



**NOT TRANSFERABLE**

# **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 **Telefax:** 0194-  
2432008 **email:** [jkmsclj@gmail.com](mailto:jkmsclj@gmail.com); [jkmsclepm@gmail.com](mailto:jkmsclepm@gmail.com) **website:** [www.jkmscl.nic.in](http://www.jkmscl.nic.in)



## **E BID FOR THE ESTABLISHMENT OF SIMULATION LAB**

**(REFERENCE NO: NIT/JKMSCL/Skil-LAB/2019/357 DATED: 19.08 .2019)**

**LAST DATE OF SUBMISSION OF ONLINE BIDS: 17-09-2019 upto 1600 hrs**

## BIDDING DOCUMENT FOR PROCUREMENT OF SIMULATORS

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(To be submitted on letter head of Firm)

**Bid Submission Letter**  
(Declaration Form-Cum -Check List)

Subject: - Regarding Bid submission for **NIT/JKMSCL/SIM-LAB/2019/ 357 DATED 19-08-2019**

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 enclose the following documents as per details given below: -**

S. No	Item	Particular (Page No.)	
1.	Technical bid submission sheet	of the bidder	(Annexure I)
2.	Financial/Price Bid submission sheet (Price to be quoted online only).	of the bidder	(Annexure II)
3.	Bid security (Through FDR/CDR/BG)	of the bidder	
4.	Bid / Tender charges ( Incl. Tender processing fee)	of the bidder	
5.	Copy of GST Registration	Bidder	Manufacturer/ direct importer
6.	Latest GST Returns	Bidder	Manufacturer / direct importer
7.	Copy of the PAN Card	Bidder	Manufacturer / direct importer
8.	<b>Point of supply with full Address specifically mentioning e-mail contact to counter verify the supplies made.</b>	To be mentioned by the bidder	
		NB: Specifying point of supply does not means authorization to raise, invoice and receive payments on behalf of bidder(s)	
9.	<b>DECLARATION REGARDING VERIFICATION</b> (To be submitted on non judicial stamp paper & notarised)	From the bidder	
10.	<b>Declaration and Undertaking</b> On Non Judicial Stamp Paper worth Rs. 100/- Attested by Notary Public and submitted with Cover- 'A'	From the bidder	<b>Annexure IV A</b>
11.	<b>Declaration of Manufacturer/Direct Importer</b> (to be submitted by the	from the principal manufact	<b>Annexure IV B</b>

	manufacturer or the direct importer as the case may be <i>on non judicial stamp paper of Rs. 100 &amp; notarised</i> )	urer/ direct Importer, whichever applicable		
12.	<b>Statement of Past Supplies and Performance.</b>	<i>On bidders letter head &amp; notarised</i>	Annexure V	
13.	<b>Authorization (Applicable in case of direct importer only)</b> <i>On the letterhead of manufacturer and notarized,</i> for sale from the principal (foreign) manufacturer/ direct Importer, whichever applicable. (in case of direct importer or 100% subsidiary of foreign Principals, necessary certification in favour of the direct importer or Indian Subsidiary from the Principal manufacturer should be attached)	from the principal manufacturer/ direct Importer, whichever applicable	Annexure VI	
14.	Article of association of company i.e. MOA & AOA of the company and details of registration by registrar of companies i,e Nature of the Firm/Lab-- Public Limited Company / Private Company/ Partnership/ Proprietorship/Any other with Documentary proof.			
15.	Self attested photocopy of IEC certificate	of the Importer		
16.	<b>Authorisation of Bidder by the manufacturer</b> <i>(On the letterhead of manufacturer and notarized)</i>	from the principal manufacturer/ urer/	<b>Annexure VII</b>	
17.	Average Annual Turnover Statement for Last 3 financial Years issued by Chartered Accountant/competent authority. (Duly Notarized)	from the principal manufacturer/ direct Importer, whichever applicable.	<b>Annexure VIII</b>	
18.	Copies of Audited Balance sheet & profit loss account for last three financial years certified by Chartered Accountant	As per annexure VIII		
19.	List of Items quoted IN THE BID	From the bidder	<b>Annexure IX</b>	
20.	Market Standing Certificate not less than 3 preceding years from the			

	Competent Authority /Copies of Purchase Orders.			
21.	Statement of Installed Manufacturing Capacity of the Manufacturer. (in case of Indian Manufacturers)			
22.	Statement of Plant & Machinery etc. (in case of Indian Manufacturers)			
23.	UNDERTAKING – IN ACCEPTANCE TO THE TENDER DOCUMENT	From the bidder with Photograph	Annexure All	
24.	Original Catalogue (duly attested )	From the bidder		
25.	Compliance Sheet for each equipment (duly attested)	From the bidder		
26.	The bidder shall also submit the following documents and certificates along with the bid as per technical bid submission letter:- <b>(i) A combined undertaking/ declaration regarding that the quoted item :</b> a. Model is of latest technology, b. the items quoted are still in production and has not become outdated, c. that the rate quoted are not higher than the rates charged from any other institute, d. spare parts and consumables of the quoted item shall remain available at least for a period of 10 years/life of the item, from the date of installation.	From the bidder	principal manufacturer /direct importer	
27.	Acknowledgement <b>of EM-II SSI</b> unit for each quoted Product and a certificate from NSIC/MSME for the production capacity & the quality control measures properly installed at the production unit, If applicable			
28.	BIS License with schedule for ISI Marked Products Quoted (wherever applicable)			
29.	<b>Quality Certificates</b> for quoted Items as mentioned in bid Catalogue (wherever applicable)			

	BIS License with schedule for ISI Marked Products			
	ISO			
	CE			
	USFDA			
30.	Corrigendum/modification/clarification uploaded with bid document (if applicable)			
31.	Name, photograph & specimen signature of the designated officer/ representative of the Bidder who is authorized to make correspondence with the JKMSCL, if any.			
32.	<b>Acknowledgement of EM-II</b> for SSI Units of J&K from Industries Department (if applicable)			
33.	Performa for Authorized Representative of Original Manufacturer/ Direct Importer for verification of supplies. <b>on the letter head of the</b> original Manufacturer/ Direct Importer of bidding items, <b>duly notarised.</b>			

Dated

Name and signature of bidder with seal



**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  
**Telefax:** 0194-2432008  
**email:** [jkmsclj@gmail.com](mailto:jkmsclj@gmail.com) [jkmsclepm@gmail.com](mailto:jkmsclepm@gmail.com) **website:** [www.jkmscl.nic.in](http://www.jkmscl.nic.in)

Tender No. **NIT/JKMSCL/SIM-LAB/2019/357**

**Dated: 19-08-2019**

### **NOTICE INVITING TENDER**

On Behalf of Jammu & Kashmir Medical Supplies Corporation Limited, e-bid under two cover system (Technical bid) and Financial bid is invited for the finalization of Rate Contract for the procurement of **SIMULATORS** from the 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](http://www.jktenders.gov.in) and [www.jkmsclbuisness.com](http://www.jkmsclbuisness.com).

The cost of the tender along with tender processing fee of Rs. 10,000.00 (Rupees Ten thousand only) for General & Rs.9,100/- for local SSI Unit holders shall have to be paid either through NEFT in the JKMSCL Corporation's bank Account No. 0373040500000032 maintained at J&K Bank Medical College Jammu, IFSC Code JAKA0MEDJAM or by depositing the amount directly into the above mentioned account number and submission / uploading Bank transfer / Deposit Receipt as documentary proof or **by submitting a Call Deposit Receipt (CDR) valid on call** in favour of FA/Chief Accounts Officer JKMSCL drawn on any of the Scheduled/Nationalized bank in favour of Jammu & Kashmir Medical Supplies Corporation Limited Payable at Jammu/Srinagar.

**Bank Draft as Tender Fee or Tender Processing Fee shall not be entertained**

Managing Director  
Jammu and Medical Supplies Corporation Ltd.



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### BIDDING DOCUMENT FOR PROCUREMENT OF SIMULATORS

Tender No. **NIT/JKMSCL/SIM-LAB/2019/357**

**DATED:-19.08.2019**

Date of publication of e-bid	:	20.08.2019 at 16.00 hrs
Start date and time for download of bid document	:	20.08.2019 at 16.00 hrs
Last date and time for download of bid document	:	17.09.2019 at 1600 hrs
Clarification start date	:	20.08.2019 at 1100 hrs
Clarification end date	:	28.08.2019 upto 1600 hrs
<b>Pre- bid conference</b>	:	<b>29.08.2019 AT 11.00 A.M</b> <b>(at Corporate Office, Jammu)</b>
Start date and time for submission of online bids	:	20.08.2019 at 1600 hrs
Last date and time for submission of online bids	:	17.09.2019 at 1600 hrs
Date and time for online opening of technical bids	:	19.09.2019 at 1100 hrs
Cost of tender document	:	Rs. 1000/- (For SSI Unit Rs. 100/-)
Tender Processing Fee	:	Rs. 9000/-

An amount of Rs.10,000.00 (Rupees Ten thousand only), comprising of cost of Bid document as Rs.1000.00 (Rupees one thousand only) & Bid Processing fee as Rs.9000/- (Rupees Nine thousand only) shall have to be paid either through NEFT in the Corporation's bank **A/C No-0373040500000032** maintained at J&K Bank Medical College Jammu, **IFSC Code JAKA0MEDJAM** or by depositing the amount directly into the above account no. or **by submitting a Call Deposit Receipt (CDR) valid on call** in favour of FA/Chief Accounts Officer JKMSCL drawn on any of the Scheduled/Nationalized bank in favour of Jammu & Kashmir Medical Supplies Corporation Limited Payable at Jammu/Srinagar.

- (i) Scanned copies of Bank transfer/deposit receipt of cost of tender document and Tender processing fee and EMD in the shape of FDR/ CDR shall have to be uploaded along with Technical Bid.
- (ii) However CDR/ FDR shall have to be deposited, in original, at the office of MD, JKMSCL, Jammu/ Srinagar before the last date and time of bid submission.

**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](http://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 concerned commercial taxes Officer 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](http://www.jktenders.gov.in). [www.jkmsclbuisness.com](http://www.jkmsclbuisness.com)

**Note: -**

1. *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. Bidders are requested to submit their queries/clarifications in advance so that the same can be discussed and clarified during the Pre-bid meeting.**

TABLE-1

<b>S. No.</b>	<b>Item Code</b>	<b>Items Tendered</b>	<b>Average Annual Turnover for the last three years</b>
1.	SIMU 001	<b>ALS MANNEQUINE</b>	05 crore
2.	SIMU 002	<b>ENDOTRACHEAL INTUBATION TRAINER</b>	05 crore
3.	SIMU 003	<b>TRACHEOSTOMY MANNEQUINE</b>	05 crore
4.	SIMU 004	<b>MANNEQUINE CRANIUM</b>	05 crore
5.	SIMU 005	<b>SPINAL MANNEQUINE</b>	05 crore
6.	SIMU 006	<b>AUDIO VISUAL RECORDING ANDEDITING HARDWARE AND SOFTWARE</b>	05 crore
7.	SIMU 007	<b>ENDOVASULAR SIMULATOR</b>	05 crore
8.	SIMU 008	<b>OPERATING MICROSCOPE (INSTRUCTIONAL MODEL)</b>	05 crore
9.	SIMU 009	<b>ENDOSCOPE</b>	05 crore
10.	SIMU 010	<b>USG SIMULATOR</b>	05 crore
11.	SIMU 011	<b>LAPROSCOPIC SIMULATOR</b>	05 crore
12.	SIMU 012	<b>NEONATAL MANIKIN</b>	05 crore
13.	SIMU 013	<b>Human fetus replicas</b>	05 crore
14.	SIMU 014	<b>Abdominal palpation mannequin for leopold maneuvers during pregnancy</b>	05 crore
15.	SIMU 015	<b>Dictaphone</b>	05 crore
16.	SIMU 016	<b>Autoclave</b>	01 crore
17.	SIMU 017	<b>Hand held uterus mannequin</b>	05 crore
18.	SIMU 018	<b>Female lower torso mannequin with normal and postpartum uterus and accessories</b>	05 crore
19.	SIMU 019	<b>Intranatal care: child birth simulator along with attachment for cervical dilatation (closed os, 4cm, 6cm, 8cm, fully dilated cervix</b>	05 crore
20.	SIMU 020	<b>Postpartum suturing trainer</b>	05 crore
21.	SIMU 021	<b>Mannequin for simulation and management of PPH</b>	05 crore
22.	SIMU 022	<b>Intramuscular injection training mannequin</b>	05 crore
23.	SIMU 023	<b>Adult CPR mannequin</b>	05 crore

24.	SIMU 024	<b>Adult iv training arm kit</b>	05 crore
25.	SIMU 025	<b>Female catheterization mannequin</b>	05 crore
26.	SIMU 026	<b>Essential new born care &amp; resuscitation mannequin</b>	05 crore
27.	SIMU 027	<b>Normal new born baby mannequine (KMC)</b>	05 crore
28.	SIMU 028	<b>Digital thermometer (measurement of body temperature)</b>	05 crore
29.	SIMU 029	<b>Electrical suction machine</b>	05 crore
30.	SIMU 030	<b>Peadiatric IV Arm kit</b>	05 crore
31.	SIMU 031	<b>Og tube insertion mannequin</b>	05 crore
32.	SIMU 032	<b>Glucometer</b>	01 crore
33.	SIMU 033	Oxygen administration (oxygen concentrator)	01 crore
34.	SIMU 034	<b>Oxygen administration (oxygen hood</b>	01 crore
35.	SIMU 035	<b>Nebulizer</b>	01 crore
36.	SIMU 036	<b>Multi dose inhaler with spacer</b>	01 crore

The Average Annual Turn Over required for the above items pertaining to Group "SIMULATORS" 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.

**Note:**

1. The catalogues/brochures of the item shall be submitted along with the demand drafts in separate envelopes, 01 day 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 or compensation from the Jammu & Kashmir Medical Supplies Corporation Ltd.
3. Unsigned catalogues/brouchers pertaining to the equipment information shall not be considered & the tender for the said firm shall be out-rightly rejected.

## **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 document.

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
2.	Bid form must conform the terms & conditions of the bid documents and <b>Technical Bid in Cover-'A' &amp; Financial Bid in Cover-'B' to be uploaded on <a href="http://www.jktenders.gov.in">www.jktenders.gov.in</a>. The cost of tender, tender processing fee, EMD and catalogues of the quoted items shall be submitted in the office of JKMSCL atleast one day prior to submission of online bids.</b>
3.	It is expected from all bidders that DD/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
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 as annexure AI & AV.
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. 0191-2580842, 0194-2432008 or e mail on <a href="mailto:jkmsslj@gmail.com">jkmsslj@gmail.com</a>
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 <a href="mailto:gmjjkmscl@gmail.com">gmjjkmscl@gmail.com</a> . 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
8	The Bidders shall have to submit a GST No. & GST clearance certificate/return submitted from the concerned commercial taxes officer and
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 format. Bids submitted with changed or modified annexure/
10	The declaration of technical bid in respect of responsive/non responsive bidders shall be uploaded on website <a href="http://www.jktenders.gov.in">www.jktenders.gov.in</a> 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 State. 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 State of J&K/after charging the administrative
12	The qualified bidders are required to submit the relevant documents and annexure uploaded with their e.bid in original alongwith catalogues at the time of issuance of LOI /execution of agreement before issuance of rate contract.
13	The bidder shall not under any circumstances quoted "Zero" anywhere in the BOQ including CMC. If the Bidder wishes to provide CMC " free of cost", same should be indicated in the relevant column of BOQ by quoting Rs 1.00

**Section-II: Bid Data Sheet (BDS) Table  
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S. No.	Description	Pages
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2.	Bidding Document	
3.	Preparation of Bids	
4.	Submission and Opening of Bids	
5.	Evaluation and Comparison of Bids	
6.	Award of Contract	
7.	Redressal of Grievances during Procurement Process	



## Section-II: Bid Data Sheet (BDS)

Clause No.	Description
<b>1.</b>	<b>Introduction</b>
1.1	The Procuring Entity is : Jammu & Kashmir Medical Supplies Corporation Ltd (J&K)
1.2	The expenditure on the subject matter of procurement shall be met by budgetary resources of demanding / indenting officers of the concerned department. The goods and related services to be procured are as per table 1 and as per <i>technical specifications</i>
1.3	The rate contract shall be valid for a period of two years which may be extended for a further period of three months.
<b>2.</b>	<b>Bidding document</b>
2.1	Bids are invited from manufacturers/direct importers/ authorised representatives of the original manufacturers/direct importers. Joint venture will not be allowed.
2.2	The price of the bidding document Rs. 1000/- as tender fee (Rs. 100/- in case of SSI unit of J&K State only) and Rs. 9000/- as tender processing fee (non-refundable)
2.3	<b>Bid Security:</b> Rs. 100,000 in the form of FDR/CDR/BG. (FDR/CDR from scheduled/Nationalised Bank or BG from Nationalised Bank) <b>with validity of 30 months. Bids submitted without sufficient bid security &amp; validity shall be summarily rejected.</b> In case of successful bidder(s), the amount of bid security shall be adjusted for performance security for the supply order(s) placed to the firms/bidders. The amount of performance security, if exceeds the bid security, the remaining amount shall have to be deposited by the firm against the supply orders issued from time to time.
2.4	The Pre-bid meeting shall be held at the office of JKMSCL, Jammu as per critical dates.
<b>3.</b>	<b>Preparation of Bids</b>
3.1	The language of the bid shall be in English only <b>The Bidder shall uploaded as per the documents reflected in the bid submission letter</b>
3.2	The Bidder shall upload financial bid submission sheet ( <b>Annexure II</b> ) <b>N.B : No rate should be quoted/uploaded along with technical bid. Rates are to be uploaded on BOQ only.</b>
3.3	Alternative bids are not permitted.
3.4	Discounts or award of combination of lots shall not be offered.
3.5	For goods offered from outside India/direct importer, the bidder shall quote prices including all kinds of costs like inland transportation, taxes, installation and commissioning charges up to the consignee site, complete in all respect including consumables kit for demonstration ( <i>if any</i> ).
3.6	The terms of quoting price of equipments are inclusive of all taxes/charges with installation and commissioning etc. complete in all respect.
3.7	The prices quoted by the bidder shall be fixed for entire contractual period of equipments. The contract price shall be fixed for a contact period of 24 months of the goods and related services; extendable upto 03 months with mutual consent.
3.8	The currency of the bid shall be multi-currency.
3.9	The bid validity period shall be minimum 180 working days from the opening of technical bid.
3.10	The scanned copy of complete bid document filled and signed on each

	page as per Instructions to bid (ITB) and other requirements need not to be uploaded on website <a href="http://www.jktenders.gov.in">www.jktenders.gov.in</a> . However, declaration regarding acceptance of all the terms & conditions and other clauses as given in the tender document duly notarised shall have to be uploaded along with technical bid.
3.12	The authorisation to sign on behalf of the bidder shall consist of power of attorney by the bidder/any valid certification or the change in bidder shall be resolved in the board of firm/ company which shall be immediately communicated to the JKMSCL. No authorised agent/dealer/supplier shall be allowed to make any declaration which is mandatory required to be made by the MD/chairman/Directors/authorised person designated by the manufacturing company/importer.
4.	<b>Evaluation and comparison of bid</b>
4.1	The price preference shall apply as per GCC and SCC provisions.
5.	<b>Award of Contract</b>
5.1	If the procuring entity does not procure any subject matter of procurements, the bidder shall not be entitled for any claim or compensation. No minimum quantity is guaranteed.
5.2	The period within which the contract agreement is to be executed and performance security is to be submitted is 15 days from the date of receipt of letter of intent (LOI) through email, fax/correspondence etc.
5.3	The performance security shall be required as per <b>GCC-10</b> @5 % of the value of the indicative quantity in favour of JKMSCL payable at Jammu/Srinagar.
6.	<b>Redressal Grievances during Procurement Process</b>
6.1	<p>I. In case of any dispute, the decision of Managing Director, JKMSCL shall be final and binding.</p> <p>II. If any dispute arise out of the contract with regard to the interpretation, meaning and breach of the terms of the contract, the matter shall be referred by the parties to the Managing Director JKMSCL, J&amp;K who will appoint his senior most officer as the sole arbitrator of the dispute who will not be related to this contract and whose decision shall be final.</p> <p>III. <b>If any bidder or prospective bidder is aggrieved that any decision, action, omission of the procuring entity is in contradiction to the provisions of the Act/Rules of the guidelines issued there under; he may file an appeal to first &amp; final appellate authority, i.e Secretary to Govt. Health &amp; Medical Education department, J&amp;K within 10 days from the date of such decision, action, omission as the case may be, clearly giving the specific ground(s) on which he/she feels aggrieved. Fee for such appeal shall be Rs. 10,000/- (ten thousand only), 50% of which shall be refundable, if the decision is announced in his/her favour.</b></p> <p>IV. Any legal dispute shall be within the jurisdiction of Hon'ble High Court of Jammu / Srinagar (J&amp;K).</p>
7.2	Name & Address of the Bidder: Name and Designation..... M/S ..... Telephone No..... Telegram Code ..... Fax No..... Mobile No ..... e-mail address .....(email of responsible person be intimated)

**SECTION III – QUALIFICATION AND EVALUATION CRITERIA**

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S.No.	Description	Pages
1.	Qualification Criteria	
2.	Evaluation Criteria	

### 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.	<b>Contractual experience:-</b> The bidder shall be a 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.	<b>Technical experience:-</b> The goods (similar) offered/ being procured by JKMSCL have been produced and sold for at least three years and have been in operation satisfactorily.
3.	<b>Production capacity :</b> 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.	<b>Financial position:-</b> 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.	<b>Cash Flow capacity :</b> 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.	<b>Litigation history:-</b> The information regarding all pending claims, arbitration, or other litigation is asked by the JKMSCL
7.	<b>Tax clearance certificates:-</b> The 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 from the concerned commercial taxes officer, GST No. and the 'PAN' issued by income tax department.
8.	<b>Declaration regarding qualifications :-</b> Declaration regarding qualifications of the bidder shall be given in specified format provided in bidding forms.

## 1. Evaluation Criteria

Clause	Description
1.	<b>Scope</b>
1.1	<b>Local handling and inland transportation:-</b> 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	<b>Minor omission and missing items:-</b> 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.	<b>Technical Criteria:-</b> 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.	<b>Economic Criteria: -</b> 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>i.e.</i> cost per test etc. The following may be examples: - 3.1, 3.2....
3.1	<b>Adjustment for deviations in the delivery and completion schedule: -</b> 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	<b>Operation and maintenance cost :</b> 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) Generally, the life cycle of equipment and its comprehensive maintenance period is defined in technical specifications. Presently, maintenance costs are evaluated at their present value over the life cycle of the goods and then added to the price of the goods for comparison of bids.
3.2	<b>Spare parts: -</b> Only those spare parts and tools which are specified on an item wise basis in the list of goods and related services Section V, 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. <b>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 and CMC (wherever asked) i.e cost of main item + cost of Accessories + CMC = Total cost of equipment. (For Instruments CMC is not applicable)</b>
3.3	<b>Performance and productivity of goods:-</b> 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.	<b>Price preference:-</b>
4.1	The price preference ( <b>applicable for SSI units of J&amp;K State only</b> ) shall be given in evaluation of bids and award of contract as per J&K Industrial Policy 2004 & 2016 and amendment made thereof from time to time.
4.2	<b>Taxes as</b> applicable, should be mentioned clearly and separately.

## Section IV: Bidding Forms

### Table of Contents

S.No	Name of Bidding Forms	Pages
1	Bid security (Through FDR/CDR/BG)	
2	Bid / Tender charges ( Incl. Tender processing fee)	
3	Technical bid submission sheet (Annexure I)	
4	Financial bid submission sheet (Annexure II)	
5.	Financial bid format (BOQ) (Annexure III)	
6	Declaration and undertaking (Annexure IV)	
7	Statement of past supplies and performance (Annexure V)	
8	Authorisation from principal manufacturer(Annexure VI)	
9	Average Annual Turnover Statement (Annexure VII)	
10.	Letter of Acceptance (Annexure VIII)	
11	List of Items Quoted (Annexure IX)	

(To be submitted on Firms' letter head)

Annexure I

**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 Guarantee period plus CMC etc.* .....
2. Our bid shall be valid for a period of minimum 180 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 following mandatory documents attached along with this technical bid Submission Sheet. The following documents/certificates/requirements are fulfilled:**

34.	Technical bid submission sheet	Of the bidder	(Annexure I)
35.	Financial/Price Bid submission sheet (Price to be quoted online only).	Of the bidder	(Annexure II)
36.	Bid security (Through FDR/CDR/BG)	Of the bidder	
37.	Bid / Tender charges ( Incl. Tender	Of the bidder	

	processing fee)		
38.	Copy of GST Registration	Bidder	Manufacturer/ direct importer
39.	Latest GST Returns	Bidder	Manufacturer / direct importer
40.	Copy of the PAN Card	Bidder	Manufacturer / direct importer
41.	<b>Point of supply with full Address specifically mentioning e-mail contact to counter verify the supplies made.</b>  NB: Specifying point of supply does not means authorization to raise, invoice and receive payments on behalf of bidder(s)	To be mentioned by the bidder	
42.	<b>DECLARATION REGARDING VERIFICATION</b> <i>(To be submitted on non judicial stamp paper &amp; notarised)</i>	From the bidder	
43.	<b>Declaration and Undertaking</b> <i>On Non Judicial Stamp Paper worth Rs. 100/- Attested by Notary Public and submitted with Cover-'A'</i>	From the bidder	<b>Annexure IV A</b>
44.	<b>Declaration of Manufacturer/Direct Importer</b> <i>(to be submitted by the manufacturer or the direct importer as the case may be on non judicial stamp paper of Rs. 100 &amp; notarised)</i>	from the principal manufacturer/ direct Importer, whichever applicable	<b>Annexure IV B</b>
45.	<b>Statement of Past Supplies and Performance.</b>	<i>On bidders letter head &amp; notarised</i>	Annexure V
46.	<b>Authorization (Applicable in case of direct importer only)</b> <i>On the letterhead of manufacturer and notarized,</i> for sale from the principal (foreign) manufacturer/ direct Importer, whichever applicable. (in case of direct importer or 100% subsidiary of foreign Principals, necessary certification in favour of the direct importer or Indian Subsidiary from the Principal manufacturer should be attached)	from the principal manufacturer/ direct Importer, whichever applicable.	Annexure VI
47.	Article of association of company i.e. MOA & AOA of the company and details of registration by registrar of companies i.e Nature of the Firm/Lab-- Public Limited Company / Private Company/		



	Partnership/ Proprietorship/Any other with Documentary proof.		
48.	Self attested photocopy of IEC certificate	of the Importer	
49.	<i>(On the letterhead of manufacturer and notarized)</i> <b>Authorisation of Bidder by the manufacturer</b>	from the principal manufacturer/	<b>Annexure VII</b>
50.	Average Annual Turnover Statement for Last 3 financial Years issued by Chartered Accountant/competent authority. (Duly Notarized)	from the principal manufacturer/ direct Importer, whichever applicable.	<b>Annexure VIII</b>
51.	Copies of Audited Balance sheet & profit loss account for last three financial years certified by Chartered Accountant	As per annexure VIII	
52.	List of Items quoted IN THE BID	From the bidder	<b>Annexure IX</b>
53.	Market Standing Certificate not less than 3 preceding years from the Competent Authority /Copies of Purchase Orders.		
54.	Statement of Installed Manufacturing Capacity of the Manufacturer. (in case of Indian Manufacturers)		
55.	Statement of Plant & Machinery etc. (in case of Indian Manufacturers)		
56.	UNDERTAKING – IN ACCEPTANCE TO THE TENDER DOCUMENT	From the bidder with Photograph	Annexure Alll
57.	Original Catalogue (duly attested )	From the bidder	
58.	Compliance Sheet for each equipment (duly attested)	From the bidder	
59.	The bidder shall also submit the following documents and certificates along with the bid as per technical bid submission letter:- <b>(i)</b> A combined undertaking/declaration regarding that the quoted item : e. Model is of latest technology, f. the items quoted are still in production and has not become outdated, g. that the rate quoted are not higher than the rates charged from any other institute, h. spare parts and consumables	From the bidder	principal manufacturer /direct importer

	of the quoted item shall remain available at least for a period of 10 years/life of the item, from the date of installation.		
60.	Acknowledgement of <b>EM-II SSI</b> unit for each quoted Product and a certificate from NSIC/MSME for the production capacity & the quality control measures properly installed at the production unit, If applicable		
61.	BIS License with schedule for ISI Marked Products Quoted (wherever applicable)		
62.	<b>Quality Certificates</b> for quoted Items as mentioned in bid Catalogue (wherever applicable)		
	BIS License with schedule for ISI Marked Products		
	ISO		
	CE		
	USFDA		
63.	Corrigendum/modification/clarification uploaded with bid document (if applicable)		
64.	Name, photograph & specimen signature of the designated officer/ representative of the Bidder who is authorized to make correspondence with the JKMSCL, if any.		
65.	<b>Acknowledgement of EM-II</b> for SSI Units of J&K from Industries Department( if applicable)		
66.	Performa for Authorized Representative of Original Manufacturer/ Direct Importer for verification of supplies. <b>on the letter head of the</b> original Manufacturer/ Direct Importer of bidding items, <b>duly notarised.</b>		

11. 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.

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

Name/Address..... in the capacity or.....(Designation).....  
Signed.....  
duly authorized to sign the bid for and on behalf of.....(Name of Firm).....  
Dated..... Tel:.....Fax:.....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 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, Annexure All duly filled shall need to be uploaded alongwith e.bid ; otherwise no representation in this matter shall be entertained in the later stage.***

(To be submitted along with  
required fees)

**Financial/Price Bid Submission Sheet (Cover 'B')**

To:

**Managing Director**

Jammu & Kashmir Medical Supplies  
Corporation J&K

I/We ..... the undersigned, declare that:

1. I/We have examined and have no reservations to the bidding document, including Addenda  
No.:..... dated ....., if any
2. I/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 equipments/items with guarantee and CMC etc.).....;
3. The prices of said equipment/item(s) are uploaded electronically in BOQ on website [www.jktenders.nic.in](http://www.jktenders.nic.in) in as per instructions provided;
4. The uploaded financial bid checked, confirmed and found as per bid instructions;
5. The copy of demand draft as per ITB (instructions to bidder) with respect to bid security and cost of bidding document and processing fee are enclosed as detailed below:-
  - (i) Bid Security : Rs.100000/- (one lac only) (proof to be attached if paid through RTGS)
  - (ii) Cost of bidding document: Rs. 1000/- (non refundable)
  - (iii) JKMSCL processing fee : Rs. 9000/- (non refundable).
6. 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;
7. I/We agree to permit the JKMSCL to ask any relevant document. I/we shall be bound to provide the said relevant document within the specified period.
8. I/We accept all the terms, conditions and provisions of this bid document.

Name/Address..... In  
 the capacity or.....(Designation).....  
 signed.....  
 duly authorized to sign the Bid for and on behalf of.....(Name of  
 firm)..... dated.....  
 Tel:.....Fax:.....e-mail:.....

**ITEM WISE FINANCIAL BID (BOQ)  
For Uploading Rates of Equipment**

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 currency	Custom duty	SGST	CGST	IGST	Custom clearance in foreign currency	Total Amount including Taxes
1	2	3	4	5	6	7	8	9	10	11			12	13
	Main item													
	Accessories													
	Indian items													
CMC for 1st Year		CMC for 2 <sup>nd</sup> Year		CMC for 3 <sup>rd</sup> Year		CMC for 4 <sup>th</sup> Year		CMC for 5 <sup>th</sup> Year		Total amount including CMC				
14		15		16		17		18		19				

Signature

**Note: -**

- The rate quote should be as per BOQ.
- CGST , SGST OR IGST should be separately shown.
- Rate should be quoted only for packing units as mentioned in the bid
- No quantity or cash discounts should be offered.
- Read all the terms & conditions before filling the Annexure III.
- Please quote rates in absolute amount only.
- Please quote rates per unit only
- Finalization of the rates shall be made on the basis of price quoted in BOQ including CMC of five years i.e Total amount including cumulative CMC for 05 years (after 05 years guarantee period)
- Custom duty, if applicable shall be indicated separately.
- The final rates quoted at Column No. 19 shall be considered as final rates and shall be considered for evaluating financial bid. L1 rate shall be finalised on the basis rate + CMC and taxes as applicable at the time of execution.
- The price for evaluating L1 (as per BOQs) shall be decided on the basis of cumulative rates of Main item, Accessories (wherever asked) and CMC i.e cost of main item + cost of Accessories+ Indian items + CMC = Total cost of equipment.**

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

**(For Imported equipment)**

**Letter of credit would be opened subject to following additional conditions:**

- At site LC would be opened.
- LLOYD A level vessel would be used for shipment of supplies which should not be more than 15 years old.
- 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 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.**
8. **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.**
9. **The CMC of the equipment shall be calculated to evaluate L1.**
10. **Cost of consumable kits/locally supplied items, if any. However local accessories, if quoted in Indian currency, GST shall be paid as admissible under rules.**
11. **The prices quoted should be as per the international price of the manufacturer applicable to all the countries including India.**
12. **The L1 shall be calculated on the basis of conversion of currency as on date of opening of financial bid.**
13. **The bidder shall not under any circumstances quoted "Zero" anywhere in the BOQ including CMC. If the Bidder wishes to provide CMC " free of cost", same should be indicated in the relevant column of BOQ by quoting Rs 1.00**

**Exchange Rate :**

Rates prevailing at the time of opening of financial bid or at the time of actual delivery of Ordered goods whichever is lower shall be applicable.

**PLEASE DON'T WRITE 00 AGAINST THE ITEMS FOR WHICH YOU DIDN'T WISH TO QUOTE ; INSTEAD, DO WRITE "NOT QUOTED" AGAINST THE SAID ITEM; AS THE SYSTEM TAKES RS. 00.00 AS L1.**

**Declaration and Undertaking**

*(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 guarantee period with spare parts of each quoted equipment as per terms & conditions or technical specifications. (From the date of installation/ demonstration).
5. (a) I/We do hereby undertake that our company/firm has not been black listed/banned/debarred 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 by..... (Name, Address of Govt./dept./State) and detailed information is as given below:
  - (i) Cause of black listing/banning/debarring.
  - (ii) For which item.....
  - (iii) Period of black listing/banning/debarring.
  - (iv) Latest Status of black listing/banning/debarring.
4. I/We hereby confirm that we have deposited all the GST/all applicable taxes as on dated ..... with the concerned authority/department. No GST/other taxes is due on the firm as on dated .....
5. 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.

Place  
Dated:

Signature of authorized  
signatory Name and  
signature of bidder  
Designation with seal

(To be submitted on non judicial stamp paper of Rs. 100 & notarised)

Declaration of Manufacturer/Direct Importer

Date: \_\_\_\_\_
NIB No.: \_\_\_\_\_

I/We a legally constituted firm/body.....(Name of Firm/Company with address) and represented by Mr.....(Name of Bidder/Sale 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 (as per Annexure X) (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 guarantee period with spare parts of each quoted item as per terms & conditions or technical specifications. (From the date of installation/ demonstration).
4. (a) Our company/firm has not been black listed/ banned/ debarred 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 by ..... (Name, Address of Govt./dept./State) and detailed information is as given below:
(i) Cause of black listing/banning/debarring.
(ii) For which item.....
(iii) Period of black listing/banning/debarring.
(iv) Latest Status of black listing/banning/debarring.
5. I/We hereby confirm that we have deposited all the GST/all applicable taxes as on dated ..... with the concerned authority/department. No GST/other taxes is due on the firm as on dated .....
6. 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. After the warranty period we shall be responsible for providing CMC of the equipment on the rates offered by the bidder.

If this declaration is found to be incorrect then without prejudice to any other action that may be taken, my/our bid security may be forfeited in full and the bid if any to the extent accepted may be cancelled.

signed.....
name.....
in the capacity of..... duly authorized to sign the authorization for and on behalf of.....
(Name of sale proprietor/firm/company).....
Tel: ..... Fax: ..... E-mail: .....
Dated: .....



*(On Firm's letter head & notarised)*  
**STATEMENT OF PAST SUPPLIES AND PERFORMANCE**

**SEPARATE FOR EACH ITEM**

I/We..... *(Name of firm.....)* do hereby certify that we have supplied..... *(Name of equipment.....)* as per details given below:-

Financial year	Order placed by [full address of purchaser with telephone & fax no.]	Order No. and date	Description and quantity of ordered goods	Date of completion of delivery		Remarks indicating reasons for late delivery, if any	Has the equipment s been supplied & installed Satisfactory?
				As per contract	Actual		
2016-17							
2017-18							
2018-19							

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 in last three financial years.
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:  
 Dated  
 :

Signature of bidder with Seal

(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

(On the letterhead of manufacturer and notarized)  
**Authorisation from foreign principal manufacturer**  
(Applicable in case of direct importer only)

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

Subject: Regarding authorisation for our products.  
Ref.: Your NIB no. ....dated.....

Name of items.....

Dear  
Sir,

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 authorised to submit a Bid, process the same further and enter into a contract with you against your requirement as contained in the above referred bid documents for the above goods manufactured by us.

I/we also hereby extend our full guarantee, CMC 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.

This authorization shall be valid till the completion of rate contract period and related services i.e. guarantee 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).

(On the letterhead of manufacturer and notarized)

**Authorisation of Bidder by the Firm**

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

Subject: Regarding authorisation of bidder by the firm  
Ref.: Your NIB no. ....dated.....

Name of items.....

Dear Sir, 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 Mr..... (Name & Designation of  
Bidder).....to submit a bid, process the same further, to raise invoice, enter into a  
tripartite contract with you against your requirement and to receive payments, on their behalf  
as contained in the above referred bid documents/NIB for the above goods manufactured  
by us.

I/we further confirm that no individual other than Mr.....(Name & Designation of  
Bidder), is authorised to submit a Bid, process the same further and enter into a contract  
with you against your requirement as contained in the above referred Bid documents for the  
above goods manufactured by our Firm.

I/we also hereby extend our full consent, as applicable as per bid conditions of  
contract, read with modifications/addendum, if any, in the conditions of contract for the  
goods and services offered for supply by the authorized bidder/signatory against this bid  
document.

In case of default of authorised representative (or) otherwise, I/we also hereby confirm  
that 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 the rate contract period and  
related services ie. guarantee etc., whichever is later.

The attested photocopy of photo ID/voter ID/driving license/any other equal  
document for authorised person is enclosed here.

Yours faithfully,

(Name & signature of chairman).....

For M/s

.....  
AUTHORISED SIGNATORY OF FIRM

Accepted by the authorized person Mr.....(Signature, Name &  
address).....

(On Firm's letter head & notarised)  
**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 2015-16, 2016-17 & 2017-18 and shall be responsible, if any variation/discrepancy is found during evaluation /later stage.

Sl. No.	Financial Years	Turnover in Lakhs (Rs.)
1.	2016-17	-
2.	2017-18	-
3.	2018-19	-
Total		- _____ Lakhs

Average gross annual turnover \_\_\_\_\_ Lakhs

Note :

- To be prepared strictly as per returns filed with Taxation Department & the statement should be supported with returns filed for the last three financial years.
- The turnover should be supported by the balance sheets of the respective years.
- The Certificate issued by Taxation Department shall also be considered for turn over certification.
- The Average Annual Turn Over required for the item(s) pertaining to the Group "SIMULATORS" 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.

**(Annexure IX)**

*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	Model quoted/ offered configuration	<b><u>Quality Certification</u></b>  BIS License/  ISO/ CE/ BIS/ USFDA

(To be submitted on non judicial stamp paper & notarised)

**DECLARATION REGARDING VERIFICATION**

I/we.....S/o.....aged.....

year 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

Signature of bidder..... Name:

.....

Address:

..... Mobile no..... e-mail

address.....

**Section V: Schedule of Supply**

**Table of Contents**

<b>S. No.</b>	<b>Description</b>	<b>Pages</b>
1.	List of goods and related services	
2.	Delivery and completion schedule	
3.	Technical specifications	
4.	Drawings	
5.	Inspections and tests	



## Section V: Schedule of Supply

Clause No.	Description
<b>1</b>	<b>List of goods and related services</b>
1.1	Name of item.....
1.2	Related services are delivery, local transportation, installation, commissioning, demonstration and training etc.
1.3	Guarantee period starts from the date of successful installation for a period of five years.
1.4	Comprehensive maintenance contract shall be executed for a period of five years from the date of completion of guarantee period. However, JKMSCL may, if deemed fit, enter into third party agreement under comprehensive equipment maintenance programme, Govt. of India.
<b>2</b>	<b>Delivery and completion schedule</b>
2.1	<b>SUPPLY ORDERS AND SUPPLY SCHEDULE:</b>
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 Super Speciality Hospital, Jammu and Psychiatric Disease Hospital, Srinagar. 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	<b>PROCURING ENTITY'S RIGHT TO VARY QUANTITY:</b>
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	<b>SUBMISSION OF CONTRACT COMPLETION REPORT</b>
2.3.1.	A consolidated statement shall be submitted to General Manager, EPM by the 10 <sup>th</sup> of each month. Every time the statement should contain details of all orders placed under the contract.
2.3.2	Firms shall have to submit consolidated statement in duplicate at the end of rate contract as well as after expiry of equipment / instrument guarantee period (as provided in guarantee clause of the contract) to enable the corporation to examine the case for refund of performance security.
2.3.3	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 guarantee period. It shall be the responsibility of the consignee to get the complaint of guarantee 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	<b>PACKING &amp; INSURANCE:</b>
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 2.5% 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.	<b>Packing specifications</b> 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 <b><u>"JKMSCL Supply" for the year 2019-20, 20-21 "Not for Sale "</u></b> and it should carry the correct technical name, strength or the product, date of manufacturing, date of expiry, quantity packed and

	<p>net weight of the box in bold letters.</p> <p><b>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.</b></p>
<b>2.6</b>	<b>REJECTION OF GOODS:</b>
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.
<b>2.7</b>	<b>Payment Terms (For items quoted in foreign currency)</b>
2.7.1	<p><b>For Payment through Letter of Credit</b></p> <p>80% payment shall be released against presentation of shipping documents against submission of bank guarantee of <b>10%</b> order value valid for a period of one year whichever is later and 20% after satisfactory installation certificate issued by the user department.</p> <p><b>Letter of credit would be opened subject to following additional conditions :</b></p> <ol style="list-style-type: none"> <li>1. At site LC would be opened.</li> <li>2. LLOYD A level vessel would be used for shipment of supplies which should not be more than 15 years old.</li> <li>3. Supplies shall be insured by the OEM till the final delivery site shall also include "Force Majeure"</li> <li>4. Pre-dispatch inspection shall be carried out by OEM by certified inspection</li> </ol>

	<p>agency before shipment of supply.</p> <p>5. <b>The product shall be comprehensively insured upto site of installation for all type of insurance.</b></p> <p><b>For Indian items :</b></p> <p>Payment shall be made after successful installation and commissioning of the equipment duly certified by Head of the concerned department.</p>
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 All to be uploaded alongwith 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 debaring/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.
<b>2.8</b>	<b>LIQUIDATED DAMAGES:</b>
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	<p>In case of extension in the delivery period with liquidated damages, recovery of liquidated damages shall be made at such rates, as given below, of value of stores which the bidder has failed to supply :-</p> <p>(a) Delay up to one- fourth period of the prescribed delivery period - <b>2.5%</b></p> <p>(b) Delay exceeding one fourth but not exceeding half of the prescribed delivery period - <b>5%</b></p> <p>(c) Delay exceeding half but not exceeding three- fourth of the prescribed delivery period - <b>7.5%</b></p> <p>(d) Delay exceeding three- fourth of the prescribed period - <b>10%</b></p> <p>Fraction of a day in reckoning the period of delay in supplies shall be eliminated if it is less than half a day. The maximum amount of agreed liquidated damage shall be 10%.</p>
2.8.3	<p>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&amp;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.</p>
2.8.4	<p>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.</p>
2.8.5	<p>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&amp;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.</p> <p>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.</p>
2.8.6	<p>LD for damaged packing or loose packing equivalent to 2.5% 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.</p>
<b>2.9</b>	<b>RECOVERIES:-</b>
2.9.1	<p>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 &amp; security deposits available with the JKMSCL. In case recovery is not possible, action will be taken as per prevailing Acts/rules in J&amp;K State.</p>

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	<b>Testing &amp; 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.</b>

### 3. Technical Specifications:

Annexure: AVI (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 alongwith 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	<b>INSPECTION OF EQUIPMENTS AND INSTRUMENTS:-</b>
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.	<p><b>Definitions</b></p> <p>The following words and expressions shall have the meanings hereby assigned to them:</p> <p><b>'Act/Rules'</b> means Acts &amp; rules prevailing in J&amp;K State in terms of procurement.</p> <p><b>'Completion'</b> Means the fulfilment of the supplies and Related Services by the supplier in accordance with the terms and conditions set forth in the contract.</p> <p><b>"Contract"</b> 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.</p> <p><b>"Contract Documents"</b> Means the documents listed in the agreement, including any amendments thereto.</p> <p><b>"Contract Price/Rate"</b> 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.</p> <p><b>"Day"</b> Means calendar day.</p> <p><b>"Delivery"</b> 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.</p> <p><b>"GCC"</b> Means the general conditions of rate contract.</p> <p><b>"SCC"</b> Means the special conditions of rate contract".</p> <p><b>"Goods"</b> Means all of the commodities, raw material, machinery and equipment, documents, warranties and /or other materials that the supplier is required to supply to the Procuring Entity under the Contract.</p> <p><b>"Procuring Entity"</b> Means the entity purchasing the goods and related services, Managing Director Jammu and Kashmir Medical Supplies Corporation, J&amp;K, or as specified in the special conditions of the contract (SCC).</p> <p><b>"Related Services"</b> Means the services incidental to the supply of the goods, such insurance, installation, training and initial maintenance, commissioning of SIMULATORS and other similar obligations of the supplier under the contract.</p> <p><b>"Subcontractor"</b> 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.</p> <p><b>"Supplier"</b> 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.</p> <p><b>Authorised representative</b> : 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.</p> <p><b>Authorised signatory</b> : Means the natural person authorised by the proprietor,</p>

	<p>Managing Director/Chairman/Board of Director of original manufacturer/direct importer under their seal signatures duly notarized to sign on behalf of the company.</p> <p><b>"The Site"</b> where applicable, means the place of delivery, installation, testing/ commissioning of the goods /equipment or machinery or as mentioned in the supply order.</p> <p><b>"Consignee"</b> Means the receiver of the stores as mentioned in supply order.</p>
<b>2.</b>	<b>General terms</b>
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 : <a href="http://www.jktenders.gov.in">www.jktenders.gov.in</a> . 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 <a href="http://www.jktenders.gov.in">www.jktenders.gov.in</a> submitted to Managing Director, Jammu and Kashmir Medical Supplies Corporation, J&K

2.6	<p>The bidder shall also submit the following documents and certificates along with the bid as per technical bid submission letter :-</p> <p>(i) A combined undertaking/declaration regarding that the quoted item :</p> <ul style="list-style-type: none"> <li>i. 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,</li> <li>j. That the bidder is not black listed or banned or debarred by central or any state government or its append gages,</li> <li>k. Availability of spare parts and consumables for the quoted equipment for at least 10 years/life of the item, from the date of installation.</li> </ul> <p>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&amp;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).</p> <p>(ii) <b>The bidder, in case of representative of the manufacturer/direct importer shall submit fresh authorization of the manufacturer/direct importer duly authenticated and notarized.</b></p> <p><b>PLEASE ALSO NOTE THAT: -</b></p> <p>(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.</p> <p>(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.</p>
2.7	<p>Financial Bid duly filled in (Annexure III/BOQ) giving the rates for quoted items should be uploaded through e portal <a href="http://www.jktenders.gov.in">www.jktenders.gov.in</a>. The rate should not be disclosed/uploaded in the technical bid. <b>Rates uploaded along with technical bid shall means out rightly rejection of bid of the concerned person.</b></p>
2.8	<p>The required amounts towards cost of bid document and tender processing fee shall be deposited through demand draft &amp; the EMD in form of FDR/CDR/BG pledged in favour of Chief Accounts Officer, JKMSCL the in the corporate office of Jammu and Kashmir Medical Supplies Corporation, Jammu/Srinagar 01 day before the last date and time of bid submission.</p> <p>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 &amp; conditions of the bid.</p>
2.9	<p>(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.</p> <p>(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</p>

	<p>Medical Supplies Corporation, J&amp;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.</p>
<b>3</b>	<b>BID SECURITY:</b>
	<p>(i) Bid shall have to be accompanied with a scanned copy of FDR/CDR/BG as bid security. However, the FDR/CDR/BG as 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 &amp; validity shall be summarily rejected.</p> <p>(ii) The bid security of bidder shall be refunded after the earliest of the following events, namely:-</p> <p>(a) the expiry of validity of bid security;</p> <p>(b) the cancellation of the procurement process; or</p> <p>(c) the withdrawal of bid prior to the deadline for presenting bids, unless the bidding documents stipulate that no such withdrawal is permitted.</p> <p>(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.</p> <p>(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.</p>
<b>4</b>	<b>FORFEITURE OF BID SECURITY: -</b>
	<p>The bid security shall be forfeited if:</p> <p>(i) The bidder withdraws or modifies the offer after opening of financial bid, but before acceptance of bid,</p> <p>(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),</p> <p>(iii) The bidder does not deposit the 'performance security' after the supply order is placed/requested for signing the agreement,</p> <p>(iv) The bidder fails to commence the supply of the items as per supply order within the time prescribed,</p> <p>(v) The bidder fails to submit samples/demonstration of quoted item on demand</p> <p>(vi) The bidder violates any of the terms &amp; conditions of the bid document.</p>
<b>5</b>	<b>WARRANTY CLAUSE:-</b>
	<p>(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 guarantee period, if the said</p>

	<p>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.</p> <p>(ii) The bidder shall, during the Guarantee 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 supplied goods operative.</p> <p>(iii) The successful bidder shall be responsible for carrying out annual maintenance and repairs on the terms &amp; conditions, as agreed. The bidder shall have to ensure that consumables required for the maintenance of SIMULATORS are being supplied free of cost during warranty period. The adequate regular supply of spare parts and consumables per incident for the SIMULATORS, 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 SIMULATORS. 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&amp;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.</p>
6	<b>MARKING</b>
	<p>All items and accessories supplied should bear marking "JKMSCL SUPPLY 2019-20, 20-21 (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.</p> <div data-bbox="435 1625 620 1772" style="text-align: center;">  </div> <p>JKMSCL SUPPLY (19-20, 20-21) NOT FOR SALE</p>
7	<b>COMPARISON OF RATES:</b>

	<ul style="list-style-type: none"> <li>(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.</li> <li>(ii) Consignee/ authorised dealer may be located at a district headquarter or as directed by Jammu and Kashmir Medical Supplies Corporation Limited, J&amp;K and the rates must be quoted accordingly. No cartage or transportation charges shall be payable.</li> <li>(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.</li> <li>(v) In the event of any subsequent variation (increase or decrease) in the rate of GST or nay other taxes by the government (state or central), the same will be admissible accordingly.</li> <li>(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&amp;K.</li> <li>(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.</li> <li>(viii) No part of the bid document should be detached / deleted.</li> <li>(ix) <b>For comparison of rates, the average comprehensive annual maintenance charges shall be added to the rate quoted for the equipments, if comprehensive annual maintenance is applicable.</b></li> </ul>
<b>8</b>	<b>SUBMISSION OF SAMPLES/CATALOGUES AND DEMONSTRATION</b>
	<ul style="list-style-type: none"> <li>(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.</li> <li>(ii) Samples of items(s) should be collected back from the JKMSCL, J&amp;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.</li> <li>(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</li> </ul>

	<p>shall be entertained for demonstration.</p> <p>(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:</p> <ol style="list-style-type: none"> <li>a. Name and full address of the firm</li> <li>b. Catalogue no. and name of the item</li> <li>c. Name of section</li> <li>d. Name of manufacturer</li> <li>e. Brand</li> </ol> <p>(v) No change in marking on sample will be allowed after the submission of the sample.</p>
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<b>10</b>	<b>PERFORMANCE SECURITY (P.S.) AND AGREEMENT:</b>
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	<p>(i) The successful bidder shall submit the original copy of Bid document signed on each page <b>at the time of agreement</b>. However, while uploading the technical bid, only the declaration regarding acceptance of terms &amp; conditions shall be uploaded.</p> <p>(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.</p> <p>(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). However, the bank guarantee shall be for a validity period of six months, beyond the guarantee period sought for the item.</p> <p>(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.</p> <p>(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 guarantee period for the item.</p> <p>(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 until the additional Performance Security due is deposited by the supplier or additional.</p> <p>(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 guarantee provisions.</p> <p>(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.</p>
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	<p>(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 15 days from the date of acceptance of the bid is communicated to him. However, Managing Director JKMSCL, J&amp;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.</p> <p>(x) The bidder shall furnish the following documents at the time of execution of agreement:-</p> <p>(i) Attested copy of partnership deed in case of partnership firms.</p> <p>(ii) Registration number and year of registration, in case partnership firm is registered with registrar of firms;</p> <p>(xi) Address of residence and office, telephone numbers, in case of sole proprietorship with :</p> <p>(i) Registration issued by registrar of companies under Registrar of companies Act 1956, in case of company.</p> <p>(ii) Comprehensive maintenance agreement, if applicable.</p> <p>(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&amp;K and decision of Managing Director JKMSCL J&amp;K shall be final.</p> <p>(xv) The rate contract can be repudiate/rejected at any time by the Managing Director JKMSCL, J&amp;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&amp;K may terminate the agreement of contract at any time without notice/intimation to the successful bidder.</p>
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<b>11</b>	<b>SUPPLY ORDERS:</b>
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	<p>(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.</p> <p>(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 &amp; cost purchase provision.</p> <p>(iii) In case of imported items, 30 days shall be given in addition to above mentioned period,</p> <p>(iv) Supplies shall be at the discretion of the authorities of JKMSCL 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.</p> <p>(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</p>
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	<p>such a case, the requirement may be met by dividing the quantity among the rate contract holders considering the quantity required and dedicated capacity of the successful bidders.</p> <p>(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.</p> <p>(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.</p>
<b>12</b>	<b>SUBMISSION OF CONTRACT COMPLETION REPORT</b>
12.1	A consolidated statement shall be submitted to General Manager, EPM by the 10 <sup>th</sup> of each month. Every time the statement should contain details of all orders placed under the contract.
12.2	Firms shall have to submit consolidated statement in duplicate at the end of rate contract well as after expiry of equipment / instrument guarantee period (as provided in guarantee clause of the contract) to enable JKMSCL to examine the case for refund of performance security.
12.3	The end user shall intimate the complaint/defect arise immediately to the manufacturer/importer/representative with copy to JKMSCL for further follow up..
<b>13</b>	<b>LIQUIDATED DAMAGES:</b>
	<p>(i) 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 JKMSCL.</p> <p>(ii) In case of extension in the delivery period with liquidated damages, recovery of liquidated damages shall be made at such rates, as given below, of value of stores which the bidder has failed to supply :-</p> <p>(a) Delay up to one- fourth period of the prescribed delivery period - 2.5%</p> <p>(b) Delay exceeding one fourth but not exceeding half of the prescribed delivery period - 5%</p> <p>(c) Delay exceeding half but not exceeding three- fourth of the prescribed delivery period - 7.5%</p> <p>(d) Delay exceeding three- fourth of the prescribed period -10% fraction of a day in reckoning the period of delay in supplies shall be eliminated if it is less than half a day. The maximum amount of agreed liquidated damage shall be 10%.</p> <p>(iii) 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 JKMSCL 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 JKMSCL after sanction of extension in delivery period.</p> <p>(iv) 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 that too after thorough consideration by</p>

	<p>the Managing Director, JKMSCL.</p> <p>(i) 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.</p> <p>(ii) LD for damaged packing or loose packing equivalent to 2.5% 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.</p>
14	<p>(i) JKMSCL shall procure the Simulators for the Health &amp; Medical Education Institutes of J&amp;K State, inter-alia.</p> <p>(ii) The funds shall be transferred to JKMSCL with indent form and supply orders shall be placed by JKMSCL to suppliers.</p>
<b>15</b>	<b>RECOVERIES</b>
	<p>(i) 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 &amp; security deposits available with the JKMSCL. In case recovery is not possible, recourse will be taken under or any other law in force.</p> <p>(ii) Any recovery on account of liquidated damage charges/risk &amp; cost charges in respect of previous rate contracts/supply orders placed on them by 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&amp;K regarding authenticity of sum payable shall be final.</p>
<b>16</b>	<b>INSPECTION:-</b>
	<p>(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 SIMULATOR 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</p>

	<p>inspection. The SIMULATORS 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.</p> <p>(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.</p> <p>(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&amp;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.</p> <p>(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.</p> <p>(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.</p>
17	<b>PACKING AND INSURANCE</b>
	<p>(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 or 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.</p> <p>(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.</p> <p>(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.</p>
18	<b>REJECTION</b>
	<p>(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</p>

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.
<b>20</b>	<b>PROCURING ENTITY'S RIGHT TO VARY QUANTITY:</b>
	<p>(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.</p> <p>(ii) If the Managing Director JKMSCL J&amp;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.</p> <p>(iii) If the Bidder fails to supply the Managing Director JKMSCL J&amp;K shall be free to arrange/procure the items and the extra cost incurred shall be recovered from the Supplier.</p>
<b>21.</b>	<b>PARALLEL RATE CONTRACT</b>
	<p>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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(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</p> <p>(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).</p> <p>(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.</p> <p>(viii) If the L-1 supplier has failed to supply / intimated JKMSCL about his inability /</p>

	<p>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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p> <p>(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.</p>
<b>22</b>	<b>VALIDITY OF BID:</b>
	Bids shall be valid for a 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.
<b>23</b>	<b>PRICE ESCALATION:</b>
	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.
<b>24</b>	<b>SUBLETTING OF CONTRACT:</b>
	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.
<b>25</b>	<b>FALL CLAUSE:-</b>
	(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 in the state of J&K. 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 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

	<p>or responsibilities, contractual obligations, or compliance with applicable laws and regulations.</p> <p>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 :</p> <ol style="list-style-type: none"> <li>a. Have controlling partners/shareholders in common; or</li> <li>b. Receive or have received any direct or indirect subsidy from any of them; or</li> <li>c. Have the same legal representative for purposes of the bid; or</li> <li>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</li> <li>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</li> <li>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.</li> </ol> <p>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.</p>
<p><b>27</b></p>	<p>All correspondence in this connection should be addressed to the Managing Director JKMSCL, J&amp;K. Technical questions should be referred to the Managing Director JKMSCL, J&amp;K direct by correspondence or by personal contact.</p>
<p><b>28</b></p>	<ol style="list-style-type: none"> <li>(i) Direct or indirect canvassing on the part of bidders or their representative shall disqualify their bids.</li> <li>(ii) Supplier may be disqualified, banned or suspended from business during the rate contract if : <ol style="list-style-type: none"> <li>(a) fails to execute a contract or fails to execute it satisfactorily ;</li> <li>(b) no longer has the technical staff or equipment considered necessary ;</li> <li>(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 ;</li> <li>(d) The firm is suspected to be doubtful loyalty to state.</li> <li>(e) The State Bureau of Investigation (SBI) or any other Investigating agency recommends such a course in respect of a case under investigation.</li> <li>(f) Managing Director JKMSCL, J&amp;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.</li> </ol> </li> </ol>
<p><b>29</b></p>	<p>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.</p>



30	<p>(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.</p> <p>(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.</p>
31	<p>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.</p>
32	<p><b>GRIEVANCE</b></p>
	<p><b>Grievance</b> regarding interpretation of any clause of the contract/agreement executed between the parties shall be referred to Managing Director, JKMSCL for its clarification.</p>
33	<p><b>ARBITRATION</b></p>
	<p>34.1 Governing Law: This NIT shall be governed by and construed in accordance with the laws of the State of Jammu and Kashmir and the laws of India as applicable to the State of Jammu and Kashmir.</p> <p>34.2.1 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</p> <ul style="list-style-type: none"> <li>i. a description of the dispute</li> <li>ii. the ground for such dispute</li> <li>iii. all written material in support of its claim</li> </ul> <p>34.2.2 The other party shall, within thirty days of issuance of dispute notice issued, furnish:</p> <ul style="list-style-type: none"> <li>I. Counter claim and defences, if any, regarding the dispute; and</li> <li>II. All written material in support of its defences and counter claim</li> </ul> <p>34.2.3 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&amp;K for its reference to arbitration.</p> <p>34.3 Dispute Resolution: Besides, as referred above in para 29.1.3 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 Managing Director, JKMSCL, J&amp;K who will appoint his senior most officer as sole Arbitrator of the dispute, 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 J&amp;K Arbitration and Conciliation Act, 1997. The venue</p>

	<p>of the Arbitration shall be in the State of Jammu and Kashmir.</p> <p><b>Note:</b> - 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</p>
<b>34</b>	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
<b>35</b>	Extra stipulation or any other condition contrary to the above bid conditions are not acceptable and may render the bid liable to rejection.
<b>36</b>	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 <b>Annexure A1</b> shall be treated as acceptance of all the terms and conditions of the bid document.
<b>37</b>	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.
<b>38</b>	<b>JURISDICTION:-</b> 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 <b>Cover "A" Technical Bid</b> and financial details (BOQ) should be uploaded under <b>Cover "B"</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). Acceptance of comprehensive maintenance contract after expiry of guarantee period should be submitted with the cover "A" and rates in cover "B" respectively.
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.	<b>All certificates should be valid on the date of submission of bids and issue of supply order.</b>
7.	The bidder should have well equipped local service centre in India preferably in J&K.
8.	<p>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.</p> <p>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.</p>
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 <b>penalty of Rupees five thousand per day</b> , 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.

**APPLICABILITY OF CLAUSES:** - All the clauses from 1 to 38 of general terms and conditions and from 1 to 13 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**

S.No.	Description	Pages
1.	Letter of Acceptance (Annexure A1)	
2.	Agreement Form	To be downloaded from the website
3.	Form for bank guarantee (on bank letter head)	To be downloaded from the website
4.	Format-Authorized Representatives/Agents of Original Manufacturer/Direct Importer (Annexure AII)	
5.	Declaration regarding acceptance of terms & conditions of tender document by the bidder (Annexure AIII)	
6.	Technical Specifications (Annexure AIV)	

## LETTER OF ACCEPTANCE

M/s .....

.....

.....

.....

Sub :- Acceptance of the bid rates for the item .....

Ref :- Your bid no. .... dated .....

1. Item (s) as per schedule enclosed/ noted/is/are approved in your favour against the rate (s) quoted by you in the above mentioned bid. According to the terms & conditions of the bid it is necessary to execute an agreement in the prescribed form enclosed, on a non judicial stamp paper of Rs. .... and furnish the requisite amount of performance security. The amount of performance security calculated on the basis of the approved items and indicative quantity mentioned in the bid from works out to ..... (..... only)
2. The performance security shall be furnished to Jammu and Kashmir Medical Supplies Corporation Limited through bank draft payable at Jammu.
3. All terms and conditions of the bid document shall be an integral part of the contract. You are informed to return the agreement form along with schedule of rates for approved item (s) in duplicate duly filled in and signed by you with signature and addresses of two witnesses below signature at the appropriate place mentioned in the agreement form. The copies of the agreement form must be send duly completed in all respect along with the amount as mentioned above falling which it will be treated as a breach of the terms and conditions of the bid and it will also be presumed that you are not interested in entering into the contract and approval of the rates shall be cancelled without notice or any reference.
4. The list of approved items may be checked and in case there is any difference between your offer and the approved rates, the same may be intimated immediately, failing which it will be presumed that it is correct as per your offer and technical specification.
5. The firm shall furnish consolidated statement of supplies made to JKMSCL by the 10<sup>th</sup> of the next month as per terms of conditions.
6. Please note that self attested/notarized copies of documents shall be considered valid. If photo copies are submitted, than at the time of signing the agreement, the firm shall bring original documents for confirmation.
7. Also please arrange to furnish the following documents required under the terms and conditions of the bid failing which the agreement will not be executed and the failure would lie at your part
  - (i) **The original copy of bid document signed on each page, which has been uploaded on e-procurement portal.**
8. You are therefore; requested to please complete the above formalities within 15 days from the date of issue of this letter. The duly signed duplicate copy of the agreement will be returned to you for reference.

**Encl.:**1. Agreement form  
 2. Schedule of Rates  
 3. CMC format, if applicable  
 Any other

Managing Director  
 Jammu and Kashmir Medical Supplies Corporation Limited

Format-Authorized Representative of Original  
Manufacturer/Direct Importer

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. KMSCL 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. After the warranty period the rates offered by our dealer for CMC of the equipment shall be applicable and binding on us on same terms and conditions.

No company or firm or individual other than 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 Clause2(a) –Eligibility Conditions, of the tender document. We hereby extend our full guarantee 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**

UNDERTAKING – IN ACCEPTANCE TO THE TENDER DOCUMENT

Managing Director,  
Jammu & Medical Supplies Corporation Ltd.

Subject : Acceptance of terms & conditions of Tender Document.

Sir,

1. I/We hereby agree to abide all terms and conditions laid down in tender document.
2. We will be responsible for guarantee for five years from the date of successful installation and commissioning of equipment.
3. This is to certify that/we have read and fully understood all the terms and conditions and instructions contained therein and undertake myself/over selves abide by the said terms and conditions and sign this undertaking as letter of acceptance of all the tender document.

(Signature of the bidder)  
Name and address of the bidder  
With photograph



Tender Specifications

1	<u>SIMU001</u>	<p><u>SPECIFICATION FOR ALS MANNEQUIN (ADVANCE LIFE SUPPORT SIMULATOR)</u></p> <p><b>Teaching goals –</b></p> <ul style="list-style-type: none"> <li>➔ Should fulfill the training needs of pre-hospital and in-hospital emergency care Providers - from basic assessment to advanced life-support skills.</li> <li>➔ Build competencies and prepare for real-life emergencies, from pre-hospital, on Scene assessment and management to definitive care in a hospital, simulator Should fulfill the unique training requirements of emergency healthcare providers.</li> </ul> <p>Skills focused –</p> <ul style="list-style-type: none"> <li>• Airway management</li> <li>• Breathing assessment</li> <li>• Palpation and auscultation</li> <li>• Fluid resuscitation</li> <li>• ECG interpretation</li> <li>• Defibrillation</li> </ul> <p>Product Features</p> <ol style="list-style-type: none"> <li>1. The simulator should be completely wireless and self-contained with internal Electrical and pneumatic power.</li> <li>2. Should have supplemental-wired connectivity and power.</li> <li>3. Should wirelessly integrates with existing computer networks</li> <li>4. Possibility to attach an additional battery on the side to extend the use</li> <li>5. Rugged and reliable for use in multiple environments</li> </ol> <p>Multiple Airway Skills/Features</p> <ol style="list-style-type: none"> <li>i. Controllable open/closed airway; automatically or manually controlled</li> <li>ii. Head tilt/Chin lift</li> <li>iii. Jaw thrust w/articulated jaw</li> <li>iv. Suctioning (Oral &amp; Nasopharyngeal)</li> <li>v. Bag-mask ventilation</li> <li>vi. Orotracheal intubation</li> <li>vii. Nasotracheal intubation</li> <li>viii. Combitube, LMA, I-gel and other airway placement</li> <li>ix. Endotracheal tube intubation</li> <li>x. Retrograde intubation</li> <li>xi. Fibrotic intubation</li> <li>xii. Trans tracheal jet ventilation</li> <li>xiii. Needle cricothyrotomy</li> </ol>
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- xiv. Surgical cricothyrotomy
- xv. Airway resistance -multiple levels
- xvi. Right main stem intubation
- xvii. Stomach distention

**Airway Complications:**

- i. Tongue fallback
- ii. Tongue edema

**Breathing Features:**

- i. Simulated spontaneous breathing
- ii. Bilateral and unilateral chest rise and fall
- iii. Normal and abnormal breath sounds
- iv. Lung auscultation sites: Posterior and anterior sites
- v. Oxygen saturation and waveform

**Breathing Complications**

- i. Cyanosis
- ii. Needle thoracentesis – bi-lateral
- iii. Unilateral & Bilateral chest movement
- iv. Chest tube insertion – bilateral

**Cardiac Features:**

- i. Extensive ECG library
- ii. Heart sounds
- iii. ECG rhythm monitoring (4 wire)
- iv. 12 lead ECG display

**Circulation Features:**

- i. BP measured manually by auscultation of Korotkoff sounds**
- ii. Carotid, femoral, radial pulses synchronized with ECG**
- iii. Pulse strength variable with BP**
- iv. Pulse Palpation is detected & logged**

**Vascular Access**

- i. IV access on arm**
- ii. Intraosseous access on tibia**

**CPR:**

- i. Compliant with 2015 Guidelines**

		<ul style="list-style-type: none"> <li>ii. CPR compressions generate palpable pulses, blood pressure wave form, and ECG artefacts</li> <li>iii. Realistic compression depth and resistance</li> <li>iv. Detection of depth, release and frequency of compressions</li> </ul> <p><b>Eyes:</b></p> <ul style="list-style-type: none"> <li>i. Manually set to: Open, closed and partially open</li> <li>ii. Set of interchangeable pupils</li> </ul> <p><b>Other Features:</b></p> <ul style="list-style-type: none"> <li>i. Foley catheterization without urine output</li> <li>ii. Patient Voice</li> <li>iii. Pre-recorded sounds</li> <li>iv. Custom sounds</li> <li>v.</li> <li>vi. Instructor can simulate patient’s voice wirelessly</li> </ul> <p>Simulated Patient Monitor should have following features ECG, SpO2,CO2,ABP,CVP,ICP, ,PH, PTC, PAP, PCWP ,NIBP ,TOF , Cardiac Output, Temperature, 12 Lead ECG Display</p> <p><b><u>Ultrasound</u></b></p> <ul style="list-style-type: none"> <li>i. Ultrasound module should be integrated with the stimulator for diagnosis and pathological differentiation.</li> <li>ii. Ultrasound machine will be provided with efast protocol, Critical care RUSH Protocol.</li> <li>iii. USG should be compatible with mannequin</li> </ul>
2	SIMU00 <u>2</u>	<p><b><u>SPECIFICATION FOR ENDOTRACHEAL INTUBATION TRAINER</u></b></p> <p><b>Teaching Goals – Airways, intubation, ventilation &amp; suction technique learnings</b></p> <p><b>Procedures</b></p> <ul style="list-style-type: none"> <li>1. Intubation Procedures <ul style="list-style-type: none"> <li>a. Tracheal (oral and nasal)</li> <li>b. Pharyngeal (oral and nasal)</li> <li>c. Esophageal</li> <li>d. Bronchial (available with optional bronchial tree)</li> </ul> </li> <li>2. The manikin must be able to provide realistic and complete training in all intubation procedures tracheal-oral and nasal and the use of the Laryngeal Mask Airway and Combitube.</li> </ul> <p><b><u>Anatomy –</u></b></p>

		<ol style="list-style-type: none"> <li>3. The manikin must provide realistic anatomy, nostrils. Lips, teeth, tongue, Pharynx-oral and nasal, larynx with glottis opening, vallecular, arytenoids, Vocal cords, sub glottis cricoid ring, trachea, including carina lungs, Esophagus and stomach.</li> <li>4. The manikin must provide realistic head positioning. Neck flexion, extension and rotation, head lift and jaw move ability.</li> <li>5. The manikin must provide realistic complications as, laryngospasm, vomiting, and with excessive laryngoscope pressure on teeth will produce and audio signal</li> <li>6. The manikin must provide realistic checking for proper tube placement with visual inspection of lung expansion during ventilation, and auscultation of breathing sounds. A separate model for demonstration airway anatomy shall be provided.</li> <li>7. The manikin must establish and maintain an open airway by head tilt, chin lift, neck lift and jaw thrust.</li> <li>8. The manikin should permit realistic practice in lung ventilation, also with the use of non-invasive equipment.</li> <li>9. The manikin must provide the possibilities for practical training in clearing the obstructed airway by suctioning liquid foreign matter from, oral cavity, orator nasopharynx, oro- or naos trachea, via end tracheal tube. Gastric drainage may also be practiced.</li> </ol>
3	<u><b>SIMU003</b></u>	<p><b><u>SPECIFICATION FOR TRACHEOSTOMY MANNEQUIN</u></b></p> <ul style="list-style-type: none"> <li>• Manikin should be designed for practising needle and surgical cricothyrotomy Skills.</li> <li>• Manikin should have anatomically accurate landmarks for site training</li> <li>• Should have replaceable neck skin and interchangeable tracheas facilitate realistic simulation of needle and surgical cricothyrotomy procedures.</li> <li>• The Manikin should be mounted on the base</li> </ul>
4	<u><b>SIMU004</b></u>	<p><b><u>SPECIFICATION FOR MANNEQUIN CRANIUM</u></b></p> <ul style="list-style-type: none"> <li>• <b>The skull model should be composed of two parts: the cranium and the mandible.</b></li> <li>• <b>Should be light weight and durable.</b></li> </ul>
5	<u><b>SIMU005</b></u>	<p><b><u>SPECIFICATION FOR Spinal MANNEQUIN</u></b></p> <ul style="list-style-type: none"> <li>• <b>Vertebral spine model should be with squama occipitalis and pelvis.</b></li> <li>• <b>The vertebral column shall be mounted flexibly to demonstrate natural movements and pathological changes in the human spine.</b></li> <li>• <b>The spine model should be on a detachable stand</b></li> </ul>
6	<u><b>SIMU006</b></u>	<p><b><u>SPECIFICATION FOR AUDIO VISUAL RECORDING AND EDITING HARDWARE AND SOFTWARE</u></b></p> <ol style="list-style-type: none"> <li>i. <b>The system should be an integrated debriefing solution that captures and records audio and video of simulation</b></li> </ol>

		<p>and other learning activities</p> <p>ii. Each simulation action to be recorded, studied, replayed and logged to give instructor and learners every opportunity to evaluate each learning experience completely.</p> <p>The system should offer –</p> <p>i. High quality performance feedback for effective learning</p> <p>ii. Easy-to-use audio and video set-up and control</p> <p>iii. Time stamped and searchable event log</p> <p>iv. Annotation and assessments</p> <p>v. Multiple camera options available</p> <p>vi. Camera and microphone with base system</p> <p>vii. Additional hardware offered to expand system as needed</p> <p>viii. Software control of IP (Internet Protocol) cameras</p> <p>ix. Instructors to score simulations anon individual and group actions</p> <p>x. Instructors to add comments and annotations</p> <p>xi. Identification of actions associated with individual learners</p> <p>xii. Four HD camera inputs simultaneously</p> <p>xiii. Digital IP, analog, and USB cameras</p> <p>xiv. Software driven pan-tilt-zoom camera control</p> <p>xv. One digital audio input</p>
7	<p><u>SIMU007</u></p>	<p><b><u>SPECIFICATION FOR ENDOVASCULAR SIMULATOR</u></b></p> <p>Endovascular Simulator for Conducting Peripheral Arterial Intervention</p> <p>The endovascular simulator should have the following modules:</p> <p><b>1. ENDOVASCULAR BASIC SKILLS</b></p> <p><b>Peripheral Angiography</b></p> <ul style="list-style-type: none"> <li>• Understanding peripheral vascular anatomies</li> <li>• Choosing an appropriate puncture site</li> <li>• Selection of equipment: introducers, wires and catheters</li> <li>• Handling flush catheters for none-selective angiography</li> <li>• Utilizing the angiosuite equipment and c-arm in an optimal way</li> <li>• Navigating tortuous anatomies, stenotic arteries and ostia</li> <li>• Understand techniques for crossing the aortic bifurcation.</li> </ul>

- Responding to changes in vital signs and hemodynamic
- Location and identification of lesions.

## **2. EMERGENCY INTERVENTION MODULES**

### **Vascular Trauma Management:**

- Selection of appropriate clinical devices
- Correct location of REBOA balloon placement (zones I-III)
- Tactile feedback for placement and inflation guidance for REBOA
- REBOA with or without fluoroscopy guidance
- Aortic occlusion implementation
- Embolic material choice and access technique
- Tips and tricks on how to avoid embolization of non-target vessels
- Preserve circulation in adjacent vessel branches
- Logistics to hemorrhage control
- Usage of REBOA during hemorrhage control.
- Avoiding vaso-spasms in small vessels.

## **3. AORTIC INTERVENTION MODULES**

### **EVAR**

- Controlled advancement of graft system into the aorta
- Graft placement in relation to branch vessels
- Careful and appropriate deployment of graft
- Cannulation of the contra lateral leg.
- Completion angiogram to assess outcome.
- Embolization of internal iliac artery with vascular plugs or coils
- Management of endoleaks
- Management of ruptured aneurysms (rAAA)

### **TEVAR**

- Planning and sizing for different stent graft systems
- Controlled advancement of graft system into the aorta
- Graft placement in relation to branch vessels
- Blood pressure control during deployment.
- Careful and appropriate deployment of the devices
- Dealing with short landing zones
- Completion of post treatment angiogram to assess outcome
- Avoiding and managing endoleaks
- Treatment of aortic dissection, thoracic aortic injury (TAI) and ruptured aneurysms (rTAA)

## **4. ILIAC Intervention & SFA Intervention**

- Choosing the appropriate type of approach.
- Combinations of access strategies
- Navigating the iliac arteries, SFA and aortic bifurcation
- Angiographic review prior to treatment.
- Navigation of the wire through the lesion.
- Correct positioning of the wire to provide stability.
- Assessing the need for pre-dilatation and associated risks
- Selection of balloon, balloon expandable stent or self-expanding stent.
- Careful and appropriate placement of balloon or stent.
- Post-treatment angiogram.

## **5. BELOW THE KNEE INTERVENTION**

- Selection of appropriate tools for recanalization.
- Review of angiography prior to treatment.
- Amendment of the procedure plan and inventory requirements.
- Exchange of 0.035", 0.018" and 0.014" guide wire platforms
- Navigating the wire through on occluded lesion.
- Wire positioning to provide sufficient stability.
- Relationship between wire and catheter.
- Controlled advancement of PTA balloon and eventually stents into the lesions.
- Completion of post treatment angiogram to assess outcome.
- Appropriate withdrawal and removal of devices from the leg.
- PTA and optional bailout stenting in case of failure.
- Maintaining the position of the EPD throughout the procedure.
- Assessing the need for pre-dilatation and associated risks.
- Careful release and post-dilatation of the self-expanding stent
- Administration of medication to handle complications
- Completion of post treatment angiogram
- Retrieval of the embolic protection device.

## **RENAL INTERVENTION**

- Matching tools and access site to anatomical challengers
- Determining optimal view for interpretation, tool measurement and treatment.
- Rapid exchange and over the wire techniques
- Learning sage manipulations of tools in the renal arteries.
- Wire navigation through lesion and stable positioning.
- Selection of appropriate PTA balloons and stents.
- Controlled advancement of stent or balloon into the lesion.
- Managing challenging cases such a tight, long, ostial or tortuous lesions.
- Completion of post treatment angiogram.
- Discussion on basic angiography setup and equipment.
- Treatment planning based on patient scenarios
- Introduction to the endovascular tools used.
- Teaching effective c-arm and fluoroscopy utilization.
- Acquisition of technical and manipulation skills.
- Understanding the procedure of renal intervention.
- Discussions of troubleshooting and complication

		<p><b>Neurovascular Intervention</b></p> <ul style="list-style-type: none"> <li>• Carotid Intervention</li> <li>• Cerebral Intervention</li> <li>• Brain aneurysm</li> <li>• Intracranial Vascular Disorder</li> <li>• Vascular mal infirmities</li> <li>• Venous Sinus thrombosis</li> <li>• Stroke.</li> </ul>
8	<u><b>SIMU008</b></u>	<p><b><u>SPECIFICATION FOR OPERATING MICROSCOPE (INSTRUCTION MODEL)</u></b></p> <ol style="list-style-type: none"> <li>1. Should have apochromatic optics</li> <li>2. Should have 5 step magnification</li> <li>3. Should have working distance of objective lens F = 200mm</li> <li>4. Eye piece should be minimum 10x or 12.5x wide</li> <li>5. Should have XY coupling</li> <li>6. Should have red flex switching in/out facility</li> <li>7. Should have 45 degree binocular with converging optics</li> <li>8. Should have total magnification from at least 4.5x to 22x</li> <li>9. Should have field of view from at least 15mm to 50mm</li> <li>10. Should have cold light coaxial illumination by fiber optic light guide</li> <li>11. Should have tools free design for stand-by bulb change over and for failed bulb replacement.</li> <li>12. Should have heat absorbing and UV filters.</li> <li>13. Should be floor-standing type with fibre wheels with brake.</li> <li>14. Should have a minimum vertical stroke of 400mm</li> <li>15. Should have rust free stand.</li> <li>16. Should be operated in 200-240 Vac 50/60 Hz input supply.</li> <li>17. Should have safety certificate from a competent authority CE / FDA (US) / STQC CB certificate / STQC S certificate or valid detailed electrical and functional safety test report from ERTL. Copy of the certificate / test report shall be produced along with the technical bid</li> </ol>
9	<u><b>SIMU009</b></u>	<p><b><u>SPECIFICATION FOR ENDOSCOPE</u></b></p> <ol style="list-style-type: none"> <li><b>i. The system should be fully computerised and interactive.</b></li> <li><b>ii. Should have PC with latest Intel i7 and Virtual Reality simulation processor with remote access.</b></li> <li><b>iii. Should have a stainless steel support 130cm L x 57cm W x 175cm H</b></li> <li><b>iv. Should have a 24” Flat LCD touch screen with a movable arm</b></li> <li><b>v. Should have a double foot switch</b></li> <li><b>vi. Should have a mannequin with mouth and buttock for performing upper/lower GI Procedures.</b></li> <li><b>vii. The system should be equipped with a reliable high end</b></li> </ol>



**technological Haptic (force feedback) to provide realistic sensation that mimic the look and feel of an actual procedure.**

- viii. Should have adapted original true to life actual endoscope for upper/lower GI procedures.**
- ix. Should have adapted original true to life actual endoscope for ERCP /EUS procedures**
- x. The system should have over 100 and above tasks & cases and the following modules :**

**GI ENDOSCOPY SIMULATION MODULE:**

- Should have at least four designated tasks aimed at optimizing the acquisition of basic GI endoscopy capabilities.
- GI Endoscopy Fundamental Skills Training Module:
- Should provide a comprehensive solution to learning and training in Flexible Endoscopy Skills, for both Surgery and Gastroenterology.
- Should incorporate at least 9 skills task covering navigation, mucosal evaluation, targeting, retro flexion.

**Colonoscopy Module:**

- Should have at least 20 virtual patient cases to enable performance of a complete survey of the lower GI tract with an authentic forward viewing videoendoscope.
- Trainees should encounter true to life situations such as intestinal looping, complex colon anatomies, patient discomfort, and be able to practice therapeutic procedures such as biopsy and polypectomy.

**Gastrosocopy Module:**

- Should have at least 20 virtual patient cases to offer a safe environment to perform a complete survey of the upper GI tract with a forward viewing video endoscope.
- Trainee should identify typical lesions in a variety of upper GI anatomies and pathologies, and perform diagnostic or therapeutic procedures according to his clinical judgment.

**Gastric Emergency Bleeding Module:**

- Should have at least 10 virtual emergency bleeding cases to enable trainees encounter emergencies of the upper GI tract.
- The module should offer practice in both diagnostic stage of bleeding lesions and therapeutic procedures.
- Should have various accessories for treatment of bleeding pathologies, such as spray catheter, a bipolar coagulation, an injection needle and a cold snare for clot removal

**Flexible Sigmoidoscopy Module**

- Should have at least ten virtual cases to enable practice of Flexible Sigmoidoscopy and biopsy techniques on difficult and unusual anatomies and pathologies.

- Should enable Realistic anatomy of the lower GI tract for complete Sigmoidoscopy training including examination of the anus, rectum, sigmoid and descending colon, retro in the distal rectum for complete examination.
- Should help trainees improve their decision-making skills, identify pathologies and make appropriate recommendations based on findings.

#### **ERCPC Module:**

- Should have at least eighteen virtual patient cases.
- The module should feature simultaneous displays of both endoscopic and fluoroscopic views, as well as a wide variety of accessories to perform cannulation and therapeutic procedures.
- The module should enable realistic environment of the upper GI tract to enable complete training tool of this challenging procedure.
- Trainee should gain practice in papilla cannulation, fluoroscopic understanding of the biliary tree and pancreatic duct, sphincterotomy, stricture dilation and stone extraction and stent deployment.
- Should have Variety of endoscopic instruments incorporated such as sphincterotome, needle knife, guide wire, stents, balloons and basket.

#### **ENDOSCOPY ULTRASONOGRAPHY MODULE**

- Should offer systematic and didactic tasks, designed to train endoscopic ultrasound performance, identifying over 30 significant anatomical landmarks.
- Should have separate education module and task module.
- Should have both linear and radial ultrasound.

#### **EMR/ESD Module**

- Should provide a complete virtual patient environment featuring realistic anatomy and physiology, while including complication management as an integral part of the procedure.
- Endoscopic Mucosal Resection (EMR) simulation, should offer practice of Injection-assisted polypectomy for various pathological lesions, while using Common injection materials, snaring devices and different complication treatments.
- The module should allow practice of lesion diagnosis, using on-demand optical endoscopic imaging technique.
- Should have patient management including moderate sedation
- Endoscopic Sub mucosal Dissection (ESD) simulations should offer practice of lesion border marking, circumferential incision and full sub mucosal dissection skills, all using common cautery devices with proper working modes.
- The system should be ISO / CE certified.
- Should have designated cyberscopy navigation tasks to improve eyehand coordination and navigational skills.
- The simulator should have an unrestricted patient environment.
- Should offer a choice of aids enhancing 3D and anatomical perception such as external 3D Map.
- Should have a 3D map for the ease of users to learn and understand the anatomy better.

		<ul style="list-style-type: none"> <li>• Should support the trainees’ performance with real time guidance, comments and patient safety alerts.</li> <li>• The performance assessment should be most advanced with benchmark setting depending on the user level.</li> <li>• Should incorporate electric tools such as electrocautery probe.</li> <li>• Fluoroscopic view should be available on ERCP Modules.</li> <li>• Should facilitate web based simulator curricula management system, providing the optimal solution for administration of users, Curricula design, Pre- preparation with didactic learning, Simulation, Reporting, and assessment remotely.</li> <li>• Should have ready to use designed Curricula from famous institutes.</li> <li>• Should have a facility to access, assign, evaluate and administer the data of users remotely.</li> <li>• Should have 35 and above validations studies.</li> <li>• Should be upgradable with modules Endoscopy mucosal resection (EMR) and Endoscopy sub mucosal resection.</li> </ul>
10	<p><b><u>SIMU010</u></b></p>	<p><b><u>SPECIFICATION FOR USG SIMULATOR</u></b></p> <p><b>Teaching Goal –</b></p> <ul style="list-style-type: none"> <li>• The USG simulator should provide training Solution to simplify ultrasound education by providing integrated didactic instruction, hands-on training, and Knowledge assessment</li> <li>• USG simulator should resemble a portable ultrasound simulator and allows instructor to control when, where, and how students learn ultrasonography.</li> <li>• Simulator should enable instructors to deliver consistent and uniform training to large numbers of users in a proven-effective way.</li> <li>• Simulator should provide an equally robust method of assessing and documenting ultrasound proficiency in learners.</li> </ul> <p><b>PATIENT CASES</b></p> <ul style="list-style-type: none"> <li>• The Simulator should contain broad spectrum of normal and pathologic Conditions.</li> <li>• The simulator should allow to scan real patient-based cases and develop Psychomotor skills</li> </ul> <p><b><u>TEACHING METHODOLOGY</u></b></p> <ul style="list-style-type: none"> <li>• Simulator should provide immediate expert instruction and probe positioning</li> <li>• Guidance with each case and scanning window.</li> <li>• should be instructor control as well as self-directive and integrates didactic</li> <li>• Courses, hands-on training, and knowledge assessment in an effective, easy- to use, and engaging way.</li> </ul> <p><b>Should allow teaching modules like</b></p> <ol style="list-style-type: none"> <li>1) Anatomy &amp; Physiology</li> <li>2) Advance clinical module</li> <li>3) Core clinical module</li> </ol>

		4) Procedure module
11	<u>SIMU011</u>	<p><b><u>Laparoscopic Simulator</u></b></p> <ul style="list-style-type: none"> <li>• The system should be fully computerised and interactive.</li> <li>• Should have PC and virtual reality simulation processor</li> <li>• Should have 24" flat LCD touch screen</li> <li>• Should have elevation mechanism for height adjustment</li> <li>• Should have foot switch for electrosurgical coagulation</li> <li>• Should have high performance force feedback with three (3) degrees of freedom</li> <li>• Should have tool tracking with five(5) degrees of freedom</li> <li>• Should be High performance and precision</li> <li>• Should have a variety of optical angles :: 0 , 30 and 45</li> <li>• Should have adapted instrument handles (graspers)</li> <li>• Should have interchangeable suturing handles with suturing module</li> <li>• The system should be able to provide comprehensive training in the field of laparoscopic surgery.</li> <li>• The system should feature built in tools for training group and individual trainee.</li> <li>• The system should contain at least 17 modules.</li> <li>• The system should have all parameters to evaluate trainee.</li> </ul> <p><b><u>Virtual operating Room Setting – VR-OR</u></b></p> <ul style="list-style-type: none"> <li>• The system should have a setting of the fully immersive environment of the Virtual Operating Room using Oculus headset.</li> <li>• The Virtual Operating Room setting should allow performance of the procedure in a virtual operating room with a virtual team, equipment and operating room sounds.</li> </ul> <ul style="list-style-type: none"> <li>• The system should have the following practice modules : <ul style="list-style-type: none"> <li>○ Basic Laparoscopic Skills including: <ul style="list-style-type: none"> <li>▪ Camera manipulation</li> <li>▪ Eye-Hand Coordination</li> <li>▪ Clip Applying</li> <li>▪ Clipping and Grasping</li> <li>▪ Two handed Maneuvers</li> <li>▪ Cutting</li> <li>▪ Electrocautery</li> <li>▪ Translocation of Objects</li> </ul> </li> <li>○ <b>Basic and advanced suturing skills</b></li> <li>○ The advanced Suturing Module should include, Backhand technique, U-stitch, Curved suture line, Anastomosis, Slanted plane Suture line, Upper plane suturing and Hexagonal suture line.</li> <li>○ The Basic and advance Suturing, should include, detailed interactive tutorials to enable independent training.</li> <li>○ <b>Essential skills Module</b></li> <li>○ Should have Essential tasks similar to Fundamentals of Laparoscopic</li> </ul> </li> </ul>

tutorials to enable independent training.

- Should have Essential tasks similar to Fundamentals of Laparoscopic Skills developed by SAGES.
- The system should enable trainee to provide full simulation of the following procedures :

**Lap Cholecystectomy skills and full procedures–**

- Should have procedural task module to guide the trainee through the critical steps involved in the Lap Chole procedure with dispaed guidance.
- Should haveat least 6 virtual patient cases with 16 anatomical variations enabling hands on in an unrestricted anatomical environment.
- Should have task Expert’s Critical View of Safety’s which allows to perform a dissection of the cystic duct and artery using a reference of the expert’s dissection.

**Lap Incisional Hernia –**

- Should have at least 6 easy to difficult hernia repair cases.
- Should feature cases of hernia removal using simulated tools common to real surgeries such as the Harmonic Scalpel.
- The module should have simulated mesh, fixation devices, touch screen capabilities with external body view.

**Lap Inguinal Hernia Module-**

- The Module should provide virtual-reality hands-on simulation for Inguinal Hernia.
- The module should allow users to practice the key steps of the Laparoscopic TransabdominalPreperitoneal (TAPP) Inguinal Hernia repair for the right defect.
- Should include anatomy identification, peritoneal incision and dissection and , sac reduction steps.

**Lap Appendectomy skills and full procedures–**

- Should have a complete laparoscopic appendectomy curriculum.
- Should includeat least two guided tasks, three guided techniques and four complete procedures with different levels of appendix inflammation and anatomical variations.
- Anatomy variations should include: retrocecal appendix, regular appendix, gangrenous pre-ileal appendix and perforated appendix.
- Should include ability for complete exposure, dissection and clipping ofthe appendicular artery.
- Should be able teaching surgical residents the basic steps of an appendectomy procedure and its techniques.

- Should include
  - i) Inspection of the abdominal cavity,
  - ii) Pus removal,
  - iii) Exposure of the retrocecal appendix,
  - iv) Cecum mobilization,
  - v) Division of the mesoappendix,
  - vi) Control of the appendicular artery, division and extraction of the appendix and irrigation and inspection of the abdominal cavity.
- Trainees should be able to learn to prevent and manage potential complications such as perforation of the appendix and injury to the surrounding structure.
- Should have anatomical 3d Map and real life video.
- Should include “Proctor Mode”- capability enabling real-time modification of mesoappendix blunt dissection difficulty.
- Should include “Proctor Mode “– capability enabling real-time trigger of injury to the appendicular artery and bleeding control.
- Should include “Protector Mode – capability that allows to enable/disable a specific tool from the tools menu in real time.
- The Appendectomy module should be validated.

#### **Cholangiography Module-**

- The module should feature realistic visualization of the Cholangiogram procedures.
- Should have didactic step by step guidance to lead the trainee through this complicated procedure.

#### **Lap Full Gastric Bypass–**

- Should help the trainee to understand and practice to complete a gastric bypass in its four primary steps.
  - i) Creation of the gastric pouch,
  - ii) Measurement and division of the jejunum,
  - iii) Gastrojejunal anastomosis
  - iv) Enteroenterostomy anastomosis with 2 anatomical positions

#### **Lap Sigmoidectomy and full procedures–**

- Has to be full procedure module
- TheModule should help the user to identify anatomy such as the ureter, IMA, IMV, gonadal,
- Should include
  - i) incise the peritoneum,
  - ii) dissect in the correct tissue planes,
  - iii) expose and dissect vessels, and
  - iv) perform distal division and anastomosis.

#### **Lap Nephrectomy and full procedures–**

- Has to e full procedure module
- Trainee should be able to identify the anatomy such as the ureter,

- gonadal vein, renal vein, renal artery,
- Should allow trainee to decide about the adrenal gland and
  - i) perform the Hilar Dissection
  - ii) Perform the Colon Mobilization with a complete instrument set.
  - iii) Perform mobilization of the upper pole

**Lap Gyn – salpingostomy, oophrectomy etc. procedures – Simulators for Lap myomectomy, endometriosis, coloposuspension.**

- Should have at least 7 cases to encounter a range of patient pathologies and gain experience with various techniques and surgical instruments.
  - Should Include variety of complications and emergency situations.
    - i) bleeding at the implantation site,
    - ii) a ruptured fallopian tube and
    - iii) a blood filled abdominal cavity.
  - Should allow trainee to make decision in a unrestricted clinical environment to perform
    - i) Salpingostomy
    - ii) Salpingectomy
    - iii) Salpingo-Oophorectomy
    - iv) Tubal sterilization
- The module has to be validated in clinical studies

**Lap Hysterectomy skills and full procedures –**

- Should offer complete hysterectomy procedure including
  - i) Ureter exposure,
  - ii) Uterine manipulation,
  - iii) Superior pedicles division,
  - iv) Bladder mobilization,
  - v) Exposure and division of the uterine artery, and
  - vi) Colpotomy.
- The course of the ureters may be visualized transperitoneally, or through a retroperitoneal dissection
- Should have an option to allow the infrared illumination of the ureters for ureters’s course identification.
- Should have an option to perform, hysterectomy with or without a preservation of the fallopian tubes and ovaries.
- Should include the option of ischemic appearance of the uterus after the division of the uterine vessels.
- Should include an option of “Proctor Mode” –capability enabling real-time triggering of injuries to the vessels and bleeding control.
- Should include an option of “Proctor Mode” – capability that allows to enable/disable a specific tool from the tools menu in real time.

**Vaginal Cuff Suturing–**

- The module should provide a unique opportunity to practice vaginal

- cuff suturing using unidirectional and bidirectional Barbed Sutures.
- Should include a variety of potential complications such as suspected injury to the bladder, ureters, colon and iliac vessels.
- Should offer both visually guided suturing techniques and free-hand training

**Obstetrics**

**Simulators for:**

- ➔ **Pelvic floor Anatomy**
- ➔ **Devasculaization in pph**
- ➔ **Instrumental Deliveries**
- ➔ **C Section**
- ➔ **Pelvic examination normal and abnormal**
- ➔ **3D birthing simulator**

**Lap Lobectomy Module-**

- The module should provide a unique opportunity to practice the complicated steps.
    - i) The hilar dissection
    - ii) Dissection and division of the blood vessels and bronchus, fissures division in order to separate the upper right lobe.
  - Should simulate complications such as
    - i) injury to the pericardium, pulmonary artery and vein branches, phrenic nerve and azygos vein
  - Virtual cases Should have
    - i) 3D anatomy atlas
    - ii) step by step tutorials,
    - iii) experts video
    - iv) A fully guided case
    - v) Breathing and pulse movements
  - Should have objective performance metrics that enhance the learning experience.
  - The system should have options of selecting various hand instruments.
  - Should have a “Proctor Mode” – capability enabling real-time modification of the tissue stiffness during blunt dissection.
  - Should have “Proctor Mode” – Capability enabling real-time trigger of mild and major injuries to the vessels and injuries control.
  - Should have “Proctor Mode” – capability that allows to enabling /disabling a specific tool from the tools menu in real time.
- The system processing unit should be latest generation.
  - The system should be CE and ISO certified.
  - 3D anatomical maps should be available on certain modules for better understanding of anatomy.
  - Should have short video of real-life procedures for better understanding of



the trainee.

- Should have custom building of training courses for learners of all levels.
- Should have viewing and exporting of performances reports to facilitates learning, analysis of training effect, showing the learning curve, research and future certification.
  
- Should have technical Skills Reporting and Assessment :
  - Time and economy of movements.
  - Safety and electrosurgical dissection.
  - Procedural errors.
  - Procedure specific checklist items relating to knowledge of procedures, handling of instruments and many more.
- Should facilitate web based simulator curricula management system, providing the optimal solution for administration of users, Curricula design, Pre-preparation with didactic learning, Simulation and Reporting and assessment remotely.
- Should have ready to use designed Curricula from famous institutes.
- Should have a facility to access, assign, evaluate and administer the data of users remotely.
- Should have ready to use simulator based courses.
- Should have implementation of the ACS/APDS curricular.
- The system should have an option to be fully integrated online.
- The system should have an option for online centralized management of one or more simulators
- The system should have an option for online user and group registration and administration
- The system should have an option for online access to didactics content: descriptions, objectives module books, tutorials and real life videos.
- The system should have an option for online access to ready to use course
- The system should have an option for online access to the performance reports.
- The system should have an option for online export of reports to files.
- The system should have an option for online capability to create and modify benchmarks.

#### **Team Training**

- Should have Team Training capability in Hysterectomy Module allowed by a plug and play connection of the portable system to the haptic **Lap Simulator**.
- Should have Camera Assistant capabilities in LAP Chole and Appendectomy modules allowed by a plug and play connection of the portable LAP Express system to the haptic LAP Mentor.
- The camera control in the Team Training case in the Hysterectomy module should be easily switched between users during a procedure.
- The camera control in the Camera Assistant setting in the LAP Chole Full Procedures module should be easily switched between users during a procedure.
- In the Hysterectomy Team Training case 4 trainees should be able to work simultaneously on the same case : the main surgeon operates 2 tools. The first assistant operates the third assisting tool and the second assistant manipulates

		<p>the uterine manipulator.</p> <ul style="list-style-type: none"> <li>Should offer Nurse Tool Control capability (in Appendectomy, Hysterectomy and Lobectomy modules)</li> </ul> <p><b><u>Curricula</u></b></p> <ul style="list-style-type: none"> <li>Should offer an implementation of the validated Proficiency Based Curriculum for the Cholecystectomy module</li> <li>Should offer an implementation of the SORTED Bariatric Curriculum</li> <li>Should offer an implementation of THE Patient Safety Course ofr OR Nurses</li> <li>Should offer an implementation of the 1<sup>st</sup> MSMU (I.M.Sechenov First Moscow State Medical University) Scoring course.</li> <li>Should offer an implementation of the LSS (Laparoscopic Surgical Skills) Curriculum – Grade 1 –Level1.</li> </ul> <p><b><u>Associations</u></b></p> <ul style="list-style-type: none"> <li>Should be used exclusively for the simulation based assessment for the European Laparoscopic Skills Curriculum (LSS). Enclosed by EAES.</li> </ul>
12	<u>SIMU012</u>	<p><b>NEONATAL MANIKIN:</b> Specification for neonatal CPR &amp; Nursing Manikin:</p> <ol style="list-style-type: none"> <li>The model should be used for practicing cardiopulmonary resuscitation (CPR) for a neonate</li> <li>The model should be realistic and look like a real term neonate</li> <li>The model should provide thoracic movement by positive pressure ventilation with the help of bag valve mask.</li> <li>Should have following features: <ol style="list-style-type: none"> <li>Airway Management <ol style="list-style-type: none"> <li>Intubation Head - realistic life-size intubation trainer with a flexible tongue, arytenoid cartilage, epiglottis, vocal cords, trachea, esophagus, and simulated lungs</li> <li>Positioning the newborn to simulate opening the airway via head tilt, chin lift or jaw thrust</li> <li>Should provide thoracic movement by positive pressure ventilation with the help of selfinflating bag or Flow-inflating bag or T-Piece Resuscitator)</li> <li>Airway management by using laryngeal mask and intubation tube</li> <li>Should allow one-sided lung intubation</li> <li>Orogastric &amp; nasogastric tube insertion</li> <li>Oral/Nasal endotracheal intubation.</li> <li>Stomach distension (when ET is misplaced)</li> <li>Suctioning (of the nares, nasopharynx, oral cavity and lungs via an ET tube)</li> <li>Meconium module for suction removal (optional)</li> <li>Realistic rise and fall of the chest</li> <li>Bilateral and unilateral (with main stem intubation) chest rise and</li> </ol> </li> </ol> </li> </ol>

fall with mechanical ventilation

XIII. Practice suctioning exercises

B. Cardiac Features

- I. Manual chest compression at appropriate depth (1/3 AP) and force
- II. Umbilical pulse – variable via manual pulse bulb
- III. Determination of heart rate by measuring the beat at the base of umbilical cord.
- IV. Practice neonatal CPR with both i.e. two- thumb encircling technique & two finger alternate compression method should possible.

C. Circulation Features

- I. Umbilical vein/artery catheterization via patent umbilicus
  - II. Intraosseous access in left and right lower leg, tibial tuberosity and medial malleolus. iii. Intravenous access. iv. Manual palpable pulses: radial, brachial, femoral, Posterior tibial
5. The model should be made of silicon rubber and should have similar appearance like human full term neonate.
  6. It should be made of high quality material that ensure long life.
  7. The head should be rotatable and extendable.
  8. It should be maintenance free
  9. The equipment should be USFDA or European CE approved
  10. Should allow the user to practice insertion of laryngeal mask airway in a neonate (Optional).

**2. Pediatrics Intubating Mannequin**

Technical Specification –

1. Model of Seamless Limbs, pediatric patient for practicing various procedures.
2. It should have seamless upper and lower limbs and should be able to be positioned in sitting, and sleeping position as in real patients
3. Should have capability of practicing airway suction, oral, nasal or tracheostomy suction.
4. Practice of percutaneous Endoscopic Gastrostomy (PEG) care.
5. Feeding tube management should be possible.
6. Catheterization practice of male and female.
7. Intravenous line insertion, intraosseous needle insertion, central venous line

insertion and arterial line insertion should be possible.

8. The equipment should be USFDA or European CE approved

### **3. Pediatric Auscultation Trainer**

Technical Specification of –

1. It should be an infant simulator which simulates vital signs monitoring the entire body.
2. This simulator should reproduce 4 different crying sounds by four different buttons.
3. Trainees should be able to check heart and breathing sounds creating hands-on training of measurement and monitoring close to those of the actual clinical environment.
4. It should be made of Silicone rubber to produce an extremely realistic texture.
5. The model should have control box to simulate various parameters.
6. Monitoring of the head area (palpation of skull molding) should include locating the anterior fontanel, posterior fontanel, sagittal suture, and coronal suture.
7. A rectal thermometry should be used for temperature measurement of rectum.
8. Vital sign auscultation should include Heart sounds (100 to 180 beats/minute) and Breath sounds (30 to 80 breaths/minute).
9. Visual inspection should include thoraco abdominal breathing and respiration rate.
10. The sound of crying should be heard coming from the mouth.
11. The heart rate and respiratory rate should display digitally over a normal range, and the infant's status should easily be set by turning a rotary dial.
12. There should be an external speaker on the control box to make Heart sounds and breathing sound audible to persons in the nearby environment.
13. The sounds should be set independently, so that balance can be adjusted to match the status settings.
14. The equipment should be USFDA or European CE approved.

### **SPECIFICATIONS FOR ADVANCED LIFE SUPPORT SIMULATOR**

#### **1.CHILD:**

Facilitate interactive training of life-saving skills and responds to clinical intervention by instructor control and/or pre-programmed scenarios for effective practice of diagnosis and treatment of a patient.

1. Should have spontaneous breathing, airway control, voice, sounds, ECG, and other clinical features,
2. Should be fully functional pediatric simulator.
3. Allows observation and recognition of most vital signs, which enables the instructor to assess the student's skills based on a realistic clinical situation.

**Features**

- Realistic airway for simulation of difficult airway management, oral, and nasal intubation
- Observable breathing
- Cardiac features, including defibrillation and cardioversion
- Eyes with interchangeable pupils (normal, dilated, or constricted)
- Convulsions to simulate seizures
- Chest compressions
- Vascular access
- Normal and abnormal heart, breath, and bowel sounds
- Automatic Simulation Control based on pre-programmed and validated patient scenarios

Simulations should run autonomously using scenarios on the Pad or with (PC). The development of the patient's condition is pre-programmed and automatically responds according to the participant interventions.

**General Clinical Features****Airway Features**

The airway is anatomically connects to the trachea. The airway can be manipulated by:

- Head tilt/chin lift
- Jaw thrust with articulated jaw
- Cricoid pressure and manipulation
- Suctioning (oral and nasopharyngeal)

The Simulator may be ventilated by normal and emergency methods:

- Bag-mask ventilation
- Orotracheal intubation
- Nasotracheal intubation

Simulator features may be configured to present various airway scenarios:

- Tongue edema - normal, medium, maximum levels
- Lungs open or closed

**Breathing Features**

Should simulate spontaneous breathing with visible chest rise and fall and variable breathing rates.

- Bilateral chest rise and fall with spontaneous breathing
- Unilateral chest rise and fall with right mainstem intubation during ventilations
- Unilateral and bilateral lung sounds
- Normal and abnormal breath sounds
- Variable respiration rate (0-60 breaths per minute)

- Anterior auscultation sites (4)

The left lung and right lung can be closed independently or together to create a partial or complete airway obstruction.

### **Circulatory Features**

Cardiac:

- Extensive ECG library, pulses from 0-200
- Heart sounds - anterior location (1)
- ECG rhythm monitoring (4-connector, 3-lead ECG)
- 12-lead ECG display
- Pacing
- Defibrillation and cardioversion using live defibrillators

Blood pressure and pulses

- BP measured manually by auscultation of korotkoff sounds
- Bilateral carotid pulse
- Central pulses can be set to normal, weak, absent
- Radial/Brachial pulses can be set to normal, weak, absent
- Carotid, brachial and radial pulses synchronized with ECG
- Pulse strength variable with BP
- Pulse palpation is detected and logged.

### **CPR Features**

- Compliant with AHA 2015 Guidelines
- Compressions generate palpable pulses, blood pressure wave form, and ECG artifacts
- Realistic compression depth and resistance
- Detection of depth and rate of compressions

### **Vascular Features**

IV Access:

IV access is possible on the right arm and hand. The IV arm can be set up for IV insertion, infusion, and bolus into:

- Peripheral veins of the forearm
- Antecubital fossa and dorsum of the hand

Intraosseous Access (IO):

Access for IO infusion is possible:

- Tibial Tuberosity (right)
- Medial Malleolus

### **2. Infant:**

Should be operated and controlled by PC, mobile or Pad . should run in Automatic Mode, with pre-programmed scenarios, or Manual Mode. vital signs can be displayed on the optional patient monitor.

#### Airway Features

Anatomically accurate, realistic airway  
Bag-Valve-Mask ventilation  
Intubation (Orotracheal and nasotracheal, Fiberoptic, Right mainstem)  
Insertion (LMA, Endotracheal tube, Gastric Tube)  
Sellick Maneuver  
Variable lung compliance and airway resistance  
Tongue edema  
Laryngospasm  
Pharyngeal swelling (partial and complete)  
Stomach distention

#### Breathing Features

Spontaneous breathing with variable rate, depth and regularity  
Bilateral and unilateral chest rise and fall  
Normal and abnormal breath sounds  
Oxygen saturation on simulated Patient Monitor  
Breathing pattern (normal, retraction, see-saw)  
Pneumothorax  
Unilateral thoracentesis midclavicular  
Unilateral chest tube insertion midaxillary

#### Cardiovascular Features

ECG monitoring and library  
QCPR  
Blood pressure (BP)  
Pulse strength variable with BP  
Pulses (bilateral brachial and bilateral femoral)  
Live defibrillation using ShockLink

#### Vascular Features

Unilateral IV access antecubital fossae, dorsum of the hand  
Bilateral IV access long saphenous vein  
Bilateral tibial IO insertion  
IV bolus and infusion administration

#### Other Features

Eyes - open, closed, and 50%  
Normal, blown and constricted pupils  
Capillary refill (Left palm, proximal sternum)  
Fontanelle (normal or bulging)  
Seizure - head, eyes and arms  
Sounds - vocal, lung, heart  
Liver palpation  
Cyanosis  
Arm movement and tone

**New Born:**

**Airway**

- Anatomically accurate, realistic airway
- Lung recruitment manoeuvre
- Oral and nasal ET tube insertion
- I-gel Insertion
- Sellick manoeuvre
- Positive-pressure ventilation
- Right mainstem intubation
- Suctioning
- Variable lung resistance
- Gastric tube insertion

**Breathing/Respirations**

- Spontaneous breathing, with variable rate
- Bilateral and unilateral chest rise and fall with mechanical ventilation
- Normal and abnormal breath sounds
- Simulated oxygen saturation
- Pneumothorax
- Unilateral chest movement with mechanical ventilation
- Unilateral breath sounds
- Unilateral needle thoracentesis, mid-axillary

**Cardiovascular System**

- CPR
- Extensive ECG Library with rates from 10 - 300 bpm
- Simulated ECG monitoring via 3-lead monitor

**Vascular Access**

- Patent, cuttable umbilicus with venous and arterial access for bolus or infusion
- Simulated blood flashback upon cannulation
- Bilateral IO access

**Other Features**

- Rotating (selectable) pupils - normal, blown and constricted
- Moving limbs: limp, tone, spontaneous motion and seizures

**Circulation**

- Palpable umbilical pulse
- Bilateral brachial pulse
- Central cyanosis

**Sounds**

- Vocal: Grunt breathing, crying, hiccups and others
- Lung: Normal, stridor, pneumonia and others
- Heart: Normal, diastolic murmur, systolic murmur and others
- Anterior lung sounds



13.	<u>SIMU013</u>	<b>HUMAN FETUS REPLICAS</b>	<b>FEATURES:</b> <ul style="list-style-type: none"> <li>• Human fetus replicas should be very close to real</li> <li>• Human fetus replicas should have actual size showing external development and growth of the fetus for corresponding gestational age.</li> <li>• Human fetus replica should be available to represent different gestation period – 5<sup>th</sup> and 7<sup>th</sup> month.</li> <li>• Human fetus replicas should have features, color and skin texture simulating Indian babies.</li> <li>• Human fetus replicas should be feasible for teaching external development and growth of the fetus.</li> <li>• Human fetus replicas should be flexible enough to fit inside the abdominal palpation mannequin while demonstrating the Leopold maneuver during pregnancy.</li> </ul>
14	<u>SIMU014</u>	<b>ABDOMINAL PALPATION MANNEQUIN FOR LEOPOLD MANEUVERS DURING PREGNANCY</b>	<b>FEATURES:</b> <ul style="list-style-type: none"> <li>• The abdominal palpation mannequin should have full size adult female lower torso (abdomen and pelvis)</li> <li>• The abdominal palpation mannequin should have a one piece full term fetus with palpable fontanelles, spine, shoulders, elbows and knees.</li> <li>• The abdominal palpation mannequins should have upper and lower inflatable cushions with independent inflating devices in the abdominal part of the mannequin.</li> <li>• Lower cushion when inflated should raise the fetus to desired position.</li> <li>• Upper cushion when inflated should create a firm abdomen as in the ninth month of pregnancy.</li> <li>• The abdominal mannequin should be able accommodate the fetus in vertex, breech or transverse positions.</li> <li>• The abdominal mannequin should have the facility to accommodate the fetus of different gestational age, demonstrate vertex/Breech/transverse position delivery and attach the perineum to demonstrate the episiotomy repair.</li> </ul>
15	<u>SIMU015</u>	<b>DICTAPHONE</b>	<ul style="list-style-type: none"> <li>• Dictaphone should be able to give a simulation of fetal heart sound.</li> <li>• Dictaphone should have 4GB Digital Voice Recorder.</li> <li>• Dictaphone voice recorder should work for recording digitally all the voices and reproduce it with good</li> </ul>

			<p>quality sound.</p> <ul style="list-style-type: none"> <li>• Dictaphone should have different recording setting.</li> <li>• Dictaphone should have digital pitch control/facility for different Scene Selection.</li> <li>• Dictaphone should have Intelligent Noise Cut/Low Cut Filter/ Digital VOR.</li> <li>• Dictaphone should have Linear PCM/ MP3/WMA /AAC Playback.</li> <li>• Dictaphone should have Track Mark.</li> </ul>
16	<u>SIMU016</u>	<b>AUTOCLAVE</b>	<ul style="list-style-type: none"> <li>• The autoclave should be of 20 L capacity and must be Stand-Alone Bench Top autoclave.</li> <li>• The autoclave should have automatic single door, self-sealing with high quality silicone gasket.</li> <li>• The autoclave should have chamber diameter 25 cm, depth 45 cm.</li> <li>• The autoclave should have pre-set automatic cycles for unwrapped instruments, wrapped Instruments / packs;</li> <li>• The autoclave should have slow exhaust and drying cycles.</li> <li>• The autoclave should have two automatic programs, which are 2.2. bar at 134°C and 1.1 bar at 121°C</li> <li>• The autoclave should be fitted with 5 L water reservoir – could be manually filled, automatic for at least 10 cycles.</li> <li>• The autoclave should have auto power shutoff upon completion of each cycle.</li> <li>• The autoclave should have 3 removable shelves, instrument trays and double safety door locking device.</li> <li>• The autoclave should have safety feature to protect against over pressure and over temperature.</li> <li>• The autoclave should have audible and visual alert upon cycle interruption or completion.</li> <li>• The autoclave should have unwrapped cycle time: cold 30 min, hot 20 min.</li> <li>• The autoclave should have control panel with alpha-numerical display and cycle indicators.</li> <li>• The autoclave should have air vents situated laterally and need to be manually closed after sterilization.</li> <li>• TST (temperature steam time) control spot must be self-adhesives and the color changes must be irreversible when sterilized, attachable to steam sterilizing containers.</li> <li>• Power requirement for the autoclave must be 220 V / 50 Hz single phase.</li> <li>• Power consumption of autoclave not more than 3000 W.</li> <li>• The autoclave should have device safety certification according CE 93 / 42, FDA 510k or equivalent.</li> </ul>

			<ul style="list-style-type: none"> <li>• <b>Additional accessories.</b> Set of 3 matching instrument baskets. Set of 3 matching sterilizing drums. 3 roll of sterilization indicator TST control spots. 3 boxes paper sheet and crepe for sterilization pack. 3 rolls of adhesive tape for sterilization pack. 10 spare set of fuses 1 box TST (temperature steam time) control spot, (box of 500 TST), plus 1 record sheet 2 Stainless steel cylindrical sterilizing drum of 165mm diameter     Thickness steel : 0.8mm     Diameter, approx: 165 mm     Height, approx : 100 mm</li> </ul>
17	<u>SIMU017</u>	<b>HAND HELD UTERUS MANNEQUIN</b>	<ul style="list-style-type: none"> <li>• Hand held uterus model should show coronal section of uterus, ovaries and fimbriae</li> <li>• Hand held uterus model should have a clear plastic window permitting easy view of IUD</li> <li>• Hand held uterus model should permit easy demo of inserting and removing of IUD</li> <li>• Hand held uterus model should be made of PVC</li> </ul>
18	<u>SIMU018</u>	<b>FEMALE LOWER TORSO MANNEQUIN WITH NORMAL AND POSTPARTUM UTERUS AND ACCESSORIES</b>	<ul style="list-style-type: none"> <li>• Should have full size adult female lower torso (abdomen and pelvis) with relevant internal landmarks.</li> <li>• Should have palpable normal and pregnant uteri with realistically sculpted and anatomically accurate ovaries and fimbriae.</li> <li>• Should have accessories to enhance visual recognition of normal and abnormal cervixes</li> <li>• Should have removable introits.</li> <li>• Should have “screw” design between Uterus and Cervix for fast and easy change-out</li> <li>• Should be suitable for vaginal examination, including insertion of speculum, uterine sounding and IUD insertion &amp; removal</li> <li>• Should have distal end of vagina to facilitate introduction of a female condom</li> <li>• Should have features to demonstrate Minilaparotomy (both interval and postpartum tubal occlusion). Manual vacuum aspiration (MVA), visual recognition of normal and abnormal cervixes, 49 hours postpartum fundal massage.</li> <li>• <b>Additional Accessories:</b> <ul style="list-style-type: none"> <li>○ One anteverted uterus</li> <li>○ One retroverted parous uterus</li> <li>○ Five normal cervixes</li> <li>○ Four abnormal cervixes</li> <li>○ Ten fallopian tubes</li> <li>○ 2 X 48 hour postpartum uterus with</li> </ul> </li> </ul>

			<p>'duckbill' cervix and fallopian tubes</p> <ul style="list-style-type: none"> <li>○ 2 Extra locking pins and thin cervical locking ring</li> </ul>
19	<u>SIMU019</u>	<p><b>INTRANATAL CARE</b></p> <p><b>1/ CHILD BIRTH SIMULATOR ALONG WITH ATTACHMENT FOR CERVICAL DILATATION (CLOSED OS, 4CM, 6CM, 8CM, FULLY DILATED CERVIX</b></p>	<ul style="list-style-type: none"> <li>• Should have hemi pelvis of adult female with anatomical landmarks like pelvic cavity, spine etc.</li> <li>• Should have manual mechanical birthing system to enable the user to control the rotation and speed of fetus delivery etc.</li> <li>• Should have articulating fetal baby with adaptors to fit with manual birthing system</li> <li>• Should be versatile to change the position of the fetus during the process of birth including descend, flexion, extension, internal and external rotation, restitution.</li> <li>• Should have features for training normal and breech deliveries.</li> <li>• Should have inflatable cushions to lift fetus for Leopold maneuver during pregnancy</li> <li>• Shall have adaptive birth canal to demonstrate dystocia and deal with its relief</li> <li>• Should have features to demonstrate cord prolapse</li> <li>• Shall allow demonstration and practice of placenta previa</li> <li>• Should have cervical dilatation attachment for closed Os, 4cm, 6cm, 8cm and fully dilated cervix.</li> <li>• Should have features simulating / represent conditions of the cervix and vagina prior to labor, during labor and at birth in a primigravid woman</li> <li>• <b>Additional accessories :-</b> <ul style="list-style-type: none"> <li>• One detachable padded stomach cover</li> <li>• Detachable Manual mechanical birthing system with mounting flange</li> <li>• One fully articulating fetal baby with adaptors to fit with manual birthing system</li> <li>• One elevating cushion for Leopold maneuvers</li> <li>• 6 detachable dilating cervices</li> <li>• 6 detachable vulva</li> <li>• 9 vulvar inserts</li> <li>• 6 placentas</li> <li>• 9 umbilical cords</li> <li>• <b>One 48 hour postpartum uterine activity assembly</b></li> <li>• One postpartum perineal insert</li> <li>• Reusable episiotomy repair module (set of 3 including medial tears, mediolateral tears and standard mediolateral episiotomy)</li> <li>• 2 sets cervical dilatation attachment for closed Os, 4cm, 6cm, 8cm and fully dilated cervix .</li> </ul> </li> </ul>

20	<u>SIMU020</u>	<b>POSTPARTUM SUTURING TRAINER</b>	<ul style="list-style-type: none"> <li>• Should enable use of standard needle holder with “00” or “000” chromic sutures</li> <li>• Should have three separate modules for episiotomy</li> <li>• Should have one model featuring medial episiotomy with tears in labia-minora</li> <li>• Should have one model featuring mediolateral episiotomy with peri-urethral tears</li> <li>• Should have one model featuring standard episiotomy</li> <li>• Should have features to attach with child birth simulator</li> <li>• <b>Additional accessories:-</b></li> <li>• 3 Nos. of medial episiotomy model with tears in labio-minora</li> <li>• 3 Nos. of mediolateral episiotomy model with peri-urethral tears</li> <li>• 3 Nos. of mediolateral episiotomy model</li> </ul>
21	<u>SIMU021</u>	<b>MANNEQUIN FOR SIMULATION AND MANAGEMENT OF PPH</b>	<ul style="list-style-type: none"> <li>• The Mannequin should be highly realistic for simulating postpartum hemorrhage</li> <li>• The Mannequin should have features to manually control the amount of bleeding and the conditions of uterus</li> <li>• The mannequins should have features to control dilation of the cervix</li> <li>• <b>The mannequins should have the following:-</b></li> <li>• Full terms fetus with placenta and umbilical cord</li> <li>• Blood concentrated</li> <li>• Fluid collection tray</li> <li>• Fluid drain</li> <li>• Urine catheter</li> <li>• - 20 ml syringe</li> <li>• - Carrying Bag</li> <li>• <b>The mannequin should have features for training the following:</b></li> <li>• Urine catheterization</li> <li>• Normal delivery</li> <li>• Complete and Incomplete placenta delivery</li> <li>• Oxytocin Injection</li> <li>• Controlled cord traction</li> <li>• Bi-manual compression of uterus</li> </ul>
22	<u>SIMU022</u>	<b>INTRAMUSCULAR INJECTION TRAINING MANNEQUIN</b>	<ul style="list-style-type: none"> <li>• Intramuscular injection training mannequin should have a life like human lower torso with Intramuscular injection site in upper outer quadrant of palpable gluteal region on both side (left and right)</li> <li>• Intramuscular injection training mannequin should have facility for detaching the upper portion and illustrating the anatomical details of posterior side of the simulator, deep anatomic structure of the head of</li> </ul>

			<p>femur, the shaft of femur, the sciatic nerve, deep layers of muscles, major blood vessels and aspect of bony pelvis underlying the gluteus muscles – at any one side – by hand painted or molded as relevant</p> <ul style="list-style-type: none"> <li>• Intramuscular injection training mannequin should have intramuscular injection in ventrogluteal site below iliac crest on both side (left and right)</li> <li>• Intramuscular injection training mannequin should have facility for giving intramuscular injection in lateral thigh at any one side.</li> </ul>
23	<u>SIMU023</u>	<b>ADULT CPR MANNEQUIN</b>	<ul style="list-style-type: none"> <li>• Adult CPR mannequin should have feathers to demonstrate opening of airway, head tilt/chin lift and jaw thrust techniques</li> <li>• Adult CPR mannequin should have disposable airways</li> <li>• Adult CPR mannequin should have removable, reusable faces</li> <li>• Adult CPR mannequin should have “clicker” which confirms correct compression depth</li> <li>• Adult CPR mannequin should have compression spring for consistent resistance</li> <li>• Adult CPR mannequin should have weight: 3.9 kg and H X W X D : 25 IN X 8.5 IN X 13.5 IN</li> </ul> <p><b>ADDITIONAL ACCESSORIES</b></p> <ul style="list-style-type: none"> <li>• 6 Reusable mannequin faces</li> <li>• 6 airways</li> <li>• 50 mannequin wipes</li> </ul>
24	<u>SIMU024</u>	<b>ADULT IV TRAINING ARM KIT</b>	<ul style="list-style-type: none"> <li>• Adult IV training arm should have full adult arm with clenched fist and tourniquet position.</li> <li>• Adult IV Training arm should be suitable for practicing IV injections</li> <li>• Adult IV training arm should have prominent venous network</li> <li>• Adult IV training arm should have anatomically located venous grooves, fitted with soft latex tubes, closely simulating consistency of human veins</li> <li>• Adult IV training arm must have a pliable translucent latex skin stretched over venous network</li> <li>• Adult IV training arm should have cephalic, basilic, antecubital, radial, and ulnar veins</li> <li>• Adult IV training arm should have veins in dorsum of hand</li> <li>• Adult IV training arm should features ‘realistic pop’ as needle enters vein</li> <li>• Adult IV training arms must have a Smoked Lucite base with metal stand</li> <li>• Adult IV training arms vein and skin must be replaceable</li> </ul>

			<p><b>Additional accessories:</b></p> <ul style="list-style-type: none"> <li>• 4 set of kit with simulated blood concentrate, pressure bulb, blood dispensing bag</li> <li>• 4 sets of spare arm skin for future replacement</li> </ul>
25	<u>SIMU025</u>	<b>FEMALE CATHETERIZATION MANNEQUIN</b>	<ul style="list-style-type: none"> <li>• Female catheterization mannequin should have adult female lower torso with realistic vulval area and urethral opening</li> <li>• Female catheterization mannequin must have internal bladder reservoir for standard catheterization exercises</li> <li>• Female catheterization mannequin should have external reservoir bladder mounted on Smoked Lucite with metal stand</li> <li>• Female catheterization mannequin should have modular urethral valve to prevent fluid leakage</li> <li>• Female catheterization mannequin should have inflatable internal bag to lift the bladder anteriority.</li> <li>• Female catheterization mannequin should have detachable upper skin to show bladder, inflatable bag and foam</li> <li>• Female catheterization mannequin should show connection to bladder and vagina with locking ring and rectum</li> <li>• Female catheterization mannequin should have removable urinary assembly</li> <li>• <b>Additional Accessories:</b></li> <li>• 6 spare bladder tanks</li> <li>• 6 urethra inserts</li> </ul>
26	<u>SIMU026</u>	<b>ESSENTIAL NEW BORN CARE &amp; RESUSCITATION MANNEQUIN</b>	<ul style="list-style-type: none"> <li>• The newborn mannequin should be realistic in size and appearance and also natural weight,. Feel and touch</li> <li>• Newborn mannequin should have features for training essential new born care (ENBC) and new born resuscitation</li> <li>• Newborn mannequin should facilitate effective bag and mask ventilation, chest must rise only with correct technique</li> </ul> <p><b>The newborn mannequin should include the following:</b></p> <ul style="list-style-type: none"> <li>• Squeeze bulbs for simulation of cord pulsation, spontaneous breathing, auscultation of heart sound and cry</li> </ul> <p><b>Additional Accessories:</b></p> <ul style="list-style-type: none"> <li>• 4 External umbilical cords and 6 umbilical ties</li> <li>• 4 baby sheets or towels</li> <li>• 2 Head cap</li> <li>• 2 Neonatal mucus sucker (easy to open, clean, autoclavable and reusable)</li> </ul>

			<ul style="list-style-type: none"> <li>• 2 Training Stethoscope</li> </ul>
27	<u>SIMU027</u>	<b>NORMAL NEW BORN BABY MANNEQUINE (KMC)</b>	<ul style="list-style-type: none"> <li>• Newborn mannequin should weigh close to normal newborn (2.5-3.5kgs)</li> <li>• Newborn mannequin should have actual size showing external development and growth</li> <li>• Newborn mannequin should be close to normal skin colour, texture and bony feel</li> <li>• Newborn mannequin should have moving head, flexible upper and lower limbs</li> <li>• Newborn mannequin should have baby cap, nappy, mittens, socks, Kangaroo Mother Care (KMC) dress/shawl/bed sheet (for wrapping the mother and baby)</li> </ul>
28	<u>SIMU028</u>	<b>DIGITAL THERMOMETER (MEASUREMENT OF BODY TEMPERATURE)</b>	<ul style="list-style-type: none"> <li>• Digital thermometer should have:-</li> <li>• Celsius scale switchable to Fahrenheit</li> <li>• Measurement range between : + / - 0.10°C between 32°C to 43°C</li> <li>• Liquid crystal display, easy to read</li> <li>• Features to support manual switch on, with beep sound after the temperature is measured and Auto switch off after 10 seconds</li> <li>• Water proof and easy to clean</li> <li>• Battery powered</li> <li>• Low battery indicator</li> <li>• Certification of safety according CE 93/ 42,FDA 510k or equivalent</li> <li>• Must be safe to use, no glass, no mercury</li> </ul> <p><b>ADDITIONAL ACCESSORIES:-</b></p> <ul style="list-style-type: none"> <li>• 5X Nickel Cadmium battery</li> </ul>
29	<u>SIMU029</u>	<b>ELECTRICAL SUCTION MACHINE</b>	<ul style="list-style-type: none"> <li>• Should have housing and Base : MS Powder coated cabinet with Stainless Steel top</li> <li>• Should be mounted on bearing castor wheels with brakes, completed with pressure regulator ½ H.P motor</li> <li>• Should have capacity : 0-700 mm Hg + 10 regulatable, flutter free vacuum control knob (pressure regulator), 25 Ltrs / min</li> <li>• Should have single rotary vane pump or other equivalent pump</li> <li>• Should have wide mouthed 2 X 2 Liter jar (Polycarbonate) with self-sealing bungs and mechanical over flow safety device. Should have 8 mm ID x 2 meter tubing (Non-collapsible tube with adaptors – PVC)</li> <li>• Should have burden type 6.5cm Diameter 0-760 mm Hg calibration Vacuum Gauge</li> <li>• Power should be 230- V, 50 Hz, 2 + Amps, 200 Watts, (110 V on request)</li> </ul>



			<ul style="list-style-type: none"> <li>• Should have Noise level : 150 dB A + 3</li> <li>• Should have 43 X 30 X 68 cms dimensions and weight of 27 Kgs</li> <li>• Should have safety certification according CE 93 / 42, FDA 510K or equivalent</li> </ul>
30	<u>SIMU030</u>	<b>PEADIATRIC IV ARM KIT</b>	<ul style="list-style-type: none"> <li>• Should have pediatric arm</li> <li>• Should have replacement skin and multi- vein system</li> <li>• Should have simulated blood pack</li> <li>• Should have blood bag with tubing and connector</li> <li>• Should have clamp and hook</li> <li>• Should have 5 syringes</li> <li>• Should have mannequin lubricant</li> </ul> <p>Additional Accessories:</p> <ul style="list-style-type: none"> <li>• 5 – replacement skin</li> <li>• 5 – multi – vein system</li> <li>• 3 - simulated blood pack</li> <li>• 3 – blood bag with tubingand connector</li> <li>• 3 – lubricant</li> </ul>
31	<u>SIMU031</u>	<b>OG TUBE INSERTION MANNEQUIN</b>	<ul style="list-style-type: none"> <li>• Should look like 0-8 weeks old and Caucasian colour.</li> <li>• Should have soft and flexible and replaceable face skin and upper body skin</li> <li>• Should offer NG exercises to demonstrate tube feeding and gastric suction</li> <li>• Placing NP /OP tubes must be possible</li> <li>• Should have markings for ear canal</li> <li>• Should have removable internal parts</li> </ul>
32	<u>SIMU032</u>	<b>GLUCOMETER</b>	<ul style="list-style-type: none"> <li>• Should have direct reading and photometry determination of total amount of glucose in whole Blood</li> <li>• Should have ‘switch on’ and auto ‘switch off’</li> <li>• Should indicate automatic zero while switching on the glucometer.</li> <li>• Should have automatic indication showing readiness for receiving of blood through strips</li> <li>• Should have dual wavelength measurement, 660 and 840 nm</li> <li>• Sample size: one drop of whole blood on disposable cuvette</li> <li>• Measuring time, approximately: 10 seconds</li> <li>• Measuring range, approximately: 0 to 20 mmol / L or 0 to 400 mg / dl</li> <li>• Should have accuracy equivalent to laboratory spectrophotometer</li> <li>• Should have large LED display readable in low light working situations, display cover durable plastic display in mmol / L and mg / dl, easy switch between both measurements</li> <li>• Memory for at least 100 previous tests</li> </ul>

			<ul style="list-style-type: none"> <li>• Device is safety certified according CE 93 / 42, FDA 510k or equivalent</li> <li>• Additional Accessories: <ul style="list-style-type: none"> <li>• 10 x box of 100 cuvettes</li> <li>• 10 x box of 100 sterile lancets</li> <li>• 3 x cleaning set</li> <li>• 3 x calibration set</li> <li>• 3 x dust cover</li> <li>• 3 x storing case</li> <li>• 10 x spare set of fuses</li> </ul> </li> </ul>
33	<u>SIMU033</u>	<b>OXYGEN ADMINISTRATION (OXYGEN CONCENTRATOR)</b>	<ul style="list-style-type: none"> <li>• Oxygen concentrator to provide oxygen from atmospheric air</li> <li>• Oxygen concentration measured at the flow meter by oxygen sensing device (OSD)</li> <li>• Sound level &lt; 15 dB</li> <li>• Superior grade of molecular sieve with an indicator /sensor on the device indicating whether the sieve is functional or non-functional</li> <li>• Maintenance free rotary proppet valve.</li> <li>• Oxygen purity approximately 90%,</li> <li>• Oxygen output approximately: 0-5 LPM,</li> <li>• pressure approximately: 8 psi</li> <li>• Double outlet or flow splitter for oxygen delivery</li> <li>• Oxygen tube of 2 m length with facility for nebulization with tube &amp; mask; with two humidifier bottles and two cabinet filters</li> <li>• Power requirements: 220 V / 50 Hz</li> <li>• Power consumption: 450 W</li> <li>• Device is safety certified according CE 93 / 42, FDA 510k or equivalent</li> <li>* Additional Accessories: <ul style="list-style-type: none"> <li>• 3 spare set of tubing</li> <li>• 3 spare set of internal and external filters (bacterial);</li> <li>• 10 spare set of fuses</li> </ul> </li> </ul>
34	<u>SIMU034</u>	<b>OXYGEN ADMINISTRATION (OXYGEN HOOD)</b>	<ul style="list-style-type: none"> <li>• Should have round shape 3 – Medium size, approximately height 22 cm, diameter 25 cm, diameter 20 cm</li> <li>• Should be autoclavable polycarbonate</li> <li>• Should be free from trauma of silicon neck, with adjustment flap</li> <li>• Should have bilateral oxygen nozzle</li> <li>• Should have oxygen tube of 2 m length with one spare set of tubing</li> <li>• Should have port for oxygen sensor</li> <li>• Device is safety certified according CE 93 / 42 , FDA 510k or equivalent</li> </ul>
35	<u>SIMU035</u>	<b>NEBULIZER</b>	<ul style="list-style-type: none"> <li>• Should be easy to use and clean</li> <li>• Should deliver inhaled steroids, antibiotics and all</li> </ul>

			<p>commonly prescribed broncho-dilators</p> <ul style="list-style-type: none"> <li>• Should have features to respond to breathing pattern i.e. to increase release of drug on inspiration and to decrease the wastage of drug on expiration</li> <li>• Should have mask with different size(for adult and pediatric)</li> <li>• Flow rate: 6 lpm rising up to 22 lpm on Inspiration</li> </ul> <p><b>Additional Accessories:-</b></p> <ul style="list-style-type: none"> <li>• 5 filters,</li> <li>• 10 masks (Each Size),</li> <li>• 10 mask and mouth piece</li> <li>• 5 replacement mesh</li> <li>• 5 set tubing</li> <li>• 2 AC/DC adapters,</li> <li>• 10 set of batteries and connector</li> </ul>
36	<u>SIMU036</u>	<b>MULTI DOSE INHALER WITH SPACER</b>	<ul style="list-style-type: none"> <li>• The spacer must be of 145 ml volume</li> <li>• The spacer should be 5-6" long and 2" diameter</li> <li>• The spacer should fit with the inhaler</li> <li>• It should have silicone one way valve to prevent exhaling air from entering the chamber</li> <li>• The spacer should be washable, could be sterilized and reusable</li> <li>• The spacer should be latex free</li> </ul>