the PSG / EEG and Video data. 23. Software should have security features to allow / deny access to users to various function based on user profile. 24. Should have report generation facility in MS-Word format, which can be later assigned to particular patient. 25. Should have Individual Channel Control, Customization of Montages, along with remontage Capabilities through tool bar acceleration buttons. 26. Should Combine all user defined settings into templates or protocol, for use in different applications and the protocols should be available for user by a menu selection. 27. Should arrange montages into sets for different patient groups & should display a graphical view of the current montage during the EEG recording 28. Should define New Sensors should be included as standard viz assign to amplifier inputs, define traces in a montage, define calculated channels (Average, Source/ Laplacian), or define Trends. 29. Facility to click any point to display corresponding traces & Slide pointer to change displayed duration of the Overview. Display of Time Scale in either elapsed time or time of day. 30. Sortable list of all events placed in the recording, both automatically and manually placed such that when event is click, it show corresponding EEG.

		31. Review and add events to recorded traces in Review Pane while still displaying live traces in Live Pane. 32. Should have Automatic Spike and Seizure Event Detector Software. 33. Software should be provided with AI Based Autoscore, Autoscore should performs with accuracy, sensitivity and specificity near or above 90%, study level assessment, differentiating normal from abnormal EEGs, and for abnormal EEGs, further subclassifying into 4 clinical categories namely Focal epileptiform, Generalized epileptiform, Focal non-epileptiform and Diffuse non-epileptiform. 34. Should have Density Spectral Array for atleast 20 channels. 35. Should be supplied with an LED photic stimulator on an adjustable stand so that photic artefacts doesn't interfere EEG signals with Manual and automatic programmable through software. 36. Automatic time counters and event insertion during Hyperventilation. Video Camera (01 no) 37. Should have facility to record patient video using high resolution camera with fully synchronized Video or better. 38. Wall mounted High Definition (HD) Digital video Camera. Synchronization between Video & EEG recording. 39. Full HD Networked Video Camera with PTZ Control to be provide alongwith the system. Acquisition Station Computer: 40. Desktop system with Core i7 or better available processor 16 GB RAM, 1 TB SSD, Key board, optical mouse with standard accessories, UPS 1 KVA, Metallic Trolley with Caster, Laser Printer. 41. Should come preloaded with Microsoft genuine windows 10 / 11 with latest service pack 42. Should come preloaded with genuine latest Microsoft Office. 43. Should be preloaded with genuine antivirus tool 44. The data acquisition system should be supplied along with-recovery software created while initializing the machine. General Specification: 45. It is mandatory that the system should be Certified US FDA approved. Vendor to attach the Certificate clearly mentioning the model, address of manufacturer and validity on the certificate. 46 Comprehensive Training to Lab Staff until familiarity with the equipment to be provided. 24. Machine specific Consumables rate to be quoted separately and fixed for 3 years.
3.	**Transport Ventilator**	1. Should be suitable for use with both intubated and Non-invasive (Mask) ventilated Patients. Patient category Neonate patients. 2. The ventilator should have versatility to be used in transport application intra-hospital and inter-hospital too. It should have weaning modes required for stabilizing patient, pre and post transport, like control modes, SIMV mode, dual modes like PRVC, support mode. 3. Should be light weight (less than 8 kg.) and user friendly. 4. Microprocessor controlled having minimum 8 inch display colour screen. The machine should be operable with touch screen facility for ease of operation. 5. Ventilator should work on mains power of 220-240VAC 50Hz. 6. It should have provision to power up the ventilator through 12VDC ambulance power. 7. Ventilator should have hot-swappable battery during transport for extended battery backup time with extra batteries. It should have integrated battery backup for at least 7 hours' full function backup.

		The batteries employed in the ventilator should be hot-swappable, giving flexibility to users to change batteries without interruption of ventilation to the patient. 8. Types of Ventilation: Volume, Pressure and combination. 9. Modes of ventilation: (a) CMV - Pressure, Volume (b) Assist Control - Pressure, Volume (c) SIMV / SIMV-PS - Pressure, Volume (d) CPAP / CPAP-PS (e) PRVC (f) High flow nasal Oxygen (g) NCPAP – Nasal CPAP 10. Monitoring (a) Waveform: Airway Pressure, Flow, Volume. 11. Loop: Pressure-Volume, Flow -Volume 12. Adjustable pressure limit to safely cope with all patients. 13. Pneumatic Source: Inbuilt turbine for air, connection for high pressure Oxygen and low pressure oxygen source. 14. Control Settings: (a) Tidal Volume: 2 - 100 ml. in Volume Mode (b) Frequency: Up to 150 BPM (c) Trigger, Flow: 0.5 to 25 LPM (d) Trigger, Pressure: -0.2 to -10 cm H2O (e) Pressure control: 0 to 60 cmH2O (f) Pressure support: 1 to 60cmH2O (g) PEEP, Integrated: Up to 25 cm. of H2O (h) Adjustable Inspiratory / expiratory time ensuring that one should be able to deliver I:E ratio from 3:1 to 1:8. (i) FiO2: Seamlessly adjustable from 21% to 100% 15. The device must work with both low pressure (oxygen flowmeter / oxygen concentrator etc.) and high pressure oxygen at 2.5-5 bar. 16. Should have inspiratory flow up to 180 LPM 17. The scope of supply should be complete with (a) Ventilator Basic Unit (b) Mobile cart for use in ICU (c) Ambulance Wall Mount (d) Bed rail mount for transportation (e) 12V DC Power Cable (f) Oxygen Supply Hose (g) Breathing System (Complete with Breathing Valve & Flow Sensor), Adult, Disposable - 3 Sets (h) Breathing System (Complete with Breathing Valve & Flow Sensor), Infant, Disposable - 3 Sets (i) Test Lungs (Not Rebreathing Bag), Adult - 1 No. (j) Pressure Regulator with Hose (for attaching portable oxygen cylinder which is not included in scope of supply) 18. Should visual and audible alarms for all the parameters including disconnect / apnea. 19. The offered model should be (a) BS EN 60601-1-12: 2015 for EMS Environment: water ingress, 6-axis vibration and drop test (b) EN794-3:1998+A2 Particular Requirements for Emergency & Transport Ventilators (except for clauses 10.2.1 & 51.103). (c) Certification for RTCA DO-160 aviation standard for airworthiness of the ventilator for use on rotating and fix wing aircraft. (d) Ventilator should bear safety rating EN 60601-1 Class-I, IP44 safety standard.

		(e) Certified and compliant with IEC EN-1789 for transport application. 20. The unit should be certified and compliance with US-FDA 510(k) and European CE. 21. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**.
4.	**Near infrared Spectroscopy Patient monitoring with upgradable – Advanced Parameters, Remote Monitoring and Hospital Automation**	1. Monitor for Non invasive Monitoring of brain Function with Regional Oximetry in patients. 2. Brain function monitoring with following features. a) Should provide customizable Trend and views. b) Should have streamlined design easy and quick to apply sensor. 3. Regional Oximetry monitoring with following features a) Should use Near Infrared Spectroscopy and reflectance Pulse oximetry for accurate monitoring to tissue oxygen saturation in brain. b) Should provide differential analysis of regional to arterial oxygen saturation for reference SPO2 c) Should have numerical Display of Regional oximetry (rSO2), O3 (Forehead Arterial Oxygen saturation), delta base (diff between current rSO2 and user defined baseline), AUC Index (to quantify depth and duration of patient stay below Rso2 alarm limit), delta spo2 (Diff between Spo2 and Rso2). d) Should provide graphical Trend display for regional Oximetry 4. It should be suitable for all types of patient profile: Adult, Pediatric, Infant and Neonate. Patient monitor should provide continuous, simultaneous measurements and displays of the parameters: SpO2, Pulse Rate, Perfusion Index, Pleth variability index, RRp (Respiratory Rate through Pleth), NIBP, temperature. 5. Monitoring should be based on SET or equivalent technologies. Should have the facility to measure these parameters for spot check and at fixed time intervals. 6. Beside monitor should have selectable SpO2 averaging Modes-2, 4, 8, 10, 12, 14 or 16 seconds & Sensitivity settings APOD, Normal & Max. 7. Should provide visual instructions, animations, an automatic synchronization algorithm and a detailed, easy - to interpret display of screening results. 8. Monitor should have Multi-touch Backlit TFT LCD Colour display at least 10'' size with Adjustable Brightness. Monitor should be high resolution (1280 x 800 Pixels). 9. Should also have an integrated hand-held monitor. This monitor should be detachable and usable as a portable independent monitor with inbuilt battery backup for at least four hours. 10. Individual patient pulse oximeter with monitor should have rotational color touch screen with automatic, change to horizontal or vertical view. 11. Patient monitor should have facility to customize display to see parameter, waveforms or trend patients. Monitor should have in built battery backup for at least four hours. 12. Display and measurement range, resolution and accuracy of beside monitor should be as follows:- i) Accuracy: Accuracy in no motion ´ 3 bpm Accuracy in motions ´ 5 bpm, Accuracy of parameters in low perfusion i.e 0.2, Display and measurement range infant/neonate/pediatric/adult patient profile., ii) Pleth Variability Index 0 to 100%, iii) Oxygen Saturation 0-100%, iv) Pulse Rate (PR) 25-240bpm, v) Perfusion Index (PI) 0.02-20%, vi) NIBP (Adult, Pediatric, Neonatal) Systolic 40-260 mmHg, 40-230 mmHg, 40-130 mmHg. vii) The device should be adaptable to various workflows, with three NIBP measurement modes: Automatic interval, Stat Interval, Spot check. 13. The device must have integrated temperature monitoring. 14. Each Monitor should be supplied with following accessories/consumables and price of these accessories must be quoted separately for valid for min 3 years

		i) Spo2 Saturation Probe - 2 nos ii) Spo2 Extension Cables - 2 nos iii) NIBP Cuff Adult/Pediatrics /Neonatal - 2 nos Each iv) NIBP Hose Pipes - 2 nos 15. There should be continuous and non invasive measurements from device securely to central monitoring station. 16. The monitoring devices used in system should have ports as a connectivity hub for 3rd party standalone devices. 17. The devices used in system should be able to upgrade for advance co-oximetry i.e. non invasive monitoring of met-hemoglobin, carboxyhemogobin, Oxygen reserve index, Oxygen content. 18. Should be compatible for connectivity with existing wherever available patient safety net remote monitoring and notification system,. 19. The device used in system must have open connects to later upgrade for advance brain monitoring like, Depth of Anesthesia and cerebral/regional oximetry and Hemodynamic monitoring , ETC02 with Multi gas monitoring. 20. All future upgradable modules should be quoted separately as optional items. 21. The system should have options for remote monitoring and clinician notification system which displays near real-time information from bedside device at a central station (minimum in the ratio of 10 Monitors: 1 Central View Station per location) and allows for alarms and alerts from bedside devices to be sent directly to clinician. 22. The system should monitor the patients by the bedside and relay, the data to a central monitoring station from where the patients can be monitored. 23. Central Monitoring Station should be-color touch screen at least 21" size. It should have customizable view station and should be able to monitor 40 patients at a glance and /or numeric views, to quickly investigate patient alarms and review trend data from a central monitoring station. 24. It should have facility of comprehensive review of trend data with windows selection of 10 minutes to 96 hours display on the central monitoring station. 25. The notification system should be capable of sending alarm notifications to care givers and should have auto escalation features for providing fool proof redundancies. 26. Should have alarm notification system with real time data with Phones (at least 2 nos.) with previous for auto escalation. 27. It should have mobile clinician notification in which alarm notifications are directly sent to clinicians and Auto escalation should be programmable as per the care area need. 28. It should send actionable patient alarms directly to qualified clinicians for immediate patient assistance. 29. It should allow 3rd party device data to be passed through bedside device to central station, Central view station will display the data from 3rd party devices not the bedside monitor. 30. It should enable the customization of alarm and notification thresholds to meet clinical requirements. 31. System should allow 3rd party messaging with gateways that comply to TAP 1.6/1.8 over Ethernet of HL7. 32. All the products should meet highest quality standards of US FDA and European CE Certification. 33. **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
5.	**Multipara Monitor with invasive blood monitoring**	**Technical Specifications-** 1. High-end latest design Modular Multi-parameter patient monitoring system 2. Monitor should be capable for monitoring ECG, SPO2, RESP, 2XTEMP, 2XIBP simultaneously as a standard

	system with transducers	3. Monitor should be ready to upgrade EtCO2, AGM, Entropy/BIS, NMT and Cardiac output in future by just adding the Module .The simultaneous monitoring of ECG, SPO2, RESP, 2XTEMP, 2XIBP, EtCO2, AGM, Entropy/BIS, NMT and Cardiac output should be possible 4. Screen Size 15 inches or more color Capacitive Touchscreen display and highly visible alarm light 5. Monitor should display up to 12 waveforms at a time individually 6. Monitor should have 7 optimized user modes, Standard Adult, Paed& Neonate mode with OxyCRG and configurable for different care areas 7. Monitor should have different screen layout to view big font size in numeric and waveforms 8. Monitor should have trending facility for up to 168 hours of both Graphical & Numerical 9. Should have Snapshots facility up to 200 - Manual or alarm triggered 10. Monitor should have facility for National Early Warning score which helps the clinicians to know the patient's condition better 11. Should be capable to connect to a slave display 12. Minimum Battery back – up to 4 hours 13. Connectivity to Central stations should be standard thru Wifi or thru LAN 14. Monitor should be capable to monitoring 12 lead ECG by connecting 10 lead wire 15. Monitor should have Simultaneous four-lead analysis which helps optimize the detection and analysis of arrhythmias, helping ensure no cardiac event goes unnoticed. The algorithm helps distinguish noise and artifacts from true beats, reduces false alarms, and enables uninterrupted ECG monitoring even in the event of a single electrode failure. 16. Monitor should have smart lead fail detection to monitor ECG uninterrupted 17. Should have ST segment Analysis with ST Trend for Adult, Paed and Neonates patient 18. Monitor should have Full Arrythmia detection for Adult, Paed and Neonates including Atrial Fibrillation detection 19. NIBP technology utilizing "smart cuff" pressure control to improve measurement time, patient comfort, and artifact rejection 20. SpO2 should have ability to reject motion artifacts and detection even at low perfusion, Display plethysmography and perfusion index number and SPO2 value. 21. Monitor should be able to measure PPV and SPV parameters simultaneously to guiding fluid therapy for patient on Mechanical ventilation 22. Monitor should be capable for Bed-to- Bed View connectivity thru LAN and should be able to connect 1023 beds 23. Bed-to-Bed View window data should display - 6 waveforms and numeric with remote alarms 24. Monitor should be able export trend data thru USB with password protected 25. Demo Mode should be available as standard 26. Monitor should have option to upgrade modular 3-Channel recorder which can be interchanged between the monitors for print 27. Basic Patient side module for Measuring Parameters like ECG, NIBP, SPO2, RESP,2XTEMP,2XIBP 28. Filed Upgradable to AGM, EtCO2, Entropy/BIS, NMT and Cardiac Output by just adding a module 29. Monitor should have full disclosure feature for up to 72 hours for all parameters waveforms. 30. Monitor Should be HL7 Compliant which connects to EMR direct 31. Cardiac output monitoring should be thermodilution method by adding the module (Extra Module future upgradeable) – to be quoted seperately 32. Cardiac output module should have one IBP port inside the module to monitor 3rd IBP (Extra Module future upgradeable) – to be quoted seperately 33. Monitor should have capability to monitor NMT by inserting the module inside the monitor 34. NMT monitoring should have TOF, DBS, ST and PTC mode of stimulation and Supermax Current and recovery note block alarms (Extra Module future upgradeable).NMT monitoring should be possible via KMG and EMG technology - – to be quoted seperately

		35. Monitor should be capable to monitor Entropy/BIS by inserting the modules (Extra Module future upgradeable)- – to be quoted seperately 36. Monitor should be capable to Monitor the Anesthesia gas monitoring by inserting the modules (Extra Module future upgradeable) - – to be quoted seperately 37. AGM should be compact and modular in nature and measured a 5 kind of auto identify anesthetic agent and even mixture of 2 agent with MAC value (Extra Module future upgradeable)- to be quoted seperately 38. AGM should be display both inspired and expired value following gases- CO2, O2, N2O and anesthetic gas agent and balance gas (Extra Module future upgradeable) 39. ETCO2 Module should be side-stream measurement method and easily swappable between the monitor (Extra Module future upgradeable) 40. EtCO2 monitoring should display - waveforms and numeric value as EtCO2, FiCO2 and RR (Extra Module future upgradeable) - – to be quoted seperately 41. Upgradable modules should be interchangeable freely within all Monitors 42. Standard Certifications –FDA and CE Approved 43. Monitor should be able to withstand an accidental drop and document needs to be submitted accordingly 44. Should also be upgradable to display pictorial analysis by plotting the effects of the analgesic and anesthetic drugs 45. Monitor should have facility to connect with laser printer/ network printer to take the printout from monitor. 46. The manufacturers / suppliers quoting for a monitor being manufactured in a country sharing common boundary with India will not be considered **47. Scope of supply for each monitor:** a. ECG Cable & ECG 5 Leads wire for adult - 1 set b. SpO2 Sensor Adult – 1 No c. SpO2 Sensor Pediatric– 1 No d. NIBP Hose- 1 No e. NIBP cuff Adult – 1box f. NIBP cuff Pediatric– 1box g. Dual Temp rectal and skin Probe- 1 each h. Dual IBP interface Cable with 10 transducer set-1 No i. Wall Mount-(local supply)- 1 Set NMT module -1no has to be supplied for the total requirement of the monitors and should be a module easily swappable between all the monitors 48. Quality Certificate: US FDA and EU CE approved (certificate to be attached to technical Bid) 49. **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
6.	**Portable digital X-ray machine**	**Portable DR – HF diagnostic X-Ray system** **1. General:** Fully integrated & light weight High Frequency Mobile Digital X Ray unit with one no. DR panel suitable for bedside x-rays, trauma, Intensive care units, Operation theatre and Radiology department, Emergency Rooms, Orthopaedic clinics, Military Camps, Pediatric clinics, Medical camps, Small Hospitals & Neonatal ICU. The unit must have following essential features: 2. The unit should be fully counterbalanced and can be positioned to suit different bed heights. The unit should have facility of vertical swing and horizontal rotation of the tube head to ensure X-Ray of any anatomy even within limited space. **3. High Voltage Generator Specifications:** a. Unit should have a High Voltage Ripple Frequency of 200 kHz or more b. Output power to X-Ray Tube 2.8kW or more c. X-Ray Tube Voltage Range: 40kV-100kV or more d. X-Ray Tube Anode Current Range: 10-60mA or more e. mAS Range: 0.32mAs to 200mAs or more

		4. X-Ray Tube Specifications: a. Anode Heat Storage 14000 Jules or more b. Focal Spot for X-ray tube should be 1.2 mm as per IEC 60336 c. Target Angle of X-Ray Tube should be 16º d. X-Ray Tube inherent Filtration-minimum should be ~0.5mm Al Equivalent **5. Collimator Specifications:** a.Focal Spot to Skin Distance(FSD) should be 200 mm b.Nominal Source to Image Distance(SID) should be 1 Meter c.X-Ray Field-Maximum(450mmX450mm) ±2% of SID d.Total X-Ray filtration should be 2.5mm Al @100kV as per IEC60601-1-3 **6. Flat panel detector specifications:** a.ScintillatorDirect deposition CSI b.Pixel area (Active image)should be 14inch * 17inch (355.6mm * 431.8mm) c.Pixel Array<=2000 x <=2000 or more d.Pixel Pitch<200um or less e.DQE >= 60% @ 1 lp/mm or more f.Grey scaleADC: >=12Bits g.Image Acquisition Time:For Exposure Window <= 2.2seconds, time taken shall be within 10 seconds of X-Ray exposure delivery. h.Exposure detection Automatic exposure detection (AED) **7. Touch panel specification:** a. Intel Quad core processor b. Operating systemWindows 10 based multiple needs operating system c. Display12" QHD (2160×1440 Pixels) resolution LCD display e.Touch screenDual Touch 10 finger capacitive multi Touchscreen with IP-55 protection f. RAM and storage8GB RAM and 256 GB Solid state drive g.InterfaceUSB 2.0, USB 3.0, LAN h. Battery: Li-ion 11.1V, 2X 1990mAh - Back up 11 hours standard with twin batteries **8. Mechanical Specifications:** a.Total Weight of System less than 125 Kg b.Vertical travel at minimum position should be 390 mm@15º±2º c.Vertical travel at maximum position should be 1900 mm@140º±5º d.Swivel angle of Tube head on horizontal arm should be 290° e.Rotation of Tube Head on horizontal arm should be 360° f. Rotation of Collimator Around X-Ray Tube Axes should be +90° to -90° **9. Input Specifications:** a.Mains Input For Battery Charger100-240VAC/50-60Hz b.Mains Current Maximum<5A c.Battery BackupWith Fully Charged Battery Unit Shall be able to deliver minimum 50(Chest)Exposures (Not repeated) as per the Exposure Table in the user Manual. **10. Environmental Specification:** a. Ingress ProtectionIP20 b. Operating Temperature Range+10C to +40C c. Operating Humidity Range +20% to +80% Non-Condensing d. Storage Temperature Range-10 to +70C e. Storage Humidity Range20% to 95% Non-Condensing **11. Certifications** a.The system should have AERB type approval. b. The system should have US FDA or European CE with four digit notified body number certificate and certificate to be submitted. c.Should have IEC and BIS approved product.

		d.Should have CDSCO Approval. e.Manufacturer should have ISO-13485 certification for quality standards. **12. Other Requirements** a.User/Technical/Maintenance manuals to be supplied in English. b. Comprehensive training for lab staff and support services till familiarity with the system.
7.	**High frequency ventilator**	1. Advance technology, external compressor based, Microprocessor controlled ICU ventilator suitable for ventilating patients from Preterm baby to infant. 2. All the material/equipment should be US FDA Certified & European CE certified. 3. All the electronic equipment should comply with Electrical Safety conforms to standards for electrical safety conforms to standards for electrical safety IEC 60601-1. 4. All the equipment's power input should be 220- 240 V, 50 Hz. 5. General Requirements 6. User interface should be TFT – LCD 15" touch screen, showing all the set ventilator and patient parameters, scalars, loops, lung mechanics etc. The colour touch screen should have the facility for tilt & rotate for better viewing. 7. Graphic display to have automatic scaling facility for waveforms. 8. Status indicator for Ventilator mode, Battery life, patient data, alarm settings, clock. Should have different views for waveforms, loops view, distance view, family view and lung visualization view to adjust with the ICU workflows 9. Display can show 5 waveforms& 2-3Loops, monitored and set parameters simultaneously. Facility to save reference loop. 10. It should display 72 hours trend. Should have facility to take screenshots and screen recording with easy export via USB. 11. Check for compliance & Leakage compensation for patient circuit **12. Should have the following modes:** 13. volume controlled/ assist mode 14. pressure controlled/ assist mode 15. Pressure regulated volume controlled 16. SIMV Pressure Controlled with pressure support 17. SIMV PRVC with Pressure Support 18. SIMV Volume Controlled with pressure support 19. Pressure Support/ CPAP 20. Non Invasive ventilation with leakage compensation. 21. nCPAP as separate mode 22. Bi-VENT/APRV 23. Volume support as separate mode 24. Should have HFOV(high frequency ventilation) ventilation & HFOV (V TGT) (Volume Target) should be quoted as optinal 25. High flow Oxygen therapy should be quoted as optional. 26. Ventilator should have visualization tool for real time monitoring of volume and drive/ pleateau pressure in relation to set targets (target tidal volume and target drive pressure in invasive modes. The visualization changes in terms of color helps in detecting changes in lung volumes and optimal adjustments of settings. 27. Should be upgradable to automated algorithm-driven ventilation mode that enable ventilation from the start of care (full control ventilation) to weaning. Mode should offer safe transition from controlled mode (VCV, PCV, PRVC) to supported mode (PS, Volume support). 28. Should be upgradable to assist ventilation on breath to breath basis according to the electrical activity generated by the diaphragm. **29.** Following **settings**. 30. Tidal volume 2ml- 350 ml

		31. Should have bias Flow of : 0.5l/min 32. Mandatory respiratory rate 5-150 breaths per minute 33. Inspiratory time 0.1-5 Seconds 34. HFO parameters : P mean (cmH2O) – 5-40, P amp (cmH2O) – 0-100, Tidal Volume (ml) 0.2-40 , I:E Ratio (HDOV) 1:1,1:2, 1:3 Frequency (Hz)- 5-20. 35. Rise time 0 to 0.2 Sec 36. SIMV rate 5 to 60 breaths/min 37. PEEP 0 to 50 cm H20 38. PS/PC above PEEP 0 to 60 cm H20 39. FiO2 21 to 100% 40. End expiration (% of peak flow) : 1- 70 41. Triggering Flow & Pressure trigger must be available 42. Continuous monitoring/display of the following parameters: 43. Ppeak , Pplat , Pmean , PEEP, Pdrive, Compliance (Cstat, Cdyn), Resistance (Ri & Re), Inspiratory tidal volume, WOB, time constant, Expiratory tidal volume, MV inhaled, MV exhaled, MV spn, I:E Ratio, Inspiratory Time, RR Total, FiO2, Leakage fraction, end expiratory flow; VT/PBW, DCO2 44. Alarm volumes adjustable 45. At least 1000 episodes of alarms recordable 46. Should have the ability to calculate and display 47. Intrinsic PEEP 48. Occlusion Pressure 49. SBI 50. Time constant **51. Inspiratory & Expiratory hold** 52. Should have audio and visual alarms for the following conditions: - Apnea - High/low airway pressure - High/low respiratory rate - High/low minute volume - Low battery - Equipment malfunctioning - Power switch from AC to DC - Low battery - Alarm limits should be adjustable - Should have a temporary mute function (for at least 2 minutes) - Alarms should have different audiovisual codes based on priority 53. Should have integrated nebulizer, which should be synchronized with inspiration. It should be based on vibrating mesh technology with capability of delivering less than 3 micron particle size. 54. Should be provided with servo controlled humidifier with all necessary accessories 55. Should have battery backup of minimum 60 minutes 56. RS 232 Interface for communications with networked devices. 57. Automatic pre-& post-oxygenation and stand-by function for suctioning with adjustable Fi02. 58. Should be supplied with permanent O2 cell or company will replace free of cost during the warranty and CMC period 59. Expiratory valve/cassette should be single piece autocleavable and no routine calibration required. It should be interchangeable with same make units. 60. It should have proximal flow sensor monitoring for accurate measurement of small volumes. 61. The Ventilator and the external compressor should be US FDA approved. 62. The Ventilator unit & the external compressor should be from the same manufacturer. OEM will not be acceptable.

		63. Should have communication ports such as RS 232 port, USB port and VGA port 64. Upgradable option- Inbuilt mainstream EtCO2 Capnography, (should be displayed on ventilation screen) price to be quoted as optional **65. System Configuration Accessories, spares and consumables** 66. Proximal flow sensor – 10 nos. disposable per ventilator/ 1 no. reusable 67. Accessories for Nasal – CPAP - 10 sets 68. Permanent Oxygen sensors preferably. If not permanent the supplier should ensure continuous supply of O2 call free of cost throughout the warrantee & CMC period of the equipment. 69. External Medical Air Compressor of the same make. It should be USFDA and European CE (Conformity Europeans) certified Cart/Trolley and hinged Arm of the same make. 70. **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
8.	**Pulse Oximeter monitor**	**Technical Specifications of Pulse Oximeter with NIBP** 1. **The pulse oximeter** should be a medical device that indirectly measures the amount of oxygen in a patient's blood (as opposed to measuring oxygen saturation directly through a blood sample) and changes in blood volume in the skin, producing a photo plethysmograph. **a. Technical Specification:** **b. Operational Requirements:** 2. Pulse Oximeter should be suitable for all types of Patients: Adult, Pediatric and Neonate **a. Display Requirements:** 3. LCD Colour Display with Adjustable Brightness 4. Touchscreen 5. Parameters- Numerical Display of Spo2, Pulse Rate, Perfusion Index 6. Variable Pleth Waveform 7. Trend display up to 96 hours at 2 seconds sampling rate 8. Access to Menu and user settings for configuring and managing alarms **a. NIBP (Adult, Pediatric, Neonatal)** 9. Systolic- 40-260 mmHg, 40-230 mmHg, 40-130 mmHg 10. Diastolic- 26-220 mmHg, 26-183 mmHg, 26-110 mmHg 11. MAP- 20-200 mmHg, 20-160 mmHg, 20-100 mmHg **a. Display Range:** 12. Oxygen Saturation (SpO2)- 0 – 100% 13. Pulse Rate (PR) - 25-240bpm 14. Perfusion Index (PI) - 0.02-20% **a. NIBP (Adult, Pediatric, Neonatal)** 15. Systolic- 40-260 mmHg, 40-230 mmHg, 40-130 mmHg 16. Diastolic- 26-220 mmHg, 26-183 mmHg, 26-110 mmHg 17. MAP- 20-200 mmHg, 20-160 mmHg, 20-100 mmHg 18. Motion Tolerant NIBP **a. Saturation Accuracy:** **19. Saturation Range: 60% to 80%** 20. **Accuracy when there is no Motion** : Adults/ Infants/Pediatrics: 3% **21. Saturation Range: 70% to 100%** 22. **Accuracy when there is no Motion:** Adults/Infants/Pediatrics: 2% Neonates: 3% **23. Accuracy when there is Motion:**Adults/Infants/Pediatrics/Neonates: 3%

24. **Accuracy when there is Low Perfusion:** Adults/ Infants/Pediatrics/Neonates: 2%

a. Pulse Rate Accuracy:

25. Pulse Rate Range: 25 - 240 bpm

26. Accuracy when there is no Motion:Adults/ Infants/Pediatrics/Neonates: 3 bpm
27. Accuracy when there is Motion: Adults/ Infants/Pediatrics/Neonates: 5 bpm
28. Accuracy when there is Low Perfusion: Adults/ Infants/Pediatrics/Neonates: 3 bpm

a. SpO2 Modes & Sensitivity:

29. Averaging modes: 2, 4, 8, 10, 12, 14 or 16 seconds
30. Sensitivity: APOD, Normal and Max

a. Technical Requirements:

31. Should have Signal Extraction Technology
32. Start-up time – Less than 60 Seconds* - Resuscitation Recommendations
33. Should generate audible pulse tone during motion and low perfusion
34. Should display SpO2, Pulse Rate and perfusion Index readings during motion and low perfusion
35. Should have provision for Desaturation Index and 3D alarms
36. Should be future upgradeable to non-invasive continuous Hemoglobin (SpHb)
37. Should be future upgradeable to non-invasive Methemoglobin (SpMet)

a. Alarms

38. Audible and visual alarms for High/Low SpO2, High/Low Pulse Rate, High/Low PVI, Probe off, cable disconnects and low battery

a. Battery Requirements:

39. Rechargeable Batteries
40. Capacity minimum 7 hours

a. Physical Characteristics:

41. Pulse Oximeter weight should be less than 2 kg

a. Environmental Requirements:

42. Operating Temperature: 0-35°C
43. Operating Humidity: 10-95%
44. Atmospheric Pressure: 540-1,060 mBar

a. Regulatory Requirements:

45. Manufacturer/Supplier should have ISO certification for quality standards. Certificate copy must be submitted with offer.

a. Compliance Requirements

46. Safety Standards: ANSI/AAMI ES 60601-1, CAN/CSA C22.2
47. No. 60601-1, IEC/EN 60601-1, 3rd Ed.
48. Pulse Oximeter Standards: ISO 80601-2-61
49. Alarm Standards: IEC 60601-1-8
50. EMC Standards: EN 60601-1-2, Class B
51. Degree of Protection: Type BF, Defib Proof- Applied Par

a. Accessories Should be Included as Standard:

52. Adult Reusable SPO_2Sensor, length 3 ft – 01 pc/unit

		53. Neonatal Multisite Reusable SPO_2 sensor, length 3 ft – 01 pc/unit a. **Certification:** Should be valid US FDA and EU CE certified product. Certificate copy must be submitted with offer. 54. **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
9.	**Vital Sign Monitor**	**Technical Specifications-** 1. Monitor should be Modular design and flexible monitoring in compact and portable 2. Monitor should be capable for monitoring ECG, SPO2, RESP, 2XTEMP, 3. Monitor should be ready to upgrade EtCO2, AGM, Entropy/BIS, NMT and Cardiac output in future by just adding the Module 4. Screen Size minimum 12 inches color Capacitive Touchscreen display or remote control and highly visible alarm light 5. Monitor should display up to 12 waveforms at a time individually 6. Monitor should have 7 optimized user modes, Standard Adult, Paed& Neonate mode with Signal Extraction Technology (SET) and configurable for different care areas 7. Monitor should have different screen layout to view big font size in numeric and waveforms 8. Monitor should have trending facility for up to 168 hours of both Graphical & Numerical 9. Should have Snapshots facility up to 200 - Manual or alarm triggered 10. Monitor should have facility for National Early Warning score which helps the clinicians to know the patient's condition better 11. Minimum Battery back – up to 4 hours 12. Connectivity to Central stations should be standard thru Wifi or thru LAN 13. Monitor should be capable to monitoring 12 lead ECG by connecting 10 lead wire 14. Monitor should have Simultaneous four-lead analysis which helps optimize the detection and analysis of arrhythmias, helping ensure no cardiac event goes unnoticed. The algorithm helps distinguish noise and artifacts from true beats, reduces false alarms, and enables uninterrupted ECG monitoring even in the event of a single electrode failure. 15. Monitor should have smart lead fail detection to monitoring ECG uninterrupted 16. Should have ST segment Analysis with ST Trend for Adult, Paed and Neonates patient 17. Monitor should have Full Arrythmia detection for Adult, Paed and Neonates including Atrial Fibrillation detection 18. NIBP technology utilizing "smart cuff" pressure control to improve measurement time, patient comfort, and artifact rejection 19. SpO2 should have ability to reject motion artifacts and detection even at low perfusion, Display plethysmography and perfusion index number and SPO2 value. Masimo SpO2 technology needs to be provided with neonatal accessories 20. Monitor should be able to measure PPV and SPV parameters simultaneouslyfor guiding fluid therapy for patient 21. Monitor should be capable for Bed-to- Bed View connectivity thru LAN and should be able to connect 1023 beds 22. Bed-to-Bed View window data should display - 6 waveforms and numeric with remote alarms 23. Monitor should be able export trend data thru USB with password protected 24. Demo Mode should be available as standard 25. Monitor should have option to upgrade modular 3-Channel recorder which can be interchanged between the monitors for print – to be quoted as optional 26. Basic Patient side module for Measuring Parameters like ECG, NIBP, SPO2, RESP,2XTEMP,2XIBP 27. Field Upgradable to AGM, EtCO2, Entropy/BIS, NMT and Cardiac Output by just adding a module and connecting cable 28. Monitor should have full disclosure feature for up to 72 hours for all parameters waveforms. 29. Monitor Should be HL7 Compliant which connects to EMR direct 30. Cardiac output monitoring should be thermodilution method by adding the module (Extra Module future upgradeable) 31. Cardiac output module should have one IBP port inside the module to monitoring 3rd IBP (Extra Module future upgradeable) 32. Monitor should have capable to monitoring NMT by inserting the module inside the monitor 33. NMT monitoring should have TOF, DBS, ST and PTC mode of stimulation and Supermax Current and recovery note block alarms (Extra Module future upgradeable)

		34. Monitor should be capable to monitoring Entropy/BIS by inserting the modules (Extra Module future upgradeable) 35. Monitor should be capable to Monitoring the Anesthesia gas monitoring by inserting the modules (Extra Module future upgradeable) 36. AGM should be compact and modular in nature and measured a 5 kind of auto identify anesthetic agent and even mixture of 2 agent with MAC value (Extra Module future upgradeable) 37. AGM should be display both inspired and expired value following gases- CO2, O2, N2O and anesthetic gas agent and balance gas (Extra Module future upgradeable) 38. ETCO2 Module should be side-stream measurement method and easily swappable between the monitor and display and should be able to monitor 39. EtCO2 monitoring should display - waveforms and numeric value as EtCO2, FiCO2 , FiO2, EtO2 parameters (Extra Module future upgradeable)and RR (Extra Module future upgradeable) 40. Upgradable modules should be interchangeable freely within all Monitors 41. Standard Certifications –FDA and CE Approved 42. All modules / parameters asked as future upgradeable should be quoted seperately 43. The monitor should be able to withstand any accidental drops **44. Scope of supply for each monitor:** a. 3 lead ECG Cable – 1no. & b. Disposable 3 Leads wire set for neonates–50 sets/box c. Masimo SpO2 extension cable – 1no d. Masimo SpO2 Sensor Neonatal Reusable– 1 No e. NIBP Hose Neonatal - 1 No f. NIBP cuff Neonatal(size 1,2,3,4,5) – 1box (each size 4nos) g. Dual Temp rectal and skin Probe- 1 each h. Wall Mount-(local supply)- 1 Set 45. Quality Certificate: US FDA and EU CE approved (certificate to be attached to technical Bid) 46. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**.
10.	**24 hour Pediatric Holter machine**	Specification of Holter Analysis and review system 1. Holter system provides for 24/48 hours and up to 7 days continuous ECG recording and anlysing for detecting heart function abnormalities which may otherwise go undetected. The system should support 3 channel and 12 channel recorders. 2. Should be able to record 24/48 hours of ECG waveforms on small Holter Recorders 3. Should automatically detect and quantify different ventricular and supraventricular events, including atrial events (atrial fibrillation, isolated prematures, pairs, bigeminy, trigeminy, runs, pauses, bradycardia and tachycardia) and ventricular events (isolated ectopics, premature ectopics, bigeminy, trigeminy, couplets, triplets, and runs). 4. Should provide Heart rate variability on time and frequency domain 5. Should provide unlimited normal, abnormal, and artifact templates with automatic classification, template matching and ability to merge \ unmerge on any template. 6. Should have the provision for patient diary entries. 7. Should provide advanced Pacemaker analysis and quantify Exit Block, undersensing, fusion, oversensing, Atrial Stimulation, Ventricular stimulation, AV-sequential stimulation 8. Should provide advance QT analysis, ability to perfom QT analysis on avg of 3-beats/ 5-beats/7 beats/9 beats/11 beats/ 21-beats/ 31 beats/ 61 beats etc., and export the entire QT values and respective QTc values of all 3 channels to excel file. Should also support the maual editing of the measurements on the waveforms. 9. Should create custom reports templates with institution's logo 10. Trend Graphs -HR, RR interval, ST etc 11. Should have the Risk assessment tools T-wave alternans and Heart Rate Turbulence 12. The system should be desktop/Laptop based with windows operating system, with Color 17" TFT monitor. 13. Application should be able to convet the results to PDF and store on the PC. 14. The Holter system should be FDA approved

		15. System should support 7days of recording with 3 channel recorder and 2 days of 12 channel recordings 16. System should work on Win 7/Win8/Win 10 Operating systems 17. **Recorder Specifications :3 channel---** 18. Should weigh no more than 50 grams without battery. should have bluetooth connectivity to view the live ECG in PC 19. Should acquire simultaneous ECG using 7-lead patient cable for 3 channel data. 20. Should automatically remove pacing artifacts and annotates the recording with pacing pulses. 21. Should Store 24 or 48 hours or 7 days of ECGS with no data compression. 22. Use single AAA alkaline battery for recording. 23. should have sampling rate of minimum 256 SPS 24. **BOQ-Holter** 25. PC, printer-1no 26. Holter application-1no 27. 3 channel recorders-1no 28. **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
11.	**24 Hour Ambulatory BP Monitoring Machine**	1. The Ambulatory Blood Pressure (ABP) application should provide a software solution for monitoring BP over extended periods of time 2. Should be easy to program and to set up, the module should provide comprehensive blood pressure data in textual and graphical displays with user-definable settings. 3. Must have inflation technology and deflation technology, both A. BP readings can be programmed at specific intervals or at random times B. Should be Compact lightweight design, integrated low-noise pump and adjustable inflation pressure make it comfortable for patients 4. Should provide dipping status 5. should provide Morning BP Surge, Ambulatory Arterial Stiffness Index (AASI), Hyperbaric index (HBI) a. Should connect to PC for quick download of recorded data b. Should have flexible reporting capabilities that should allow physicians to review reports in multiple formats. 6. Monitoring should be quiet (pump operation should be less than or equal to 40dB) 7. Measuring range should be 8. Systolic pressure: 60–260 mmHg 9. Diastolic pressure: 40–220 mmHg 10. Mean pressure: 50–250 mmHg 11. Heart rate (HR): 35–240 beats per minute 12. Acquisition period should be Up to 400 measurements or 3 days 13. Battery 2 size AA NiMH rechargeable batteries, 1.2 V ≥ 1500 mAh 14. Battery charger Universal battery charger: 15. Should not weigh more than 200 g with rechargeable batteries 16. Should be BIHS, ESH, ANSI, AAMI, CE and FDA approved. 17. Branded PC-Windows 10/11, with 8GB RAM, 500GB HDD-1no 18. B&W Printer or HP-1no 19. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**.
12.	**Donor Human Milk Bank**	**The Equipment (DHMB) will consist of Following:** 1. Fully automatic Human milk Pasteurizer (Capacity 200 ml to 3000 ml) 2. Milk thawing machine with Temperature setting & display. 3. Deep Freezer (-20 degree Celsius) 300 litre capacity 4. Refrigerator 290 litre capacity 5. Air Sterilizer 6. Electric Breast milk pump 02 nos. 7. Table & Chair for lactation consultant & mother 8. Chair for mother in isolation room 9. Hot Plate for boiling water to clean milk containers 10. Loose utensils like vessels, tong and plastic trays.

		11. Fabricated stand along with wash basin. 12. Air Conditioner 2.0 Ton capacity with stabilizer 13. Wheel Chair. 14. Provision of Aluminium partition for lactation room & Lactation consultant room. 15. Online UPS A room of 400 sq. feet is required to set up the Donor Human Milk Bank (DHMB). The room should facilitate with proper electrical connection & water inlet & outlet. **Specification of Automatic Human Milk Pasteurizer (10 ml to 500 ml)** 1. Should be microprocessor based servo control mechanism 2. Should have alarms for milk temperature at 25 degree Celsius , 10 degree Celsius & 4 degree Celsius during COOL Process. 3. Operating voltage : 230 volts AC +/- 10% , 50 Hz ➢ Wattage : 700 4. Method of Pasteurization : Holder Method 5. Should be Portable, mounted on wheels 6. Milk Pasteurization capacity should be 10 ml to 500 ml 7. Time for one pasteurization cycle should not be more than 80 min per cycle. 8. Water required for one pasteurization cycle should not be more than 5 litres 9. Water used for pasteurization should be reused. 10. Time taken for cooling from 63 o C to 4 o C should not more than 30 mins. 11. Sensor should be provided to measure milk temperature 12. Sensor should be Provided to measure the water temp in the pasteurization tray. 13. Should provide the digital display of milk temp & elapsed time 14. Noise level should be less than 50 dB 15. Bottle used for pasteurization should made of medical grade stainless steel 16. The system should have the facility of auto drain after the cycle is completed. 17. The equipment can be used continuously 24x7x365 days ➢ Equipment should be CE Certified. **Specification of Milk thawing machine with Temperature Controller:** 1. Should be able to maintain the temperature from 24 oC & 37.5 oC. Accuracy of temperature control should be +/- 0.2 deg C 2. Should have rack holder to 3 racks & Should be able to thaw 8-12 bottles. 3. Should have forced air circulation for uniformity of temperature. 4. Should have a temperature sensor & should provide Auto Cut off if temp exceeds 37.5 o C, along with an audio visual alarm. 5. The front door should be transparent for observation. 6. An observation lamp must be illuminated when the front door is opened. 7. It should have a Ceramic heater to warm the circulating Air. 8. Integrated control panel--- Digital temperature indicator cum controller 9. Should be supplied with variable temperature control, safety alarm system for over temperature limits. Temp setting should be done by feather touch keys. 10. Manufacturer should be ISO 13485:2003 & ISO 9001: 2008 approved 11. It should be operational on 220 to 240 volts at 50 Hz, single phase AC 12. It should be mounted on trolley for easy mobility.
13.	**Fiber Optic Pad LED Phototherapy**	Specification of Fiber Optic Pad LED Phototherapy 1. It should be LED based phototherapy system with Fiber optic based technology for treatment jaundice . 2. The Irradiance level in the Pad should be between 40 – 70 microwatt per sq cm per nm

		3. It should create light between 430 – 490 nm with peak of 440-460 nm matching the peak absorption wavelength at which bilirubin is broken down . 4. It should have Fiber optic Light Pads as below 5. Size A 15 X 30 cm (light emitting area) 6. Size B 25 X 30 cm (light emitting area) 7. It should have LED module life of more than 8000 hours 8. It should comply IEC safety standards 9. It should weight less than 5 kg 10. It should be X Ray compatible 11. It should have noise level of less than 44 Db at 1 meter 12. It should have European CE and US FDA 510K certifications. 13. Scope of supply: a. LED Lamp box with in built control unit – 1 No b. Large size fiber optic pad – 1 No c. Disposable baby nests – 15 Nos Large Size 14. **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
14.	**Neonatal Incubator**	**Main features** a) It should be microprocessor controlled unit. b) It is intended to be used in NICU for dual purposes (Incubator & warmer). c) It should have both air and skin temperature control facility. d) Skin temperature probe should have a length of at least 150cm for KMC. e) It should have integrated servo-controlled humidity facility (30% to 90%) f) Volume of hood should be more than 150 cm^3 excluding mattress tray. g) Height from mattress up to top of the hood should be more than 16 inches. h) Floor to mattress height should be adjusted between 30" to 45". i) It should have a hole at top for access to feeding tube. j) It should have access panel on all sides k) It should be lined with double side walls. l) It should have at least four access doors with at least 4 tubing's grommets. m) It should have iris ports. n) Noise level inside the hood :< 50 dBA. o) Mattress tilt angle: 12° (±1) continuously variable p) Mattress tilting facility control should be available from outside q) It should be supplied with radio translucence mattress. r) Mattress size at least: 15" X 28". s) It should have integrated weighing scale t) It should have integrated weighing scale u) Accuracy of weighing scale: ±10 gm v) Resolution of weight range: ± 5 gm w) Range (weighing scale): 400g -5000 g. x) Trolley should have at least 4 castors with friction brake. y) It should have integrated storage space. z) It should have IV pole attachment facility. ✓ It should have illumination light for helping in performance of procedures. ✓ It should have servo controlled oxygen delivery system (oxygen sensor- life time) **Display:** a) It should have a colour LCD display b) LCD display brightness adjustment facility is available in at least 3 levels. c) It should display temperature (Skin and air), humidity, alarms and weight

Data trending facility:

It should have integrated 24 hour trend display with the following features:

a) Real time data trending of air temperature.
b) Real time data trending of skin temperature (two).
c) Real time data trending of heater power in %.
d) Real time data trending of humidity.
e) Data trending of weight for 7 days.

Air temperature control with following features:

a) Should have visual display for air temperature control.
b) Air mode control temperature range: 20^{O} C - 37^{O} C.
c) Adjustment of desired temperature value in steps of ± 0.1^{O} C
d) Drop of air temperature after 10 min opened one side panel: <2^{O}C
e) Air display drop after opening the main access panel for 10 min:1^{O}C

Skin temperature control with following features:

a) Should have facility for two skin temperature probe connections.
b) Monitoring of central and peripheral temperatures.
c) Air mode control temperature range:20°C to 37°C (±0.1°C)
d) Skin mode control temperature range: 34°C -37°C (±0.1°C)
e) Temperature rise time at 22°C ambient (12°C) : <40 min.
f) Air flow velocity across mattress at 10 cm above mattress: <10 cm/sec.
g) Temperature variability: <0.5°C.
h) Visual display should indicate that skin-temperature control in on.
i) Heating automatically switched off in the event of sensor failure.
j) Heating automatically switched off in the event of sensor disconnection

Operating as Radiant warmer:

a) The same incubator can be used as Radiant warmer.
b) It should have two control modes: manual & servo.
c) Heating element: Calrod/ceramic/quartz
d) Must have two control modes: servo/manual
e) Heater output: to be increased in steps of 5%

Servo control of relative air humanity:

a) It must have integrated servo humidity control
b) Should have integrated humidity sensor.
c) Humidity control operating time without refilling at 36°C (air) at 85% RH: 24 hours.
d) Water container can be made sterile.
e) Humidity control range of relative air humidity from 30% to 95%.
f) Adjustment of relative air humidity in increments of ± 1%
g) Accuracy of humidity control: ± 6% (10% to 90 % at 20°C to 40°C)
h) Humidity control reservoir capacity: at least 1000 ml.
i) Stabilization of the relative humidity response to a 10 min open 2 ports.

Alarms:

a) Baby hot /high temperature- once skin temperature is >0.5°C higher than set temperature
b) Baby cold/ low temperature – once skin temperature is>0.5°C lower than set temperature
c) Heater failure: malfunction of radiant heater.
d) Probe failure: malfunction of either skin or air probes.
e) Air temperature: >38°C

		f) Skin temperature: > 37.5°C g) Disconnected skin probe h) Fan failure i) Power failure j) System failure k) Humidity failure l) Humidity probe failure m) Weighing scale failure **Cleaning** a) Access door gaskets and tubing should be made accessible for applying disinfectant b) Inner wall should be accessible to apply wipe disinfection c) Humidity reservoir should be autoclavable at 121°C d) Inner surface of hood, sensor module, walls are accessible to use disinfectant. **Power** a) Power requirement:220-240 VAC @ 5 amps, 50-60 Hz b) Power cord: should not be less than 3 metre in length and to be fitted with Indian plug. **Environmental conditions** a) Operating temperature: 20°C to 40°C b) Humidity: 15% -95% RH c) Storage temperature: 10°C to 40°C d) Operating humidity: 15% to 90% RH e) Storage humidity: 15% to 90% **Standards, Safety and training** a) Certified to be complaint with ANS/IEC60601.0.12-01 Medical Electrical Equipment –Part 2-12. b) Should meet IEC 529 Level 3 (IP3X) (spraying water) for enclosure protection, water ingress. c) Reusable skin probe d) Reusable air probe e) Tubing port f) Ventilator tube holder g) Soft bed/ Mattress h) Reusable cover/ positioner i) Fresh air filter j) Humidifier reservoir k) Heat reflecting patch for probe **The equipment should be USFDA &CE approved** **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
15.	**Transcutaneous Bilirubinometer**	1. Measuring method should measure the optical density difference at two wavelengths to determine the yellowness of the subcutaneous tissue. 2. The instrument should be suitable for non-invasive bilirubin measurement of neonates with gestational age 27 – 42 weeks and 1 month post-natal age; body weight 900 grams to 4000 grams. 3. Measurement range: 0.0mg/dL to 20mg/dL or 0 µmol/L to 340µmol/L 4. Error of estimate (SEE): ± 1.5mg/dL or ± 25.5µmol/L 5. It should measure readings at sternum and forehead. 6. No hidden cost of disposable should be required/reusable tip. 7. Should have alarms when measurements are greater than 20mg/dl or 340µmol/L 8. Can be used in all skin colors, >35 weeks gestational age, pre-phototherapy.

		9. Light source should be Pulse xenon arc lamp 10. Light source should have life of more than 10000 measurements. 11. Light source checker should be built in to the charger base. 12. Should have detectors with Silicon photodiodes. 13. Should have Ni-MH battery as power source. 14. Protection type and level Internally-powered instrument, BF type 15. It should measure at least 400 single measurements when fully charged. 16. It should have operating temperature range from 100 C to 400 C 17. It should be light weight; less than 250 g. 18. It should be supplied with: Charger unit with a checker, AC adapter, Carrying case and wrist strap, Power cable adapter set. 19. USFDA &European CE approved 20. **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
16.	**High Flow Nasal cannula therapy device**	1. Suitable for treatment of Hypoxemic patients with respiratory distress. 2. Suitable for use in ICU, wards, emergency department and home oxygen therapy. 3. One system for treating Infants, Paediatric and Adult patients. 4. Inbuilt flow generator capable of delivering wide range of flows: 2- 70 litres in Neonatal, Paediatric & Adult 5. Inbuilt Air/O2 blending and FiO2 monitoring. Facility to deliver wide range of oxygen concentrations (FiO2) from 21 to 100%. 6. Inbuilt heated humidifier. 7. Colour display more than 4" touch screen to monitor humidity setting, flow, FiO2 and faults. FIO2 should be titrated directly from device. 8. Visual and audible alarm indication for: Tubes disconnect Leaks, tube blockages, and Water out and hard ware fault with error codes. Audible power failure alarm 9. Disinfection mode with heated disinfection tube for Sterilization of the device after patient use. 10. Each machine should be supplied with 10 units of disposable Air Spiral Technology Circuit with Humidifier Chamber and compatible with vibrating mesh nebulizers. The Price must be freeze for min 5 years and to be quoted separately. 11. Each machine should be supplied with 20 units of HFNC cannula assorted sizes. The Price should be freeze for min 5 years and to be quoted separately. 12. Compatible for use on tracheotomy patients Optional. 13. The machine should have integrated and battery backup of more than 30 minutes or more with Lithium Ion (Li-Ion) battery with output power of 80W or more. 14. The device should have dual-input manifold to ensure a smooth transition to portable oxygen for patient transfer. Should have dual-input manifold to ensure a smooth transition to portable oxygen for patient transfer. 15. The machine should have the option for future upgradable to Pulse Oximeter. 16. USFDA and European CE approved. 17. Compliant with international safety standards and regulations. 18. Company owned Service centre in India. 19. **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
17.	**Infant weighing scale**	1. It should be a digital electronic scale. 2. Should have capacity weighing range of 0-20 kg with an accuracy of ± 5 gm 3. Weighing unit: Standard display in grams. 4. Pan size: 630 x 300 mm ± 25 mm 5. Pan material: Fibre resistant plastic (pupe coated) 6. Display: Bright LED or LCD display for easy viewing. 7. Should have functions TARE, Auto-HOLD and Automatic switch-off
18.	**ABG Analyzer/**	Sample Type Blood, plasma Urine

	Blood gas analyzer	Quantifying parameters	Sodium, Chloride, Potassium, Calcium, Bicarbonate, Creatinine, lactate , ammonia, CO_2, O_2, anion gap, glucose, Hb
		Sample Size	Variable
		Sample Application	syringe, sample cup, collection tube, capillary
		Analysis Time	50 seconds
		Sample Rate	60 samples/hour
		Calibration	fully automatic
		Data Management	quality control storage: 3 levels, 3 months, showing mean, SD and CV
		Correlation Factors	user programmable for sample types: blood, urine, dialysate types
		Normal Values	flagging of abnormal results; user programmable ranges
		Standby Mode	user or automatically controlled
		Diagnostic Program	user-controlled diagnostics with easy to understand messages
		Electronics	microprocessor controlled; memory for last 40 error messages
		Display	dot matrix, 2 lines
		Printout	built-in, thermal roll printer; 16 characters wide
		Languages	on-board; English
		Computer Interface	Latest version
		Power Requirements	110 - 240 V, 50/60 Hz (self-adjusting), with back up
		Data Link	Interface to COMPACT 2 and 3 Blood Gas Analyzer
		Relative Humidity	5 %- 95%, non-condensing
		Weight	Up 10 Kgs (22lbs) approx.
		Dimensions	(12-16 × 10-15 × 11-16 in)
		Approvals	CSA/USFDA& CE
19.	**Neonatal Whole Body Cooling Unit/ Neonatal Hypothermia Unit**	1. Micro-processor based servo-controlled neonatal whole body cooling-warming system 2. Should be able to cool body up to 30oC. 3. Ability to re-warm body to normal temperature at a user selected rate 4. Should work for a neonate weighing up to 5 kg 5. Should monitor esophageal or rectal temperature and use that for servo control 6. Continuous display of set temperature, measured temperature of esophagus or rectum, measured temperature of skin, measured temperature of mattress 7. Alarms for high and low temperature if deviation from target temperature >10 C, electricity failure and system failure 8. System should be mounted on a sturdy compact trolley with castor wheels and brakes	

		9. Ability to transfer data to portable media/computer. If any software or cables needed for this, they should be supplied 10. Memory of set and measured parameters for at least 96 h 11. If the system needs fluid for cooling, the fluid should be safe for baby's skin and its composition should be provided 12. Essential accessories to be provided: i. Reusable rectal/esophageal temperature probes: ii. Reusable skin temperature probes: iii. Reusable wrap around mattress for neonate: iv. Mattress repair kit: 2 13. Display 6.5" LCD Color display 14. **Operating parameters** - Automatic treatment by program - Set to constant rectal temperature - Control to constant mattress temperature a) Adjustable Range of setpoint treatment temperature: Mattress +12°C + 39°C b) Cooling time of the mattress temperature from 20°C to 12°C: 10 Minutes c) Temperature stability: < 0.3°C d) Maximum pressure in the system: 0.5 bar e) Flow: Approx. 500 ml/min (depending on mattress size) **15. Alarm system/patient safety** a) Alarm types: Optical (flashing LED) and acoustic alarms b) Sound pressure level alarm power failure: Approx. 63 dB (A) c) Sound pressure level other alarms (system error, low fill level, temperature error, flow rate error): Approx. 57 dB (A) d) Lower temperature alarm limit: +10°C e) Upper temperature alarm limit: +41°C **16. Electrical characteristics** a) Electrical connection (rated voltage): 100-130 V and 200-240 V, 50-60 Hz b) Max. power consumption: 350 W c) Fuses (2 pieces): d) Ground leakage current: < 400µA e) Permissible power cord: Max. 2.5 m long, connection to protective contact plug The equipment should be USFDA &CE approved 17. **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
20.	**Bubble C-PAP**	1. Suitable for treating newborns with respiratory distress weighing 500gms to 5000gms. 2. CPAP pressure with oscillations should be generated by creating resistance in water column and bubbling of exhaled gas in the water column. 3. The system should be suitable for both CPAP and high flow nasal cannula therapy. **4. Humidifier** 5. It should have servo controlled heated humidifier with following features : a. Temperature and flow sensor with feedback mechanism. b. Monitoring temperature of gas at chamber end and near patient end additionally temperature of airway, chamber and heater plate. c. Display for temperature of saturated gas. d. Modes: intubated and mask mode. e. Humidifier should be USFDA & CE certified **6. Alarms** 7. High temperature and low temperature. 8. Water out alarm / POP off pressure adjustment. 9. Heater adaptor faulty/ disconnect. 10. Temp cum probe faulty / disconnect.

		11. Hardware faults. **12. Delivery system** 13. The patient heating circuit should have integrated spiral heated coil for uniform heating. 14. The delivery system should have Maximum Input Flow- 15L/min and maximum mean CPAP-15cmH20. 15. Humidification chamber should be auto feed with dual float system 16. Chamber Compressible volume 260- 300 ml 17. Max peak flow should be 180ltr/min. 18. CPAP Bubble generator should have adjustable probe for pressure settings 3-10 cm of H20.It should have detachable overflow container to maintain constant water level.Volume for generator ~ 500ml. 19. The system should have safety mechanism with pressure relief valveand ports for pressure and Fio2 monitoring. Pressure relief should be 17 cmh20 and above @8L. **20. Air/Oxygen Blender** 21. **Oxygen % Range**: 21 to 100% 22. **Oxygen % Accuracy**: ±3% of full scale 23. **Supply Pressure**: 30-75 psi (207-517 kPa) Air & oxygen must be within 10 psi (69 kPa) of each 24. other. 25. **Dual Integrated flow meter** .Left flow meter 0-15 lpm and right flow meter 0-3.5 lpm 26. **Alarm/Bypass Reset**: when inlet gas pressure differential is ≥6 psi (42 kPa). 27. **Alarm Intensity**: 80 dB at 1 foot **28. Interface** 29. Nasal prongs/ masks of silicon of at least five different sizes useful for babies weighing between 750-1250g, 1250-1750g, 1750-2000g, 2000-2500g. Where the resistance to flow at pressure port of nasal tubing should be 0.4 cm H20, 0.6cmH20 or 0.2cm/H20. 30. Flexible nasal tubing with glider technology from block and fixingguide with sizes ranging from 50mm to 100mm where resistance toflow should be 0.49cm/H20,0.53cm/H20, 0.55cm/H20 respectively flow of 6 lit/min. 31. Infant caps of following sizes: 17-22, 22-25, 25-29, 29-36cm Circumference. 32. Nasal cannula of preterm and term sizes. Cannula should be kink proof and have hydrocolloid based adhesive to secure on skin and facilitate kangaroo mother care. 33. Nasal masks suitable for preterm and term babies. 34. Nasal masks should be interchangeable to nasal prongs. 35. The mask should be soft and anatomically shaped. 36. It should have mobile trolley to fix Humidifier, CPAP generator and monitor and pole with castors & IV hook and mounting brackets Gas supply lines to blender. 37. All required consumable prices should be fixed for 3 years. 38. **CERTIFICATION**: The entire system including Air oxygen blender should be USFDA &CE approved. 39. **Machine specific Consumables rate to be quoted separately and fixed for 3 years.**
21.	**Amplitude EEG System**	1. Should be a system for providing monitoring of overall electro cortical back ground activity of brain by recording EEG with intuitive display option for easy interpretation of EEG waveforms. The system should have 2. System should have provision for recording 1, 2, 3 or 4 channel EEG with aEEG, Bi-parietal or cross cerebral amplitude EEG with provision for monitoring the complete EEG with 21 Channels. **3. The amplifier should have** **4. 16-bit ADC** **5. Sampling frequency of 1 KHz.** 6. Fast Impedance measurement with color indication & numeric value display. **7. Input impedance: 100 M ohms** **8. Noise < 1.5 micro volt Peak to peak** **9. Should have bandwidth of : 0.08 Hz to 300 Hz**

		10. Should be able to display numeric values for EEG amplitude-Trend & number. 11. Should have Spectral Edge Frequency – Trend & number. 12. Should have DSA & FFT Power asymmetry for easy comparison of abnormal EEG. 13. Should display alpha/delta variation. 14. Should be able to display entire recording at once using spectral display. 15. Should have trend comparison for easy interpretation 16. Should have burst suppression analysis. 17. Should have FFT power analysis. 18. Should have facility for Comparison of signals from both hemispheres. 19. Allow Amplitude integrated EEG (aEEG) both parietal and cross cerebral method 20. It should be able to display seizures (including sub clinical) and determine severity. 21. There should be provision for aEEG trend calculation by one or several derivations with averaging. 22. It should have enhanced signal display for easier diagnosis and interpretation of HIE, Seizure and burst suppression by paediatrician / nursing staff. 23. The system should have colour a EEG patterns coding with possibility to change colours. 24. Easy device control owing to the touch screen interface. 25. Should also display full EEG in real time with adjustable speed & amplitude along with processed EEG. 26. Should display Processed EEG at variable speed 0.1 to 5 pages per minute. 27. Should allow to view the underlying EEG corresponding to a event in processed waveform with just a click. 28. Should have facility to customize preferred display as per specific users to be retrieved for easy viewing. 29. Should be able to display electrode status with one click. 30. Should have keylock feature for locking user settings. 31. Should be able to support multiple users, with individualized operational settings. Preferably with Password protection for each user 32. Facility for Zoom/Magnify EEG trace, copy & paste of EEG Trends to reports and presentations. **33. <u>Should be supplied with module for monitoring SPo2, EtCo2, Pleth, HR & respiration. So that the parameters can be monitored in future by addition of sensors only.</u>** **34. <u>Should be supplied with OEM PC with quality checks done by the manufacturer to comply with medical equipment standard.</u>** 35. Should be supplied with Laser printer 36. Should be Supplied with Electrode kit consisting of a. Disposable electrodes (Set of 10) -10 nos. b. Reusable electrodes - 24 nos. c. Conductive paste (Box of 300 gms. Or more) - 02 sets d. Head Band for Neonatal Patient - 10 Nos. e. Prepping Gel (125 gms or more) - 10 Nos. 37. Should conform to international quality standard such as CE. 38. Should conform to IEC 60601-1-1 medical safety standard. 39. Should be USFDA approved product. 40. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**.
22.	**Defibrillator**	1. Defibrillator should have minimum 7 inch TFT LCD display with minimum 3 Waveforms 2. It should have Integrated paddle for both adult and pediatric patients. 3. Defib should have four modes Manual defibrillation mode, Monitor Mode, Pacing Mode, AED Mode of operation 4. Charging time to 200J should not be more than 7 seconds with fully charged battery 5. Defib should have 3/5 Lead ECG Monitoring with leads of detection 6. Pace pulses should be delivered through multifunction pads that are applied to the patient's bare chest. Machine should deliver pace pulses in either demand mode or fixed mode 7. The Li-ion battery should support • 5 Hours operating time • A minimum of 200 shocks at 200 J 8. It should not be more than 5.5 kg weight 9. System should be European CE certified

		10. System should have audio visual Alarm configurable depending for Low, Medium and High Priorities 11. Shock analysis time should be less than 10s in AED mode 12. Defib should be able to detect VF at an amp 0.2mV in AED mode 13.System should be upgradable to SPo2 anytime in future
23.	**LED Phototherapy**	1. The device should have a stable base with antistatic castors. At least two castors must have brakes. 2. The device should have height adjustment of at least 0.4m. Height adjustment shall be between 1.10 to 1.60 m 3. The device should have a continuous tilt up to 90 deg for use alongside infant warmers 4. The device should have a blue LED light source with a narrow wavelength band (preferably less than 30 nm) and centered around 458 nm for optimal treatment of Jaundice. 5. The device should deliver a minimum irradiance of 30uW/cm2/nm in its setting. 6. The device should have minimum 2 modes for a High Level and Low Level setting. 7. The device should have at a minimum have an effective surface area of 1500 cm2 to adequately cover the babies. 8. The device should have a uniformity ratio > 0.4 9. The device should have a low noise level preferably < 25dB. 10. The device should be able to operate in low & high voltage fluctuations, preferably from 120V - 240V. 11. The device should consume very low power up to 25W. 12. The device should have an in-built timer to measure the device usage. 13. The light source should have a high life preferably minimum of 50,000 hours 14. The device should be designed to cool the unit without needing an in-built fan. 15. Safety Specifications 16. The device should have an in-built safety cut-off if the temperature increases. 17. Complete unit should conform to internationally accepted quality standards and should carry the certification of the applicable product quality standard such as US FDA 510k and European CE 93/42. The supporting document in this regard should be submitted along with the bid. 18. The manufacturer should be ISO 13485 certified. (Certificate to be submitted) and product should be CE93/42 and US FDA approved. (Certificate to be submitted) 19. Other Specifications 20. Should have local service facility. The service provider should have the necessary equipment's recommended by the manufacturer to carry out preventive maintenance test as per guidelines provider in the service/maintenance manual. 21. User/Technical/maintenance manuals to be supplied in English. 22. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**.
24.	**FOT Machine (Forced oscillometry)**	**<u>Technical Specifications Forced Oscillation Technique (FOT)</u>** 1. Should measure total Respiratory Resistance and Reactance by Forced Oscillatory Technique (FOT). 2. Should be quick and simple testing by quiet breathing. Test should done in 20sec. 3. Flow Sensor should be Lilly type Pneumotach meter. 4. It should measure Airway resistance and Airway reactance 5. It should have Key parameters: R5, R20, R5-R20, X5, Fres, ALX etc. 6. Should have complete spirometry test FVC, FVL, SVC and MVV. 7. Windows-based stand-alone device with touchscreen monitor. 8. Should be graphic 3D interpretation of results. 9. Spirometer & FOT should be combine reports in single page. 10. Suitable for child to adult use. 11. Flow Range : 0 to +/- 2.6 L/s 12. Pressure range : 0 to +/- 5.00cmH2O. 13. Pressure accuracy:+/- 3.0% (at 2cmH2O/L/s). 14. Volume Accuracy: <3.0%or0.050L 15. Frequency range : 4 to 35Hz, at every 2Hz. 16. Time resolution : 0.25sec 17. Should have adjustable Support Arm System. 18. Should have real-time breathing flow information during testing. 19. Should have data display of all parameters with 3Dgraphical interface.

		20. Should have comparison with reference values- reference equation selection. 21. Should have session type selection: Pre and post bronchodilator-testing. 22. Should have meet international safety standards European CE for human applications. 23. Calibration syringe 3 L capacity. 24. The product must be approved by European CE or US FDA and as per recommendations of ATS/ERS. 25. Warranty 3years. 26. Standard supplies should include; a. Trolley b. Colour inkjet printer c. 50nos. nose clips d. Anti bacterial/viral filters with inbuilt mouth piece - 500 numbers (disposable) 27. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**.
25.	**PC Based Spirometry**	**Specification of PC based Spirometer** 1. Flow Sensor should of latest technology preferably Ultrasonic for TOTAL infection control 2. Easy to operate & Calibration free. 3. Should measures more than70 parameters including F/V loop 4. Auto Interpretation 5. Should be Indian predicted values 6. Runs from the USB port of any PC 7. Meets and Exceeds ATS/ERS Criteria 8. Bio calibration check feature. 9. Ready to use GDT interfacing possibility. 10. In-and expiratory real-time curve. 11. Should not influence of humidity, barometric pressure, contamination 12. Should be Auto QC 13. Sensor never ever in contact with sample 14. No cleaning , no maintenance 15. Extremely high accuracy for low flows(Resistance free measurements) 16. No down time 17. Should have Indian predicted values for Spirometry. 18. Life time free software up gradation. 19. Should be FDA and CE approval. 20. PFT Filters 100Nos. 21. Laptop with i5 processor, 4GB RAM, 500GB Hard drive. 22. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**.
26.	**Sweat Chloride Analysis System**	1. The equipment shall be intended for the detection of Cystic Fibrosis in neonates and adults. 2. The equipment shall work on the principle of pilocarpine iontophoresis and shall serve as an all-in-one system for sweat stimulation, collection, and analysis. 3. The sample volume required should be less than 5 µL for sweat conductivity analysis. 4. Sweat Analysis conductivity reading shall be in mmol/L(equivalent NaCl) Units and conductivity range should be between 5~180mmol/L. 5. The equipment shall ensure a CV ≤ 1% in the measurement range of 25 to 150 mmol/L (equivalent NaCl). 6. The equipment shall include lab report software and offer data export capabilities through both RS-232 serial port (9-pin D-sub) and USB Type B port. 7. The equipment shall be equipped with a 128 x 64 pixel LCD display along with an integrated keyboard for user operation. 8. The equipment shall be supplied with reusable electrodes made of stainless steel or silver/silver chloride (Ag-AgCl) material. 9. The equipment shall operate on 4 x AA alkaline batteries and has a 3V lithium coin cell battery for date and time settings. 10. The equipment shall be designed to operate within a temperature range of 15°C to 30°C. 11. The equipment shall be CE certified, FDA cleared, and manufactured in accordance with ISO 13485 quality management standards, ensuring full compliance with international medical device regulations and safety requirements. 12. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**.

27.	**Infant Warmer Imaging Device**	1. Light weight and truly portable to move for inter hospital or intra hospital transfers/transport for scans. 2. Should light weight and made of Hi-Tech composite construction. 3. Should be stock absorbing and yet contributing no interference or image artefacts to MR, CT or X-ray imaging. 4. Should be lined with shock and acoustic dampening foam inner layer. 5. Should provide excellent visibility of baby during transport and procedure. 6. Should have dual access ports for handling the baby while maintaining the temperature. 7. Should have a patient positioning vacuum mattress and quick release trolley anchor points to secure the infant inside the device. 8. Should have trans warmer infant transport mattress 9. Should be compatible with neonatal and knee sized coils from all major MRI manufacturers. 10. No requirement of electricity for warming the trans warmer. 11. No heavy batteries required for warming trans warmer. 12. Should be able to take infants up to 8 kg baby weight. 13. USFDA / CE certified 14. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**.
28.	**Infant Warmer Transport Device**	**1.** Device must be light weight and truly portable. 2. Weigh less than 10Kg without accessories. 3. Able to support an infant weighing up to 8Kg 4. Manufactured from a strong material with laminated foam interior such that can be certified that the infant would be protected when exposed to a 20g crash test in the forward and side direction and10g in the rearward direction. 5. Complete with vacuum mattress to further the comfort and safety of the infant. 6. Thermal support for the infant provided by a rechargeable battery 7. Operated thermal support mattress which will provide heating of the infant for up to 4 hours on a single charge weighing less than 1 Kg. 8. Flexible securing straps that enable the Transport device to be secured to any Hospital Stretcher, Ambulance Stretcher, Air Ambulance both fixed wing and Helicopter Stretcher or regular passenger aircraft seating. 9. No Electrical supply required. 10. No Heavy batteries required. 11. Must have Infant positioning straps to secure the infant during transport. 12. Must not contain metal parts In the vicinity of the infant which would prevent imaging of the infant while within the Transport device using Xray's or CT. 13. Device must meet all standard certifications of MDR'S in its category. 14. USFDA / CE certified 15. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**.
29.	**Portable Etco3 Monitor**	1. Main, stream Capnograph requires virtually no warm up time , with full accuracy in 15 seconds to measure end tidal carbon dioxide (ETCO2) and respiration rate (RR) 2. Small, portable capnograph - lightweight design fits in the palm of your hand for unmatched mobility and convenience during short-term EtCO2 monitoring of adult, Paediatric, and infant patients 3. Rugged, water-resistant design for reliable operation in challenging environments 4. No routine calibration required. 5. Simple, easy-to-use interface for quick set-up and one touch programming 6. Audible and visual alarm system for No Adapter, Clogged Adapter, No Breath (Apnea), Low Battery and adjustable High and Low EtCO2 alarm 7. Long battery life-upto 10 hours (Lithium) and 6 hrs (Alkaline) of normal use with two standard AAA lithium batteries. 8. Ranges CO2= 0-99 mmHg/0-9.9 kpa, RR= 3-150 bpm

		9. Accuracy ofCO2 should be 0-40mmHg; 41-99mmHg 6% of reading 10. Accuracy of RR (Respiration Rate) should be +l bpm. 11. Operating temperature should be _5 to 50oC (23 To l22oF) 12. Operating Atmospheric pressure should be 70-120 kpa. 13. Operating Humidity 10-95% non-condensing. 14. Storage temperature -30 to 7O C (22 to 158 F). 15. Storage Atmospheric Pressure 50-120 kpa. 16. Dimensions should be 2.1 x l.5x 1.5,, (5.2x3.9x3.9 cm) 17. Adapter (adult, Peadiatric, Infant). 05 Nos 18 .USFDA and CE certified 19. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**.

30.	**Real-time Flash Glucose Monitoring Sensor**	Real-time Flash Glucose Monitoring Sensor
		
		• Sensor Life – up to 15 days
		• Should be approved uses in age 2 Years and above.
		• Should be USFDA & iCGMS approved.
		  • Sensor Should be applied on back side of the upper arm
		  • Sensor Glucose Assay method –Amperometric Electrochemical Sensor
		• Sensor should be able to capture Glucose every minute when scanned
		• Sensor Glucose Assay Range – 40 to 500 mg/dl
		• Sensor Power Source must come with one Silver Oxide battery
		• Sensor memory – 8 hours (Should scan with Reader within every 8 hours to capture continuous data for 15 days)
		• Sensor System should provide Low Glucose, High Glucose and signal loss alarm
		• Sensor System should provide 7 types of reports: Logbook, Daily Graph, Average Glucose, Daily Patterns, Time in Target, Low Glucose Events & Sensor Usage
		• Operating Temperature – 10 to 45 degree
		• Sensor application and sensor pack storage temperature – 4 to 25 degree
		• Operating and Storage relative humidity – 10-90%, non-condensing
		• Sensor Water resistance – IP27: Can withstand immersion into one meter (3ft) of water up to 30 minutes. Protected against insertion of objects>12 mm diameter
		  • Each Sensor Box should contain:
		  • Sensor Pack
		  • Sensor Application
		  • Product Insert
		USFDA and CE certified
		
		Machine specific Consumables rate to be quoted separately and fixed for 3 years

31.	**High-Speed Video Microscopy (HSVM)**	It will be used to perform High Speed Video Microscopy to see frequency and pattern of cilia movements in children with suspected Primary Ciliary Dyskinesia. Quantity required: One set consist of one each (1) Inverted phase contrast microscope, (2) High speed video camera, (3) Software for video recording and analysis of cilia beat frequency and pattern,

		(4) Laptop, (5) Uninterrupted power supply (UPS) **General specifications for all components:** 1) The system should work in 5-350C temperature and relative humidity of 20-90%. 2) It should operate on 230-250 Volts and 50 Hz AC power. 3) The manufacturer should have CE (European Conformity) OR US FDA certification. 4) It should have warranty of five years and CMC for 5 years after warranty. 5) All components should be compatible with each other to function smoothly. 6) It should be supplied with all accessories to run the system at installation. 7) Necessary consumables should be provided along with system to run at least 200 tests. 8) The supplier will provide inhouse training to use the system as intended. Technical specifications for each component are as follows: **Inverted phase contrast microscope** 1) Inverted Microscope should have bright field, darkfield and phase contrast option 2) It should have binocular, 450 inclined tube, exchangeable and adjustable eyepieces with field of view (FOV) 20 with trinocular head. 3) Should have rectangular stage with universal stage holder to accommodate all types of specimens like TERASAKI etc. 4) It should have integrated C-mount/optical mount for camera attachment. 5) Microscope should be compatible with provided camera. 6) It should have infinity corrected optical system with coarse and fine focus. 7) Manual 4 or more position nose piece with 10X, 20X, 40X, and 60X (dry) objectives. 8) Illuminated light source should be a 5W or better LED with controls for brightness, aperture. 9) It should have light intensity control for brightfield and phase-contrast. 10) It should have phase contrast slider (Linear/circular) for 2 or more position. 11) It should have provision for SD card for image storing as well as ports for connecting an external HDMI display without requiring a PC 12) It should have easily removable/interchangeable condenser and low stage height. 13) It should have full metal body and heavy base for stability and have superior rust-free coating. **High speed video camera** 1) It should have USB 3 interface. 2) It should have CMOS or better technology. 3) Resolution: 1280x1024 pixels or better.

		4) Frame rate: 200 or more frames per second for full field 5) Should have C-mount for attaching to inverted microscope. 6) Should be compatible with supplied microscope, software and laptop. **Software for video recording and analysis of cilia beat frequency and pattern** 1) Provision to enter patient details (name, id no., serial no. etc) and sample details. 2) It should have designed for video analysis of cilia beat frequencies and pattern. 3) Should be compatible with inverted microscope and laptop provided. 4) The video recording screen displays a live image from the video camera continuously. 5) The operator should be able to change the settings for the video camera, and immediately view the results of the changes on the screen. 6) A live video image should be updated continuously to allow for focusing and location of active cilia. 7) There should be option so that operator can select points or regions for analysis. 8) Displays the time of video recording. 9) Analysis should be possible in previously recorded videos. 10) It should be possible to pause the video display and step forward or backward in single frame mode. The frame rate and frame number should be displayed, along with the elapsed time from the start of the test. 11) In single frame mode, there should be option to export the image in a variety of formats (at least JPG, TIFF). 12) During analysis, the operator should able to select a point, a rectangle, or a line for analysis. 13) It should be able to perform whole field analysis also. 14) Statistical quantities should be calculated for the frequencies of the selected points, including mean, standard deviation, and standard error. 15) All analysis results should automatically export to a spreadsheet compatible file (PDF and excel) for giving print reports or other analysis. 16) There should be provision to upgrade the software free of cost is new version available during warranty and CMC. 17. USFDA & CE certified **Laptop/Desktop** 1) 2.0 or more GHz intel core i5 or higher processor 2) 8 GM RAM 3) 1TB or more hard drive 4) USB3 interface 5) Windows 7 or later 6) Screen size 17 inch or more

		7) Screen resolution 1440x900 or more 8) It should be compatible with video recording software. **Uninterrupted power supply (UPS)** 1) It should provide power supply for at 1 hour for above system. 2) It should have two or more output power plugs. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**
32.	**Paed ICU bed: (ECNOMICAL)**	**Description :** 1. Framework made of Rectangular CRCA tubular steel of 16 swg thickness 2. 4 section top made up of heavy perforated CRCA MS Sheet. Upper section of bed platform has X-Ray Translucent Backrest made from laminated panel with cassette holder. 3. ICU Bed (5 function) with stepless electrical adjustment for the following Overall Size: L 2160mm × W 1010mm × H 460-750mm (Adjustable Height). Back rest tilting 0-70º, Knee rest tilting 0-35°, Trendelenburg tilting 0-12°, Reverse trendelenburg tilting 0-12° Hi / Low Function for height Adjustment. 4. Fitted with four articulated half-length tuck away side rails with lock Facility with 2 upper panels embedded with controller for both the nursing staff & patients. 5. Removable & interchangeable high quality beautiful ABS head and foot Bed ends. 6. The Foot Side Bed end comes with additional Control panel embedded to it. 7. Bed Frame is fitted with bumpers at all four corners and place for fixing accessories insertion of X-Ray cassette from either side of the bed or from Head end. 8. Bed comes with manual quick release mechanism for back section adjustment during emergency situation 9. All functions controlled with high quality Advance Linear Actuator motor system, 220 - 240 V AC, 50 Hz. 10. Bed Mounted on 125mm Dia. Noiseless Luxury castors with central Braking system. 11. Bed Deigned with Drainage hooks on two sides. 12.Comes with one S.S. Telescopic IV Rod with Provision for mounting the I.V. Rod on all corners of the bed. 13. Bed comes with 12cm thick Mattress made up of high-density foam with Anti-Microbial agent with cover which is fully Radiolucent for ease in performing portable X-Rays. 14. Finish: Well Pretreated & fully Epoxy Powder Coated Positions obtained by Controllers: Hi-Low Backrest elevation Knee rest elevation Trendelenburg Reverse Trendelenburg.

		Product should be USFDA/ CE certified
33.	**Mobile C-Arm (Fluoroscopy) Machine**	*1.Description of Functions* 1.1 A mobile C-Arm X-ray for continuous fluoroscopy, image storage and retrieval. 2. Operational Requirements 2.1 It shall operate on single phase AC power supply. 3. System Configurations 3.1 Mobile C-Arm (Fluoroscopy) X-ray, 3.2 Image Processing Unit with 2 no's large Clinical Grade display monitors (monitor size at least 19" or more) 3.3 CD/DVD/RW drive, 1 unit. Or USB connectivity 3.4 Machine should be latest model in the market. 4. Technical Specifications 4.1 X-Ray Generator: A) Should have High Frequency of at least 80 kHz to 250 kHz or more B) Generator Output should be High Frequency of at least 3.5 kW or more at (220-240 VAC Input) C) Fluoroscopic/Radiographic kV range: 40-110kV D) Fluoroscopic mA range 8 mA or more, Pulse Fluoroscopy should be 12 mA or more. E) Shall have anatomical program for easy operation. F) Radiographic mA range should be 10 - 60 mA or more with Large Focus & Radiography mAs range should be 0.5mAs - 240mAs or more G) Pulse fluoroscopy should be boosted one with Pulse rate (PPS) 2,4,6,8 or better for dose reduction 4.2 X-Ray Tube: a) It must have a Stationary Anode/Rotating Anode, b) It should have Dual Focal spot 0.6 / 1.8 mm or less c) Nominal kV Range should be 40 - 110 kV in Steps of 1 kV. d) It should have in built automatic expose control system and cooling e) It should have Anode heat Content of at least 55 kHU or more & Housing heat content of 1150 kHU or more or should have advanced cooling technology to cool the tube. f) Tube Filtration must be at least 0.5 mm Al Equivalent 4.3 Collimator: a) Motorized CAN controlled Circular Iris collimation. b) Should have Electrically operated Hard Shutter & Soft Shutter [Blades] for symmetrical rectangular collimation from 10% to 100% opening with Collimator Blade Rotation: 0 - 180° in configurable steps

		c) Should have Virtual Collimation (Alignment & adjustment of X-Ray field with image available on the display monitor 4.4 C-Arm: a) Clear space / free space should be at least 77 cm or higher b) Immersion Depth: 68 cm or more c) Angulation (C- Rotation): + 180° Min d) C-Arm Swivel + 12 degrees e) Vertical travel should be at least 45 cm (Motorized) f) Orbital movement should be -40 degree to +90 degree by maximum. g) Should have motorized CAN controlled Circular iris collimation and compensation filter. h) Must have integrated console with 10" or more Anti-glare Color touch screen display for ease of use & better usability. i) The unit should have Real time Radiation indicators and should show the dose delivered to the patient. j) Should be counter balanced C-Arm up/down for quicker positioning. k) It should have real time area dose value. l) Must have inbuilt integrated Laser Aimer for reduced radiation during centering, accurate positioning & localized indication without X-Ray exposures 4.5 Image Intensifier: a) Input field size should be 9/6/4.5 inch diameter. b) CCD Camera must have 1M pixels (1024X1024), covering capture area of 9" on the I.I Surface. c) The camera shall have High resolution 1k x 1k CCD camera d) The Digital Imaging System must have image Processing matrix at least 1K x 1K. e) It must have minimum image distortion. f) DQE should be >=65% and clearly mentioned in brochure. 4.6 TV Monitor: a) Two No's Medical / Clinical Grade monitors having Image matrix at least 1024 X 1024. b) It must be attached on the standard Trolley c) It must be High resolution and anti-glare Type or similar. d) Auto optimization of ROI should be available in single touch on Console touch panel. e) Distance and Angle measurement should be possible. Distance measurement between two points on live screen must be available for accurate distance / line measurements. f) Annotation should be possible 4.7 Imaging Modes:

		Fluoroscopy mode shall have the following facilities: a) 1. Low dose / High dose Continuous fluoroscopy with last image hold. 2. Last image hold with simultaneous display of side by side, additional three reference images with individual freeze / de-freeze facility with an option to replace any of these images with any other sequentially numbered image stored in memory as Thumbnail. 3. Reduced Pulsed Fluoroscopy mode 4. Must have Peripheral Vascular Fluoroscopy Mode with: a) Digital Subtraction Angiography, b) Reduced dose and contrast media with reusable mask, c) Peak Opacification / subtracted image of vasculature, d) Road Map imaging techniques ,e)DSA Land Marking, f) DSA Pixel Shifting. b) It should have included Hard disk with image storage capacity of at least 1, 00,000 images or more. c) It should have facility of CD/DVD, USB or integrated DICOM storage options. d) It should have facility of Zoom (x 4) or more, as well as split screen display e) Measures: at least distances, angles. Distance measurement between two points on live screen must be available for accurate distance / line measurements. f) It should be operated on normal power supply at all diagnostic and treatment area. g) The system offered shall be a general fluoroscopy / radiology system. h) Indicate here other features and software functions included in this offer. i) It should have DSA and Roadmap functionality with Repeated Mask selection, Peak Opacification and Auto Roadmap marking j) Cine Mode: Fluoro burst – 30 fps. Fluro- 10 fps Enhanced Fluoro – 6 fps. k)Unit should be compatible with Neuro Navigation systems 4.8 It should be equipped with in-build automatic system to control the radiation dose. 4.9 The Total weight of the C-arm system should not be more than 295 kg for easy to mobility. 6 Operating Environment 6.1 Power supply: 220–240VAC, 50Hz fitted with appropriate plug type D 3 pins. The power cable must be atleast3 meters in length. 7Standards & Safety Requirements 7.1 Must submit :ISO9001 or ISO13485 7.2 Must Submit: CE (93/42EEC Directives) and USFDA (510K) approved product certificate. 7.3 Should meet & Must Submit: IEC60601-1-3 Part1: General Requirements for safety- Collateral Standard: General Requirements for Radiation Protection in Diagnostic X- RAY Equipment.
34.	**Portable POC USG with**	**Technical Specifications for AI based High Performance Point of Care Color Doppler Ultrasound**

	functional ECHO	1. Should be top of the line and State of the Art fully digital compact portable ultrasound machine weighing less than 7kg with provision for color Doppler examinations with three probes integrated in system for easy Mobility or Portability. 2. The unit should be fully touch user interface, Gloves friendly, totally sealed panel to avoid any fluid damage with gesture recognition having multipurpose handle for probe, gel and adjustable rear support stand for use on flat surfaces. 3. Provided with compact stand with lockable wheels should be OEM trolley. 4. It should be suitable for abdominal, small parts, cardiac and vascular applications in both adults and pediatric, neonatal patient for future upgradability. 5. Multiple preloaded as well as user configurable application presets should be available. 6. Ophthalmic software should be standard as per FDA parameters. 7. The system should have advanced measurement, manual and automatic for all applications online & offline. 8. System must have **Artificial Intelligence** based Tools that includes as below having one touch calculation as asked. Parameters to be demonstrated: - 9. One touch AI Tool that continuously calculates real-time ejection fraction during live scanning in apical 4CH view with Cardiac Probe with AI based quality marker and without ECG gating. 10. Calculates the velocity time integral (VTI), stroke volume, CO Flux and cardiac output in a single step. Like the other tools, it should include an AI based quality indicator to assist with image acquisition with cardiac probe. 11. AI tool should be provided which highlights and counts B-lines in real-time automatically. System should display the frame with the highest B-line count. 12. One touch AI tool to measures IVC collapsibility in online/offline on image acquisition should be provided. IVC diameter changes (Collapsibility or distensibility index) should be measured and displayed in real-time upon completion of each respiratory cycle with cardiac probe. 13. Lung Tool should be available to see all ultrasound lung findings in one view. It should keep track of segmental lung assessment to show trends in response to therapy. 14. AI based auto detection of Nerve at Femoral, Brachial & Sciatic with video assist to be provided as standard.. 15. MSK Video assist diagram for Right and Left shoulder to be provided for MSK imaging. 16. Maximum scanning depth to be 36 cm or more. 17. The system should have simple user interface and a full screen mode to get a full screen view of the scanned area with provision write / mark or use pointer on working screen and screen shot. 18. System should support transducers from a frequency band with from 1-22MHz for head-to-toe applications. Also it should be compatible with transducer technologies like phased array, convex, linear,matrix Linear, hockey shaped, TEE etc. 19. Transducers should be lightweight digital, broadband and phased array- Adult , Pediatric and Neonatal in cardiac type transducers. 20. Provision for inter-switch ability between the transducers on the system without the need of manual disconnection, three probes should be connected if system is transported in Emergency without trolley. 21. Please provide OEM bag as standard. 22. The system should an integrated high resolution TFT / LCD of 15 inches (flicker free images) or more touch interface to support thorough cleaning for effective infection control.

		23. **Should be supplied with below transducers (one each):** 24. High Frequency Linear transducer with customizable buttons: 4-12 (+/-1)MHz for vascular, Nerve and small part imaging that very high image quality. 25. Adult Cardiac Phased Array Probe :1-5 Mhz(+/-1) for Adult Patient Cardiac scanning with AI, Auto TCD & AMM with offline measurements. 26. Convex transducer: 2-5(+/-1)MHz for General Abdomen, deep scan, Nerve imaging, IVC assessment with 36 CM depth 27. The system should display frame rate of at least 900 frames per seconds (fps) in B mode and more than 300 fps in Color mode. 28. System must be offered with Coded THI, multiple gray map ,chroma colors, speckle Reduction Imaging: Image processing technique to remove speckles and clutter artifacts 29. The Systems should have cine loop review facility of not less than 60 sec/1000 frames. 30. System should have 128 GB or higher capacity internal HDD. 31. The system should have the facility of digital storage and retrieval of B/W and colour image data with post processing of images and ability to do measurement offline. 32. Provision for ECG,USB port, HDMI and LAN transfer of data should also be present. 33. The system shall support all DICOM functionality, Storage, Print, and Work List, also ready to connect to PACS. 34. Imaging modes of Real time 2D, Colour, Pulsed wave, Colour M-Mode, TDI, Continuous Wave and Power (energy) Doppler, panoramic, Anatomical M-Mode should be available. 35. Controls for 2D mode: Total gain, depth, 8-TCG, dynamic range, acoustic power output. 36. Controls for Colour Doppler: PRF, colour gain, position and size of ROI, steering of ROI, colour maps and colour invert. 37. Controls for pulsed Doppler: variable sample volume size from 1 to 15mm or more, steer, PRF, baseline, gain angle correction, Volume flow for vessels, spectral invert duplex on/off. 38. Measurements for 2D mode: Multiple distances, area, slope, catheter to Vessel Ratio and volume. 39. Measurement for Doppler modes: Stenosis quantification in area percentage, Diameter, PSV, EDV, means, PI, RI, acceleration time and index. Automatic and manual measurements and display of pulsed Doppler calculations should be possible. 40. Unit should function with 200-240 V, 50 Hz AC, 5-amp power outlet power requirement to be specified 41. In built battery backup, should minimum 2 hr or more scan time with timer display. 42. System should have Triplex display, follow up tools, clean mode, scribble, panoramic view,B & M mode steer in cardiac for difficult patients, Chroma color in all mode, 43. System should be having Enhanced Needle software with free angle adjustment for better visualization of needle that enabled with needle gain, colour& Power doppler. Demonstration is must as important tool in setup. 44. Inbuilt Probe check software should be there for any Noise issue or malfunctioning due to multiple users. 45. Inbuilt manual for easy reference. 46. Power Transients standard:IEC61000-3-3 and EN\IEC60601-1-2. System should not take more than 300 VA.

		47. The unit should be both United States Food and Drug Administration (USFDA) and Conformity Europeans (CE) approved. 48. **Demonstrations of All parameters is MUST** 49. **Optional transducers:-** 50. Hockey Shaped probe with frequency range 8-18(+/-1)MHz for cannulation, catheter diameter measurement and line placement with Depth upto 8CM. 51. High Frequency Single crystal Linear transducer with four buttons: 4-20 (+/-1)MHz for vascular, Nerve and small part imaging that very high image quality. 52. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**
35.	**Handheld Portable USG Machine**	Specifications for Wireless Handheld Color Ultrasound The device should be portable/Mobile preferably a handheld point of care device/ Pocket sized and Wireless, Bluetooth enabled, easily connected/ paired to any devices and compatibility with both IOS and Android OS. 1.The device should have128 physical channel beam forming for better image quality. 2. The device should be light weight, weighing less than 300grams and battery operated should provide than 45 min backup for better mobile services within the hospital premises 3. Device should be capable /allowing displaying anatomy in real-time in black and white mode and color- coded Doppler for real time blood flow imaging. 4. Device should have the Button in the probe to control like Freeze or Store. 5. Device should have Auto optimized in 2D mode for basic and selectable focal zone marker. 6. Facility to see Image on bigger Screen upto 20 cm wirelessly (both Portrait and Land scape modes) 7. System should function/allow to adjust gain depth in 2D,color modes on externally connected device. 8. There should be facility for image control Selectable TGC control with 6 depth-dependent gain controls 9. System should be capable of doing multifunctional applications such as Abdominal, Vascular, peripheral vascular, musculoskeletal (conventional and superficial), small organs, ophthalmic, pediatrics, neonatal cephalic, Procedural Guidance, fetal/obstetrics, gynecological, urology, thoracic/lung, cardiac, interventional guidance (includes free hand needle /catheter placement, fluid drainage, nerve block, vascular access and biopsy). 10. The field of view should be minimum 60 degrees with maximum depth of 24cm. 11. Data should be generic format and in separate folders: jpg for still frames, Mp4 or loops, and easily transferred to other apps or another device. 12. The system should have mandatory free Application update through software IOS or any play store when they become available. 13. System should be sturdy and resistant enough to with stand from hit and fall from one-meter height and IP 67 Rating. 14. The System should have pulsed wave spectral doppler for blood velocity measurement and Motion mode to displays tissue motion over time. 15. The System should be able to carry out Measurements: Distance, circumference, angle, velocity, slope, heart rate, and obstetric measurements (BPD, HC, AC, FL, CRL, AFI, DVP and AOP) 16. System should allow for placement of annotations (Arrow and free text) on the frozen image or stored image 17. Probe configuration to be supplied as below:-

		The system should be provided with Curved array transducer probe: from 2 to 5MHz with maximum depth of 24 cm with 128 elements and Linear Probe 3 - 12Mhz with maximum depth of 8cm with 192 elements integrated on a single transducer with dual heads. 18. The unit should be both United States Food and Drug Administration (US FDA) and Conformity Europeans (CE) approved. **19. Machine specific Consumables rate to be quoted separately and fixed for 3 years**
36.	**Point of care Ultrasound with Cardiac Probe**	1. The device should be portable/Mobile preferably a handheld 'point of care' device/Pocket sized Wireless, Bluetooth enabled, easily connected/ paired to any devices, and compatibility with both I and Android OS 2. The device should have 128 physical channel beam forming for better image quality 3.The device should be light weight, weighing less than 300 grams and battery operated should provide than 45 min backup for better mobile services within the hospital premises. 4. Device should be capable/allowing to display anatomy in real-time in black and white mode and color-coded Doppler for real time blood flow imaging. 5. Device should have the Button in the probe to control like Freeze or Store 6. Device should have Auto optimized in 2D mode for basic and Selectable focal zone marker. 7. Facility to see Image on bigger Screen up to 20 cm wirelessly (both Portrait and Landscape modes) 8. System should function/allow to adjust gain depth in 2D, color modes on externally connected device 9. There should be facility for image control Selectable TGC control with 6 depth-dependent gain controls 10. System should be capable of doing multifunctional applications such as Abdominal, Vascular, peripheral vascular, musculoskeletal (conventional and superficial), small organs, ophthalmic, pediatrics, neonatal cephalic, Procedural Guidance, fetal/obstetrics, gynecological, urology, thoracic/lung, cardiac, interventional guidance (includes free hand needle/catheter placement, fluid drainage, nerve block, vascular access and biopsy). 11. The field of view should be minimum 60 degrees with maximum depth of 24 cm 12. Data should be generic format and in separate folders: jpg for still frames, Mp4 or loops, so that it can be easily transferred to other apps or another device. 13. The system should have mandatory free Application update through software IOS or any play store when they become available. 14. System should be sturdy and resistant enough to withstand from hit and fall from one-meter height and IP67 Rating 15. System should allow for placement of annotations (Arrow and free text) on the frozen image or stored image 16. Probe configuration to be supplied as below: - The system should be provided with phased array transducer probe: from 1.6 to 3.7 MHz with maximum depth of 24 cm and Linear Probe 3 - 12 Mhz with maximum depth of 8 cm with 192 elements integrated on a single transducer with dual heads. 17. The unit should be both United States Food and Drug Administration (US FDA) and Conformity Europeans (CE) approved **18. Machine specific Consumables rate to be quoted separately and fixed for 3 years**

37.	**Inhaled Nitric Oxide Delivery System (iNO)**	1. Should be a fully automatic and compact system which is able to deliver a minimum of 0 to 4(of NO in increment of 0.1 ppm and dosing should be microprocessor based. 2. Should be portable and have a mobile stand and trolley to accommodate all components of the system with mounting of at least two nitric oxide cylinders & an oxygen cylinder / oxygen ma simultaneously with two flow meters integrated with the system (core adjustment of NO and f tuning)) 3. Should be compatible with all the major neonatal, pediatric and adult ventilator systems (inclu high frequency ventilator) and should be provided with connectors to connect NO circuit with circuits of these ventilators. 4. Should have a facility to deliver in noninvasive mode of ventilation 5. System should have automatic mode, manual mode and emergency (through resuscitation bag 6. Should be able to deliver nitric oxide dosage proportional to respiratory flow and synchronize automatically with ventilatory flow rate 7. Should have facility to measure NO and NO2 high concentration in the ambient air for safety 8. Should have LCD monitor displaying real time NO concentration (0-100 ppm) & NO2 concentration (0-50 ppm) in the inspired gas with an Accuracy of 0.2 ppr NO and 0.2 ppm for NO2 and should also display The trend over time (the last 24 hours) 9. Should have Rechargeable long-life battery with running time of at least 240 min 10. Should have provided with Calibration kit including gas cylinder, all connectors and tubing 11. Should have Safety measure to check high and low dose supply of NO and Alarm (audio-visu alarm) for high NO2, High NO, low NO, low gas supply,tubing obstruction. It should also hav warning messages for calibration. 12. When one cylinder is getting emptied, it should automatically shift to the other cylinder witho cessation of the therapy. 13. The system should shift to manual mode automatically if any problem In auto mode for patient safety. 14. Should have built in safety features such as pressure relief and safety valves fitted to both regu 15. Consumables to be provided: a) NO delivery circuit (Flow sensor, Supply line, Sample line, T-adapter, Water trap, connecting tube, Nefion tube) – 5 no's b) Calibration kit – 1 set c) 10 litre aluminium cylinders filled with 1000 ppm NO (4 NO cylinders) Refillable in India d) One set of keys that fit to change O2 and NO cylinders e) Trolley with wheels (OEM) out of which two wheels should be lockable. 16. Supplier is responsible for calibration of equipment at recommended intervals using their own consumables during the period of warranty and CMC period. 17. Portable and lightweight (less than 10 kg without trolley and cylinder) 18. The elapsed nitric oxide treatment time should be displayed in the equipment. 19. The system should use Electrochemical sensors for detection of NO 20. Warm up time should be less than 3 minute. **Warrenty:** - The Supplied equipment and all accessories should be under Warranty for a period of FIVE years after successful commissioning - All spare parts, PC boards and service manuals should be

		Available with the local service centre during the warranty Period and steps should be taken immediately for servicing when Required to minimize down time. - Should be ISO/BIS/European CE & USFDA approved. **Machine specific Consumables rate to be quoted separately and fixed for 3 years**
38.	**Pediatric/Neonatal Video Bronchoscopy system**	**Specification for Video Processor and Light Source:** 1. Video Processor should be separated or integrated with Light Source. 2. Should be Equipped with high-Definition HDTV Imaging capacity. 3. Light Source supplied should have LED/MULTI-LED (Minimum 4 LED)/300 Watt. xenon Lamp. 4. Should be compatible with both DVI and HD-SDI output. 5. Should have real time latest optical enhancement technologies like NBI/BLI/i-Scan OE. 6. It should be compatible with the supplied Leakage testing device. 7. It should have pre-freeze function for sharper images 8. Should have Picture-in-picture and index functions for enhanced observation 9. Should have 16:9 and 16:10 outputs for HDTV monitors. 10. Should have a slot for memory/CF Card/USB for image storage. **2.Technical Specifications for Pediatric Bronchoscope:** 1. Field of view should be 110 degrees or more. 2. Direction of view should be forward viewing 3. Depth of field should be 2-50 mm or more 4. Distal end outer diameter should be 4.2 mm or less 5. Insertion tube outer diameter should be 4.1 mm or less 6. Channel diameter should be 2.0 mm or more. 7. Should have 120 degree LEFT/RIGHT insertion tube rotation function for smoother insertion and easier operation. 8. Should have up/Down angulation range up to 210/130 degree. 9. Should be compatible with the new optical enhancement technologies like NBI/BLI/I-SCAN-OE 10. It should have waterproof one touch connector and fully submersible without a water-resistant cap. 11. For close observation scope should have 1.2x and 1.5x electronic magnification 12. Working length should be 600 mm or more. **3.Technical Specifications for Pediatric Ultra slim Neonatal Bronchoscope:** 1.Field of view should be 110 degrees or more. 2.Direction of view should be forward viewing 3.Depth of field should be 2-50 mm or more 4.Distal end outer diameter should be 3.1 mm or less 5.Insertion tube outer diameter should be 2.8 mm or less 6.Channel diameter should be 1.2 mm or more.

7.Should have 120 degree LEFT/RIGHT insertion tube rotation function for smoother insertion and easier operation.

8.Should have up/Down angulation range upto 210/130 degree.

9.Should be compatible with the new optical enhancement technologies like NBI/BLI/I-SCAN-OE

10.It should have waterproof one touch connector and fully submersible without a water-resistant cap.

11. Working length should be 600 mm or more.

4. Technical specifications for Ultra-Thin Bronchoscope:

1. Field of view should be 90 degrees or more.
2. Direction of view should be forward viewing
3. Depth of field should be 2-50 mm or more
4. Distal end outer diameter should be 3.0 mm or less
5. Insertion tube outer diameter should be 3.7 mm or less
6. Channel diameter should be 1.7 mm or more.
7. Should have 120 degree LEFT/RIGHT insertion tube rotation function for smoother insertion and easier operation.
8. Should have up/Down angulation range up to 210/130 degree.
9. It should have waterproof one touch connector and fully submersible without a water-resistant cap.
10. Working length should be 600 mm or more.

Image/Video Recording Software: Qty 01

- High resolution, high quality, image, and video capture.
- It should be supplied with Foot Switch for still and video recording.
- Should be able to capture images, videos or both simultaneously.
- Pause and Resume function while recording.
- Should have multiple templates for reporting.

High Resolution Monitor.

27inch Medical Grade monitor with high Definition from reputed make only.

- High contrast and wide viewing angle.
- Adjustable image size by using various scanning modes. Synchronizing full height and full screen functionality.
- Multiple HD and SD inputs.
- Multi-modality display capability including picture-in-picture (PIP) and picture-out-picture (POP).

Trolley: Qty 01

- Trolley to mount the complete system.

		Computer System with UPS & Printer: Qty 01 • Computer system with UPS. • Laser Printer. **All quoted product should be US FDA approved and have CE certified** **Machine specific Consumables rate to be quoted separately and fixed for 3 years**