JAMMU AND KASHMIR MEDICAL SUPPLIES CORPORATION LTD.
(Public Sector Undertaking of the Government of Jammu and Kashmir)
Corporate Head Office: Plot No. 58, Friends Colony Satyam Road Trikuta Nagar Jammu
Corporate Office: Opposite J&K Motor Garage Deptt near Hajj House Bemina Srinagar
Telephone: 0191-2478842; 191-3510489 (Jammu), 0194-2490662 (Srinagar)
email:mdjkmscl2@gmail.com; ismjkmscl2018@gmail.com**website**: www.jkmsclbusIness.com

E-BID FOR THE PROCUREMENT OF MACHINERY & EQUIPMENTS

(REFERENCE NO: NIT/JKMSCL/M&E/2023/587 DATED: 19/06/2023

LAST DATE OF SUBMISSION OF ONLINE BIDS: 25-07-2023 upto 1600 hrs

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

BIDDING DOCUMENT FOR PROCUMENT OFMACHINERY & EQUIPMENTS

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

Bid Submission Letter
(Declaration Form)

Sub: - Regarding Bid submission for **NIT/JKMSCL/M&E/2023/ 587** **DATED 19 -06-2023**

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

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

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

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

Dated Name and signature of bidder with seal

JKMSCL

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Tender No. NIT/JKMSCL/M&E/2023/ 587
Dated: 19/06/2023

NOTICE INVITING TENDER

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

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

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

Note: ***The bidders who opt to bid for multiple manufacturer shall have to provide complete details of each manufacturers in a systemic way covering all documents asked in Cover-A. Separate sheet shall have to be attached for every individual item.***

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BIDDING DOCUMENT FOR
Procurement of Machinery & Equipment

Tender No.NIT/JKMSCL/M&E/2023/587	**: 19-06-2023**
Date of publication of e-bid	: 19-06-2023
Start date and time for download of bid document	: 19-06-2023
Last date and time for download of bid document	: 25-07-2023 at 1600 hrs
Clarification start date	: 19-06-2023 at 1100 hrs
Clarification end date	: 04-07-2023 upto1400 hrs
Pre- bid conference	: **04-07- 2023 AT 11.00 A.M (at Corporate Office, Jammu/Srinagar)**
Start date and time for submission of online bids	: 19-06-2023 at 1500 hrs
Last date and time for submission of online bids	: 25-07-2023 at 1600 hrs
Date and time for online opening of technical bids	: 27-07-2023 at 1100 hrs
Cost of tender document	: Rs. 1000/-
Tender Processing charges	: Rs. 9000/-

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

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

Note: -

1. The bidder shall have to get themselves updated with the date & time fixed for Pre-bid as per the item list. After pre-bid meeting necessary changes in bid conditions shall be done with the recommendations of panel of technical experts drawn from the intending department after the approval of the competent authority. Bid should be submitted through e-portal www.jktenders.gov.in after pre-bid meeting including all the clarifications/ modifications/ amendments.
2. Corrigendum/addendum shall be the integral part of terms & conditions of bid which shall be duly signed and attached with the bid document by the bidder.
3. The JKMSCL is not bound to accept the lowest bid and may reject any/part thereof or all bids without assigning any reason thereof.
4. The bidders shall have to submit a **GST No. and valid 'GST'** clearance

certificate/returns submitted from the taxation department and the 'PAN' issued by income tax department.

5. It is clarified that the information required in bidding document should be submitted only in enclosed format bidding forms without any change or modification in its formats. Bids submitted with changed or modified annexure/ formats shall be rejected.
6. Information of award of contract shall be communicated to all participating bidders on the website www.jktenders.gov.in. www.jkmsclbuisness.com

Note: -

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

Important Note:

1. **No representation shall be allowed, accepted and entertained after the Pre-bid meeting (i.e upto 4.00 P.M of Pre-bid date). Bidders are requested to submit their queries/clarifications by or before the date fixed (mentioned above), so that the same can be discussed and clarified during the Pre-bid meeting.**
2. **Google Code for Prebid Conference** meet.google.com/wst-deau-aem
3. **Email id for prebid representations queries (if any)Prebid.jkmscl@gmail.com**

TABLE-1

S. No.	Item code	Name of the item	Average Annual turnover for last 03 years
1.	ME2350	Portable Isolation Unit for Kidney Transplant.	05 Crore
2.	ME2351	Robotic System for Urology	20 Crore
3.	ME2352	Dosimetry and QA TOOLS –Radiation Therapy Beam Analyzer	05 Crore
4	ME2353	Gel Card Incubator.	05 Crore
5	ME2354	Gel Card Centrifuge.	05 Crore
6	ME2355	Automatic Component Extractor.	05 Crore
7	ME2356	CTG Machine	05 Crore
8	ME2357	Full body UV Therapy for vitiligo and Psoriasis	05 Crore
9	ME2358	Co2 Fractional Laser	05 Crore
10	PAEDS15	Peritoneal Dialysis Unit	05 Crore
11	PAEDS24	Baloon Gun	05 Crore
12	PAEDS54	IFT (Inferential Therapy Equipment)	05 Crore
13	PAEDS57	Cold Light Source with Fiberoptic Cable for Transillumination	05 Crore
14	MA0722	Fluorescence Microscope	05 Crore
15	ONC21	LBC – Fully Automated system and reagent	05 Crore
16	ONC27	IHC Autostainer	05 Crore
17	OT01	Modular Operation Theatre	05 Crore
18	ME2360	DEEP TMS	05 Crore
19	ME2361	Pure Tome Audiometer	05 Crore
20	ME2361	Audiometer	02 Crore
21	ME2360	Impedance Audiometer	02 Crore
22	ME2362	Tracheosctomy Set	02 Crore
23	ME2363	Laryngoscopy, Oesphagoscopy and Bronchoscopy Set	02 Crore
24	ME2364	Otology	02 Crore
25	ME2365	Stapedectomy Set	02 Crore
26	ME2366	Otendoscope Telescope	02 crore
27	ME2367	Mechanical Hysteroscopic Tissue Removal (mHTR) System with fluid management system	05 crore.
28	ME0322	Virtual Bronchoscopic Navigation Real Time Navigation (VBN) with Fused Fluoscopy guidance/Archimedes.	05 crore
29	ME0422	Bronchoscopic Thermal Vapur Ablation	05 crore

The Average Annual Turn Over required for the above items pertaining to Group "Procurement of Machinery & Equipment" is mentioned above. Only the bid(s) falling

under the category as specified under Annual Turnover is accepted. The bid(s) not falling under the Annual Turnover clause shall be out rightly rejected. Only manufacturer(s) or Importer(s) fulfilling the turnover clause shall be eligible to participate the e.bid.

Note:

1. **The catalogues/brochures of the item shall be submitted along with the EMD in separate envelopes, prior to submission of online bids. The catalogues/brochures pertaining to the equipment information should be signed by the authorized signatory of the manufacturer.**
2. **No minimum quantity is guaranteed and the bidder shall not claim any compensation from the Jammu & Kashmir Medical Supplies Corporation Ltd.**

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 documesnt.

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

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

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

Managing Director
Jammu and Kashmir Medical Supplies Corporation Ltd

Section-I Instruction To Bidders (ITB)

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

Clause No.	Description
1.	Go through the terms and conditions, annexure and other forms of the document carefully and meticulously & get your digital signatures available for uploading.
2.	Bid form must conform the terms & conditions of the bid documents and **Technical Bid in Cover- 'A' & Financial Bid in Cover-'B' to be uploaded on** www.jktenders.gov.in**. The receipt for cost of tender, tender processing fee and catalogues of the quoted items shall be submitted in the office of JKMSCL atleast one day prior to submission of online bids.**
3.	It is expected from all bidders that CDR/FDR/BG in separate envelope shall be deposited with the authorised person of JKMSCL at reception against proper receipt from the concerned.
4.	Correspondences/Complaints lodged to JKMSCL should bear signature, name, I.D proof and mobile number of the complainant. Unauthenticated correspondence/complaints may not be acted upon. If any bidder intends to lodge a complaint or make a suggestion with regards to some bid condition, it shall be done in the Pre-bid conference, in the office of JKMSCL in writing. After the stipulated period as decided by the JKMSCL, no such complaint/ suggestion would normally be considered.
5	Certificates/Licenses/Documents which are required should be complete and updated. The bidder shall submit acceptance of terms and conditions of the tender document.
6	If there is any query in bid document/uploading process, bidder may contact JKMSCL office at Jammu/Srinagar during working hours i.e 1000 hrs to 1600 hrs on ph. 0191-2580842, 0194-2432008 or e-mail on gmkjkmscl1@gmail.com/ jkmsclepm@gmail.com / gmjjkmscl@gmail.com
7.	In case a bidder is given any assurance what so ever of being provided with any advantage in JKMSCL by anybody or if a bidder is directly or indirectly threatened of being put to some deliberate disadvantage in the bidding process & in the bidder's subsequent association/ working with JKMSCL, it is requested that the concerned must immediately inform about the same to the Managing Director, JKMSCL/G.M-J(Adm), JKMSCL in writing or through e-mail on gmjjkmscl@gmail.com. It is advised that evidence of such unfair activity of such person, if available, is produced along with the complaint, so that action can be taken against such a person(s) and that their details can be put on the website so that other bidders can be forewarned in this regard.

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

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

2. Qualification Criteria

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

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

1. Evaluation Criteria

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

Section IV: Bidding Forms

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(**Annexure I)**

On Firm's letter head

LIST OF ITEMS QUOTED IN THE BID

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

Seal & Signature
(Authorised Signatory)

Annexure II

(To be submitted on Firms' letter head)

Technical Bid Submission Sheet (Cover 'A')

Managing Director

Jammu & Kashmir Medical Supplies Corporation Ltd.
J&K

We, the undersigned, declare that:

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

S. No	Item	Particular	Manufacturer			
			M1	M2	M3	M4
1.	Bid security (as mentioned above)					
2.	Cost of Tender & Tender Processing charges					
3.	List of Items quoted by the Bidder mentioning name of manufacturer/ importer with make & model as per annexure.	**Annexure I**				

4	Copy of Catalogue of the Quoted product (self attested)					
5	Compliance Sheet for each equipment (self attested)					
6	Technical bid submission sheet duly filled	**Annexure II**				
7	Financial bid (To be uploaded in BOQ only)	**Annexure III**				
8	**Declaration for Latest Non Conviction, non blacklisting on non judicial Stamp paper of Rs 100 furnished by the Principal** Manufacturer / Sole Importer/ Indian Subsidiary as per proforma duly notarised.	**Annexure IV A**				
9	**Declaration for Latest Non Conviction, non blacklisting on non judicial Stamp paper of Rs 100 furnished by the Bidder** as per proforma duly notarised.	**Annexure IV B**				
10	Client Base on Letter Head of the Bidder / Manufacture/Indian Subsidiary of Principal Manufacturer with references of the supply orders, for any of the three years in last five years along with satisfactory performance certificate of minimum one installation **(Copies of reference supply orders and satisfactory performance certificate need to be attached)**	**Annexure V**				
11	**Authorisation from principal manufacturer / Importer** *(On the letterhead of Principal manufacturer / Sole Importer)* *In case authorization to the bidder is furnished by the Sole Importer/Indian Subsidiary, document confirming authorization from foreign Principal Manufacturer in favour of Indian Subsidiary / Sole Importer is to be submitted* ***(strictly as per annexure VI)***	**Annexure VI**				
12	Average Annual Turnover Statement for Last 3 financial Years of the Indian Subsidiary of Principal Manufacturer/ Sole Importer issued by Chartered Accountant/competent authority with UDIN (2018-19, 2019-20 and 2020-21). ***In case of foreign manufacturer the turnover of Indian Subsidiary/Sole Importer only shall be considered and not of the original manufacturer.***	**Annexure VII**				
13	Copies of Audited Balance sheet & profit loss account for last three financial years certified by Chartered Accountant of the Importer/ Indian Subsidiary for 2018-19, 2019-20 & 2020-21 with UDIN. ***In case of foreign manufacturer the balance sheets of Indian Subsidiary/Sole Importer only shall be considered***					
14	Nature of the Firm/Public Company / Private	**Annexure**				

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

Important Note

1. **The Bidders who opt to bid for multiple manufacturers shall have to provide complete details of each manufacturer in a systemic way, sequentially, covering all documents asked in Annexure "II".**
2. **Please Note the Annexure A"II" should be properly filled showing the page number when the asked document has been attached. All the documents attached with the technical bid should be properly page numbered.**

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

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

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

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

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

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

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

iv. In case, original manufacturer/direct importer wish to 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 AII duly filled shall need to be uploaded alongwith e.bid ; otherwise no representation in this matter shall be entertained in the later stage.

Annexure III

ITEM WISE FINANCIAL BID (BOQ)

For Uploading Rates of Equipment

Please read the amended BOQ as follows:

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

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

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

Note: -

1. The rate quote should be as per BOQ.
2. CGST, SGST or IGST should be separately shown in absolute amount only.
3. Rate should be quoted only for packing units as mentioned in the bid
4. No quantity or cash discounts should be offered.
5. Read all the terms & conditions before filling the Annexure III.
6. Please quote rates in absolute amount only.
7. Please quote rates per unit only
8. The bidder shall not under any circumstances quoted "Zero" anywhere in the BOQ.
9. Finalization of the rates shall be made on the basis of price quoted in BOQ
10. Custom duty, if applicable shall be indicated separately.
11. The final rates quoted at Column No. 13 shall be considered as final rates and shall be considered for evaluating financial bid. L1 rate shall be finalised on the basis rate and taxes as applicable.
12. **The price for evaluating L1 (as per BOQs) shall be decided on the basis of cumulative rates of Main item, Accessories (wherever asked) i.e cost of main item + cost of Accessories + Indian items = Total cost of equipment.**

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

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

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

(**<u>For Imported equipment)</u>**

100% payment shall be released against 20% Bank Guarantee valid for a period of 12 months, to be submitted by the bidder. The BG shall be released on successful installation of the Machinery

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

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

<u>Delivery Period</u> shall be 60 days for Indian Items and 90 days for Imported items.

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

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

Note: The L1 of the Instruments shall be ascertained as per the cumulative rates on complete set basis. No individual (instrument) L1 rates shall be considered. The bidders have to quote minimum 95% of the instruments for qualification in the complete set.

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

Annexure IV A

Declaration and Undertaking by the Bidder

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

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

   (b) I/We do hereby declare that our company/firm has been black listed/banned/debarred/convicted by..... (Name, Address of Govt./dept./State) and detailed information is as given below:

   (i) Cause of blacklisting/banning/debarring/conviction.
   (ii) For which item.....
   (iii) Period of black listing/banning/debarring/ conviction.
   (iv) Latest Status of black listing/banning/debarring/ conviction.

3. I/We hereby confirm that we have deposited all the GST/all applicable taxes as on date of submission of tender with the concerned authority/department. No GST/other taxes is due on the firm as on date of submission of tender.
4. I/we do hereby agree to the condition that JKMSCL may, if deemed fit go for the third party maintenance under Comprehensive equipment maintenance programme of Govt. of India.

VERIFICATION & DECLARATION

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

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

Place :-
Dated:-

Signature of the Deponent
Name :
Designation

Annexure IV B

Declaration of Manufacturer/Direct Importer/Indian Subsidiary

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

Date:_____ NIB No.:_____

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

I/we further declare that:-

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

VERIFICATION & DECLARATION

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

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

Place :-
Dated:-

Signature of the Deponent
Name :
Designation

Annexure V

Client Base (Item wise)

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

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

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

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

Place:
Date :

Signature of bidder with Seal.

Annexure VI

AUTHORISATION from principal manufacturer/importer/Indian Subsidiary

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

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

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

Name of items.....

Dear Sirs,

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

I/we further confirm that no supplier or firm or individual other than M/S..... *(Name of bidder firm),* is 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, as applicable as per bid conditions of contract, read with modifications/addendum, if any, in the general/special conditions of contract for the goods and services offered for supply by the above firm against this bid document.

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

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

Annexure VII

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

ANNUAL TURN OVER STATEMENT

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

It is further certified that the Annual Turnover Statement has been prepared strictly as per returns filed with Taxation Department for the year 1st year, 2nd year & 3rd year and shall be responsible, if any variation/discrepancy is found during evaluation /later stage.

Sl. No.	Financial Years	Turnover in Lakhs (Rs.)
1.	1st year	
2.	2nd year	
3.	3rd year	
	Total -	_____Lakhs

Average gross annual turnover _____Lakhs

Note :

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

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

(On Firm's letter head)

Memorandum of Appeal

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

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

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

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

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

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

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

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

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

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

Appellant's signature

Section V: Schedule of Supply

Table of Contents

Section V: Schedule of Supply

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

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

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

2.7	**Payment Terms (For items quoted in foreign currency)**
2.7.1	**<u>For Payment through Letter of Credit (for imported items only)</u>** ***100% payment shall be released against 20% Bank Guarantee valid for a period of 12 months, to be submitted by the bidder. The BG shall be released on successful installation of the Machinery.*** **Letter of credit would be opened subject to following additional conditions**:- 1. At site LC would be opened. 2. In case of supply through sea, LLOYD A level vessel would be used for shipment of supplies which should not be more than 15 years old. 3. Supplies shall be insured 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 product shall be comprehensively insured upto site of installation for all type of insurance.*** 6. ***The charges of the L.C charged by the Govt. shall be borne by the firm.*** **<u>For Indian items</u> :** Payment shall be made after successful installation and commissioning of the equipment duly certified by Head of the concerned department.
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 e uploaded along with e.bid.
2.7.4	No advance payments towards cost of items shall be made to the bidder.
2.7.5	If at any time during the period of contract, the price of bid items is reduced or brought down by any law or Act of the Central or State Government or by the bidder himself, the bidder shall be bound to inform Managing Director JKMSCL immediately about it. Purchasing authority shall be empowered to unilaterally effect such reduction as is necessary in rates in case the bidder fails to notify or fails to agree for such reduction of rates. In case this reduction of rates comes to the knowledge of JKMSCL in later stage, additional payment made w.e.f of the details of rates shall be charged from the firm with 1.5% monthly interest from the date/till rates have been reduced besides action as desired fit by JKMSCL which may be debarring/any other penalty as per penalty clause.
2.7.6	In case of any enhancement in taxes/duty due to notification of the Government after the date of submission of bids and during the bid period, the quantum of additional taxes/duty so levied shall be allowed to be charged extra as a separate item without any change in the basic price structure of the items approved under the bid. For claiming the additional cost on account of the increase in tax/ duty, the bidder should produce a letter from the concerned authorities for having paid additional tax/duty on the goods supplied to ordering authority and also must claim the same in the invoice separately. Similarly if there is any reduction in the rate of taxes/duty of items, as notified by the

	Government, after the date of submission of bid, the quantum of the price to the extent of reduction of taxes/duty of items will be deducted without any change in the basic price structure of the items approved under the bidder.
2.7.7	In case of successful bidder has been enjoying exemption on any criteria, such bidder will not be allowed to claim taxes/duty at later point of time during the tenure of contract, if the taxes/ duty become chargeable on goods manufactured due to any reason.
2.7.8	If there is any hindrance by the consignee to provide the required site for installation the part payment of equipment shall be made / decided by JKMSCL. In that case, the firm has to inform JKMSCL immediately.
2.8	**LIQUIDATED DAMAGES:**
2.8.1	The time specified for delivery in the bid form shall be deemed to be the essence of the contract a nd the successful bidder shall arrange supplies within the period on receipt of order from the purchasing officers.
2.8.2	In case of extension in the delivery period with liquidated damages, recovery of liquidated damages shall be made at the rate of 0.25% per day for every day of delay subject to maximum of 10%. **Rest of the terms and conditions of SPP with regard to penalty clause shall remained unchanged** Penalty shall not be imposed if claim with regard to any supply i.e. Drugs/Equipment is complete in all respects i.e. QC verification/Board verified etc. is not cleared by the JKMSCL within a period of 60 days
2.8.3	If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrances, he shall apply in writing to Managing Director JKMSCL, J&K, for the same immediately on occurrence of the hindrances but not after the stipulated date of completion of supply. The firms shall ensure extension of delivery period for delayed supplies. The payment shall only be released by corporation after sanction of extension in delivery period.
2.8.4	Delivery period may be extended with or without liquidated damages. If the delay in the supply of goods is on account of force majeure i.e., which is beyond the control of the bidder, the extension in delivery period may be granted without liquidated damage.
2.8.5	If the bidder is unable to complete the supply within the specified or extended period, the corporation shall be entitled to purchase the goods or any part thereof from elsewhere without notice to the bidder on his (i.e., bidders) account at his cost and risk, with the prior approval of Managing Director JKMSCL, J&K. The bidder shall be liable to pay any loss or damage which the purchasing officer may sustain by reasons of such failure on the part of the bidder. The bidder shall not be entitled to any gain on such purchases made against default. The recovery of such loss or damage shall be made from any sums accruing to the bidder under this or any other contract with the corporation/government. If recovery is not possible from the bill and the bidder fails to pay the loss or damage within one month of the demand, the recovery of such amount or sum due from the bidder shall be made

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

3. Technical Specifications:

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

General features:

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

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

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

5. Inspection and Tests

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

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

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

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

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

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

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

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

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

	1.5% per month from the date of release of payment. The supplier will not have any rightful claim to the payment of cost for substandard supplies, which may have been consumed, either in part or whole, pending receipt of laboratory test / inspection report, wherever required. Supply of goods less in weight and volume than those mentioned on the label of the container, the same will be dealt with in the manner prescribed under rules.
6	**MARKING**
	All items and accessories supplied should bear marking "JKMSCL SUPPLY _____(engraved or non removable material) "NOT FOR SALE" or as mentioned in supply order in English, without which the supply will not be entertained. JKMSCL may ask change in art work to be printed on the item at any stage of the contract. JKMSCL SUPPLY (_____) NOT FOR SALE
7	**COMPARISON OF RATES:**
	(i) Only net rates should be quoted. No separate free goods or cash discounts should be offered. Rates must be valid for the entire period of contract. (ii) Consignee may be located at a district headquarter (except equipment/ machinery requiring installation and commissioning, the place may be any other station) or as directed by Jammu and Kashmir Medical Supplies Corporation Limited, J&K and the rates must be quoted accordingly. No cartage or transportation charges shall be payable. (iv) The net rate must be inclusive of all charges by way of packing, forwarding, incidental or transit charges, including transit insurance, and any other levies or duties etc. on the subject matter of procurement. (v) In the event of any subsequent variation (increase or decrease) in the rate of GST or any other taxes by the government (state /UT or central), the same will be admissible accordingly. (vi) If the rates of item quoted are found same from two for more bidders, then the bidders shall be asked to submit revised financial bid, containing reduced rates within given time by Managing Director, Jammu and Kashmir Medical Supplies Corporation Limited, J&K. (vii) The bidder will exercise all due diligence at their own level regarding applicability of other taxes, duties and fees etc. for the unit of supplies as specified in the bid document and accordingly include the same in their quotes. Any additional/extra claims over

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

	issuance of rate contract. The Managing Director, JKMSCL can extend the original rate contract subject to original terms and conditions for a period deemed fit by them, but not exceeding three months, for which the bidder shall abide. (iii) Successful bidders, whose offers are accepted, shall have to deposit performance security @ 3% of the value of the supply order in favour of Chief Accounts Officer, JKMSCL within 15 days from the date of issuance of letter of intent. The performance security shall be deposited in the form of FDR/CDR/B.G (Bank Guarantee)/NEFT/RTGS. However, the bank guarantee shall be for a validity period of six months, beyond the guarantee period sought for the item. (iv) In case of successful bidder(s), the amount of bid security shall be adjusted for performance security for the supply order placed to the firms/bidders. The amount of performance security, if exceeds the bid security, it shall be deposited by the firm against the supply orders issued from time to time. (v) The firm may submit bank guarantee issued by any scheduled/nationalised bank. The minimum validity of bank guarantee should be six months after completion of guarantee period for the item. (vi) The Performance Security: The Performance Security (P.S.) shall be 3% of the total value of stores ordered for supply. The payment shall not be released against supplies untill the additional Performance Security due is deposited by the supplier or additional. (vii) The performance security shall be refunded after six months after satisfactory completion of contract and after satisfying that there are no dues outstanding against the bidder subject to guarantee provisions. (viii) It is to be noted that earlier year's bid security and performance security, even if lying in the JKMSCL shall not be considered towards this contract and therefore fresh bid security/performance security shall be deposited. The JKMSCL shall pay no interest on bid security or performance security amount. (ix) Successful bidders shall have to execute an agreement on a Non-Judicial stamp paper of an amount mentioned in the offer letter, in the prescribed form with the JKMSCL and deposit performance security within 15 days from the date of acceptance of the bid is communicated to him. However, Managing Director JKMSCL, J&K may condone the delay in execution of contract by the bidder. The expenses in this regard shall be borne by the successful bidder. The validity of contract under this agreement shall be for a period as mentioned. (x) The bidder shall furnish the following documents at the time of execution of agreement:-

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

	procurement of raw material, whether imported or controlled or restricted, and as such the bidders must offer their rates to supply the specific items from own quota of raw material stock by visualizing the prospect of availability and requirement. Any of the above points if taken, as argument for non-supply/delayed supply will not be entertained.
12	**SUBMISSION OF CONTRACT COMPLETION REPORT**
12.1	Firms shall have to submit consolidated statement in duplicate at the end of rate contract well as after expiry of equipment / instrument guarantee period (as provided in guarantee clause of the contract) to enable JKMSCL to examine the case for refund of performance security.
12.2	The end user shall intimate the complaint/defect arise immediately to the manufacturer/importer/representative with copy to JKMSCL for further follow up..
13	**LIQUIDATED DAMAGES:**
	I. The time specified for delivery in the tender form shall be deemed to be the essence of the contract and the successful Bidder shall arrange supplies within the period on receipt of order from the Purchasing Officers. II. In case of extension in the delivery period with liquidated damages, recovery of liquidated damages shall be made at the rate of 0.25% per day for every day of delay subject to maximum of 10%. Delay beyond 120 (for Indian products) and 150 days (for imported products) shall be treated as unexecuted and attract penalty @20%. III. Penalty shall not be imposed if claim with regard to any supply i.e. Drugs/Equipment is complete in all respects i.e. QC verification/Board verified etc. is not cleared by the JKMSCL within a period of 60 days. IV. Fraction of a day in reckoning the period of delay in supplies shall be eliminated if it is less than half a day. V. The maximum amount of agreed liquidated damage shall be 20%. VI. If the supplier requires an extension of time in completion of contractual supply on account of occurrence of any hindrance, he shall apply in writing to M.D, JKMSCL, Jammu / Srinagar (J&K), which has placed the supply order, for the same immediately on occurrence of the hindrance but not after the stipulated date of completion of supply. The firms shall ensure extension of delivery period for delayed supplies. The payment shall only released by purchase officer after sanction of extension in delivery period by M.D., JKMSCL. VII. Delivery period may be extended with or without liquidated damages. If the delay in the supply of goods is on account of hindrances beyond the control of the Bidder, the extension in delivery period may be granted without Liquidated Damage. VIII. If the Bidder is unable to complete the supply within the specified or

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

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

	the specification with available reserved sample with the corporation which is submitted by the firm/supplier at the time of technical approval. (v) In case of imported item, the supplier shall ensure that the item shall be inspected by the third party inspection agency before dispatched to the consignee. In case any un-inspected item has been found in the item received by consignee, the firm shall be solely responsible for it and the JKMSCL shall be free to take suitable necessary action as per terms and conditions of bid documents/agreement against the firm.
17	**PACKING AND INSURANCE**
	(i) The goods will be delivered at the destination in perfect condition. The firm if so desires may insure valuable goods against loss by theft, destruction or damages by fire, flood, under exposure to weather of otherwise in any situation. The insurance charges will have to be borne by the supplier and the corporation shall not be required to pay any such charges, if incurred. (ii) The firm shall be responsible for the proper packing so as to avoid damages under normal conditions of transport by sea, rail, road or air and delivery of material in good condition to the procurement officer's store. In the event of any loss, damage, breakage or leakage or any shortage the firm shall be liable to make good such loss and shortage found at destination after the checking/inspection of material by the consignee. No extra cost on such account shall be admissible. The firm may keep its representative to verify any damage or loss discovered at the consignee's store, if it so likes. (iii) Packing, cases, containers and other allied material if any shall be supplied free, except where otherwise specified by the firm(s) and agreed by the JKMSCL and the same shall not be returned to him.
18	**REJECTION**
	(i) Articles not as per specifications/or not approved shall be rejected by the JKMSCL and will have to be replaced by the supplier firm at his own cost within 15 days or as time limit fixed by the JKMSCL. (ii) All the stores supplied shall be of the best quality and conforming to the specification, trademark laid down in the schedule attached to agreement and in strict accordance with and equal to the approved, standard, samples. In case of any material of which there are no standards or approved samples, the supply shall be of the best quality to be substantiated by documents. The decision of Managing Director JKMSCL as to the quality of stores be final and binding upon the bidder. In case any of the articles supplied are not found as per specification or declared sub-standard/spurious, that shall be liable to be rejected and any expenses of loss caused to the supplier as a result of rejection of supplies shall be entirely at his account. (iii) The rejected item must be removed by the firm, within 15 days of the date of intimation of rejection. The officials concerned will take reasonable care of such material but in no case shall be responsible for any loss, damage, shortage that may occur while it is in their premises. (iv) No payment shall be made for defective/incorrect items. However, if

	payment has been made, then defective items shall be allowed to be removed only after the firm replaces material as per specifications, duly inspected. If the payment has not been made, the firm may be allowed to remove the material without prior replacement (provided firm has performance security as per condition No. 18). Joint inspection of defective material may be carried out as required by the JKMSCL. However sample of ISI marked material found defective shall be kept by consignee for reference to BIS. (v) In case firm wants to take back item to their works for rectification then firm has to deposit payment received against such defective supplies. In case supplier has not received any payment then material be returned to supplier firm for rectification. The Bidder shall be responsible for the proper packing and delivery of the material to the consignee. In the event of any loss, damage, or breakage, leakage or shortage in transit, the Bidder shall be responsible. No extra cost on such account shall be admissible.
19.	**CORRECTION OF ARITHMETIC ERRORS**
	Provided that a financial bid is substantially responsive, the procuring entity will correct arithmetical errors during evaluation of financial bids on the following basis: (i) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the procuring entity there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected; (ii) If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected. (iii) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to clause (a) and (b) above. If the bidder that submitted the lowest evaluated bid does not accept the correction of errors, its bid shall be disqualified and its bid security shall be forfeited or its bid securing declaration shall be executed.
20	**PROCURING ENTITY'S RIGHT TO VARY QUANTITY:**
	(i) The quantity of equipments and instruments originally indicated in the bidding document may vary without any change in the unit prices and other terms and conditions of the bid and the conditions of contract. (ii) If the Managing Director JKMSCL J&K procures less than the quantity indicated in the bidding documents the bidder shall not be entitled for any claim or compensation except otherwise provided in the conditions of contract.

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

	document on depositing the required amount. Such bidder is eligible for the placement of purchase orders for the item quoted by them. (ix) Subject to para (vii) above, while JKMSCL has chosen to place purchase orders with matched L-1 supplier and there are more than one such matched L-1 supplier, then the purchase orders for the requirement of items will be place with L-2 first on matched rates of L-1 and in case L-2 does not have the required capacity than L-3 would be considered on matched L-1 rates and the same order would be flowed in case of L-3, L-4, etc. (x) The matched L-1 supplier, on placement of purchase orders, will be deemed as L-1 rate supplier for the purpose of the bid and all provisions of the bid document applicable to L-1 rate bidder will apply to the matched L-1 supplier. (xi) If the supplier fails to supply the item for the purchase orders, at any point of time, either fully or partly, within the stipulated time, JKMSCL is at liberty to place purchase orders with other bidders (in ascending order, viz, L-2, L-3 and so on) at the price offered by then and in such cases the supplier is liable to indemnify JKMSCL, without any protest or demur, for the difference in cost incurred by JKMSCL and the JKMSCL is entitled to recover the difference in cost from the amount due / payable to the supplier. (xii) Parallel rate contract may be concluded as described above during any time / currency of rate contract subject to matching of L-1 rates, price fall clause and on same terms and conditions.
22	**VALIDITY OF BID:**
	Bids shall be valid for a minimum period of 120 days from the date of opening of technical bid. Prior to the expiry of the period of validity of bid, the procuring entity, may request the bidders to extend the bill validity period for an additional specified period of time. A bidder may refuse the request and such refusal shall be treated as withdrawal of the bid but in such circumstances bid security shall not be forfeited.
23	**PRICE ESCALATION:**
	Price escalation or price variation shall not be applicable or considered under any circumstances for the purchases made under this bid or agreement. However, the provisions provided for tax variations are exclusive to this clause.
24	**SUBLETTING OF CONTRACT:**
	Subletting or assigning contract to third party is prohibited. In the event of bidder violating this condition, the Jammu and Kashmir Medical Supplies Corporation Limited shall be at liberty to place the contract elsewhere on the Bidder's account and at his risk. The bidder shall be liable for any loss or damage, which the Government may sustain in consequence or arising out of such replacement of the contract.

25	**FALL CLAUSE:-**
	(i) The prices under contract shall be subject to price fall clause. The prices charged for the store supplies under the contract by successful bidder shall in no event exceed the lowest price at which the successful bidder sells the stores of identical description to any other persons during the period of the contract anywhere in India. If any time, during the period of the contract, the bidder reduces the sales price chargeable under the contract, he shall forth with notify such reduction to the JKMSCL, J&K and the price payable under the contract for the stores supplied after the date of coming into force of such reduction or sale shall stand reduced correspondingly. It imply that if the contract holder quotes/ reduces its price to render similar goods at a price lower than the contract price to anyone in the State /UT of India at any time during the currency of contract including extension period, the contract price shall be automatically reduced with effect from the date of reducing or quoting lower price for all delivery of subject matter of procurement under contract and the contract shall be amended accordingly. (ii) The firms holding parallel rate contract shall also reduce their price. Firms shall notify their reduced price and intimate their acceptance to the revised price within 15 days to JKMSCL. Similarly, if parallel rate contract holding firm reduced its price during currency of the rate contract, its reduced price shall be conveyed to other parallel rate contract holding firms and the original rate contract holding firms for corresponding reduction in their prices. If any rate contract holding firm does not agree to reduce price, further transaction with it, shall not be conducted.
26	**COMPLIANCE WITH THE CODE OF INTEGRITY AND NO CONFLICT OF INTEREST:**
	Any person participating in a procurement process shall- a) Not offer any bribe, reward or gift or any material benefit either directly or indirectly in exchange for an unfair advantage in procurement process or to otherwise influence the procurement process; b) Not misrepresent or omit misleads or attempts to mislead so as to obtain a financial or other benefit or avoid an obligation; c) Not indulge in any collusion, bid rigging or any-competitive behaviour to impair the transparency, fairness and progress of the procurement process; d) Not misuse any information shared between the procuring entity and the bidders with an intent to gain unfair advantage in the procurement process; e) Not indulge in any coercion including impairing or harming or threatening to do the same, directly or indirectly, to any part or to its property to influence the procurement process; f) Not obstruct any investigation or audit of a procurement process; g) Disclose conflict of interest, if any; and

	h) Disclose any previous transgressions with any entity in India or any other country during the last three years or any debarment by any other procuring entity. **Conflict of Interest :** The bidder participating in a bidding process must not have a conflict of interest. A conflict of interest is considered to be a situation in which a party has interests that could improperly influence that party's performance of official duties or responsibilities, contractual obligations, or compliance with applicable laws and regulations. A bidder may be considered to be in conflict of interest with one or more parties in bidding process if, including but not limited to : a. Have controlling partners/shareholders in common; or b. Receive or have received any direct or indirect subsidy from any of them; or c. Have the same legal representative for purposes of the bid; or d. Have a relationship with each other, directly or through common third parties, that puts them in a position to have access to information about or influence on the bid of another bidder, or influence the decisions of the procuring entity regarding the bidding process; or e. The bidder participates in more than one bid in a bidding process. Participation by a bidder in more than one bid will result in the disqualification of all bids in which the bidder is involved. However, this does not limit the inclusion of the same subcontractor, not otherwise participating as a bidder, in more than one bid; or f. The bidder or any of its affiliates participated as a consultant in the preparation of the design or technical specification of the goods, works or services that are the subject of the bid; or bidder or any of its affiliates has been hired (or is proposed to be hired) by the procuring entity as engineer-in charge/consultant for the contract. Bidder or any of its affiliates has been hired (or is proposed to be hired) by the Procuring Entity as engineer-in-charge / consultant for the contract.
27	All correspondence in this connection should be addressed to the Managing Director JKMSCL, J&K. Technical questions should be referred to the Managing Director JKMSCL, J&K direct by correspondence or by personal contact.
28	(i) Direct or indirect canvassing on the part of bidders or their representative shall disqualify their bids. (ii) Supplier may be disqualified, banned or suspended from business during the rate contract if : (a) fails to execute a contract or fails to execute it satisfactorily ; (b) no longer has the technical staff or equipment considered necessary ; (c) is declared bankrupt or insolvent or its financial position has become unsound, and in the case of a limited company, it is wound-up or taken into liquidation ;

	(d) The firm is suspected to be doubtful loyalty to state. (e) The State Bureau of Investigation (SBI) or any other Investigating agency recommends such a course in respect of a case under investigation. (f) Managing Director JKMSCL, J&K is prima- facie of the view that the firm is guilty of an offence involving moral turpitude in relation to business dealings, which if established would result in business dealing with it banned.
29	No action on the letter head of the bidder /firm regarding any complaints against the JKMSCL will be considered unless the letter head bears the signature of the bidder or the authority higher than the bid signatory of the firm.
30	(i) If any certificate/documents/information submitted by the bidder found to be false/ forged/ fabricated/vexatious or frivolous or malicious appeals or complaints etc. than bidder shall be liable for the appropriate legal action along with disqualification, banning, suspension etc. for limited or unlimited period. (ii) Bidders are required to submit wanted information (if any) based on the facts. If the furnished information by the firm found to misleading or not based on facts disciplinary action against the firm may be taken as to banning concerned item/items for certain or uncertain period.
31	The JKMSCL reserves the right to accept any bid not necessarily the lowest. The JKMSCL may reject any bid without assigning any reasons and accept bid for all or anyone or more of the articles for which bidder has been given or distribute items of stores to more than one firm/supplier.
32	**GRIEVANCE**
	Grievance regarding interpretation of any clause of the contract/agreement executed between the parties shall be referred to Managing Director, JKMSCL for its clarification**.**
33	**ARBITRATION**
	33.1 Governing Law: This NIT shall be governed by and construed in accordance with the laws of the Union Territory of Jammu and Kashmir and the laws of India as applicable to the Union Territory of Jammu and Kashmir. 33.1.1 Amicable Settlement: Either party is entitled to raise any claim, dispute or difference of whatever nature arising under out of or in connection with the NIT including its existence or validity or termination (collectively "dispute") by giving a written notice to the other party, which shall contain i. a description of the dispute ii. the ground for such dispute iii. all written material in support of its claim 33.1.2 The other party shall, within thirty days of issuance of dispute notice issued, furnish: I. Counter claim and defences, if any, regarding the

	dispute; and II. All written material in support of its defences and counter claim 34.1.3 Within thirty days of issuance of notice by any party pursuant to para 29.1.2 both the parties to the dispute shall meet to settle such dispute amicably. If the parties fail to resolve the dispute amicably within thirty days of the receipt of the notice referred to in the above para the dispute shall be referred to Managing Director, JKMSCL, J&K for its reference to arbitration. **Dispute Resolution: Besides, as referred above may also include any dispute arising out of contract with regard to the interpretation, meaning and breach of the terms of the contract, the matter shall be referred to the Administrative Department H&ME, who will, through Law Department, appoint a senior most officer as sole Arbitrator, of the dispute, who will not be related to this contract and whose decision shall be final and binding on both the parties. The Arbitrator proceedings shall be governed by the J&K Arbitration and Conciliation Act, 1997. The venue of the Arbitration shall be in the UT of Jammu and Kashmir.** **Note**: - Small grievances regarding interpretation of any clause of the Contract / Agreement executed between the parties shall be referred to Managing Director, JKMSCL for its clarification and such interpretation(s) given shall not become subject matter for reference to Arbitration
34	The JKMSCL will have the right of rejection of all or any of the bids without assigning any reason for the same. The right to conclude parallel rate contracts with another firm for the stores detailed in Table I is also reserved by the Managing Director JKMSCL, J&K
35	Extra stipulation or any other condition contrary to the above bid conditions are not acceptable and may render the bid liable to rejection.
36	The bidder must sign all the pages of bid document at the below of terms & conditions agreeing to abide by all conditions of the bid and accept them in toto. The Signing of Annexure A1 shall be treated as acceptance of all the terms and conditions of the bid document.
37	The Managing Director JKMSCL, J&K may relax or change/ modification in terms and conditions in the exigency excluding fundamental changes. In case of such urgency the terms & conditions shall be got approved from Purchase committee of Managing Director JKMSCL, J&K as the case may be.
38	**JURISDICTION:-** All actions, legal proceedings and suits arising from or connected to this bid shall be subject to the exclusive jurisdiction of courts in J&K only.

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

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

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

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)

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Annexure AI

(On Letter Head of the Bidder)

DECLARATION

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

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

Signature & Seal of bidder
Name & Address:

Format-Authorized Representative of Original Manufacturer/Direct Importer

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

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

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

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

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

I / we, further agree to comply with the conditions specified under Clause 2(a) –Eligibility Conditions, of the tender document. We hereby extend our full 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 and shall have to be duly notarised.**

Automatic Deployable Mobile Patient Isolation Room

1 It should be a quick deployable patient isolation room with negative airflow.
2 The device should be mobile on wheels with easily lockable wheels.
3 The device should be suitable for quick isolation of suspected/ confirmed infections disease patient on the site by deployment of on the wheel unit.
4 The temporary mobile single-patient room should be able to be deployed and made operational by a single person in under 5 minutes.
5 The isolation room should have easy to operate switches for automatic deployment of sections of the room in sequence.
6 The isolation room canopy should have integrated colour coded knobs for loading it on the system for an error free automatic deployment of isolation room.
7 The unit should have a inbuilt negative airflow system.
8 The unit should be equipped with HEPA 14 and carbon filters to remove 99.995% of particles as small as 0.3 microns from the air.
9 The device should provide a minimum of 12 Air Changes per Hour (ACH).
10 The device should have hands-free foot pedal operated entry and exit options to limit the risk of hand and cross-contamination.
11 The fully deployed patient room should have dimensions of a minimum: 210 cm Heightx275 cm Width x 340 cm Depth.
12 The room should provide enough space for ICU Bed and required medical equipment and accessories and should provide enough space for comfortable movement action of the Doctor/caretaker.
13 Opening doors should allow for a bed to be wheeled into the room using the foot operated pedals only i.e though hand-free operation.
14 A Privacy window should be available in the room to maintain patient confidentiality and to allow care takers to monitor the patient without entering the room.
15 The device should include an in-built PPE station to encourage Infection Prevention Compliance and provide products at the point of use.
16 The room should be made of flame-retardant material.
17 Should be easy to transport, mounted on wheels with four-foot brakes and store.
18 Should be easy to store with Undeployed, isolation room should not exceed 140 cm Height x 75 cm Width x 80 cm Depth.
19 The device should have a facility of travel locking pin to ensure safe transport.
20 The device's maximum noise level should not exceed 55 dBA for patient safety and comfort, evidence/document to be provided to confirm this value.
21 The vendor should provide clinical evidence to prove that the device reduces the risks of healthcare-associated infections (HAIs).
22 The device should be classified as a Class I Medical Device.
23 Device should be ISO & European CE certified.

Technical Specifications for Robotic Surgical System with Accessories

	DESCRIPTION The following specification is for a system capable of working in the Master slave mode with the surgeon as the Master and his hand movements are translated in to minimally invasive instruments capable of navigating inside the human body and performing manoeuvres as desired by the surgeon as per the capabilities of the instruments for performing dissection and suturing in what is come to be called as a robot assisted surgery.
	CAPABILITIES SPECIFICATION
1.	The equipment must be capable of performing minimally invasive robot assisted operative procedure in General Surgery, GI, Urology, Gynaecology, Cardiac, Thoracic, Colorectal for benign and cancer surgeries. The provided system must be the latest generation/latest model at the time of procurement.
2.	The Main Equipment should comprise of the following fully integrated subsystems. 1. Single Surgeon's Console – with Master controls and an integrated true High Definition 3 D display immersive stereo viewer. 2. Surgical Cart with 4 universal 8mm instrument/camera arms enabling consistent 8mm port placement, rotating boom structure with a targeting laser. 3. Vision cart containing camera, image processing units and integrated true high definition display monitor for interaction. 4. System should be capable for Integration with the Second Surgeon Console which provides the ability to switch surgeon console control from one console to the other during surgery. 5. System should be capable for Integration of Skill Simulator with the Surgeon Console in the future wit supplied model of robotic system to practice & enhance surgical skills of new & existing robotic surgeons with the help of basic as well as advance procedure simulation. 6. System should be capable for an upgrade to Table motion feature in the future to achieve the motion of table while the system is still docked on patient. 7. System should be capable enough the use Single Site instrumentations.
3.	The surgeon should be able to magnify the images with his/her own controls.
4.	8mm Stereo endoscopes should be capable to view at 0 degree. Capability for Real-time near-infrared guidance with endoscope through injectable fluorescence dye.
5.	Camera should provide high resolution images of the operative filed along with perception of depth of field. Flexibility to place endoscope in any robotic arm without the need for change in surgical port size.
6.	Instruments to be used with the system should be able to provide surgeons with natural dexterity and a range of motion equal to the human hand. Such instruments should be able to offer a wide range of tips suitable for performing procedures for benign and oncology surgeries across multiple disciplines. These instruments shall offer Seven degrees of motion mimicking the dexterity of human hand.
7.	The masters at the surgeon's console should be capable of translating the natural hand and wrist movements in to corresponding precise and scaled

	movements to the instruments and camera attached to the surgical cart arms minimizing fatigue. Such movements of the instrument tips shall replicate the experience of open surgery.
8.	There should be facility for scaling of surgeon hand movements to corresponding smaller instrument tip movement. The surgeons hand movements shall be replicated at the instrument tip after filtering tremors if any in real time.
9.	There should be facility for learning hand – eye coordination movements by a Simulator subsystem.
10.	The system should perform self-checks to provide safety during usage.
11.	The system should have built in energy source for mono polar, bipolar cautery and Vessel Sealing, also have ability to sue external energy source of at least one compatible model for emergency use.
12.	Ability to change instruments during surgery safely with proper guidance should be in built.
13.	Should provide the flexibility to place scope in any one of the surgical arms during the procedure.
14.	Features to provide ability for the assistant in the OR to see and communicate with the surgeon through monitor and telestration.
15.	Ability to adjust the surgeons view ports and console to suit individual comfort and ergonomics should be available.
16.	Ability to enable the surgeon to view two additional video sources from other medical systems with compatible vide sources.
17.	While the robotic arms shall be operated by sterile persons the vision system and surgeons console shall be non-sterile are in the Operating room.
18.	Adequate safety features to prevent inadvertent movements of the surgeon affecting the instruments shall be available.
19.	The sub systems shall be easily movable within the OR. If wheels are used there should be features to lock the wheel to prevent movements.
20.	The system shall provide video output suitable for connecting to external devices such as recorders and additional video monitors.
21.	The system shall have all software required to support all disciplines of surgery which is possible by the system under the control of the surgeon.
22.	System shall have features for emergency release of the robotic instruments from the surgery.
23.	System should provide capability to conduct advance surgical steps like stapling with the help of fully wristed robotic staplers with 120° cone of the articulation, controlled directly from Surgeon's console.
24.	System should provide capability to conduct advance surgical steps vessel sealing with the help of fully wristed robotic vessel sealer with 60° articulation, controlled directly from Surgeon's console.
25.	System should have the capability, through a dedicated mobile application synced to the surgeon console to provide surgery date in the form of procedure type, operative time, instruments choreography and benchmarking of instrument usage and operative time per procedure with other surgeons.
26.	System should provide capability to support software and hardware application enabling live observation of surgeries between surgeons in different locations. The application should facilitate two-way audio and video communication with lives access to endoscopic view of the operative field.
	OTHER REQUIREMENTS

A	**TRAINING**
A1	**Surgeon Training**
	Six surgeons nominated in a phased manner by the Institution Head shall be trained and certified by the vendor for using the system to perform robot assisted surgeries. The duration of the training and the training method shall be as per international norms at an authorized training centre.
A2	**OT Staff training**
	A set of OT staff such as Nurses and OT technicians and Biomedical staff shall be trained by the vendor for handling the system covering powering on, moving and positioning the system and observing the system for right function and errors if any etc. The training method and duration shall be outlined by the vendor. There may be multiple batches of OT staff required to be trained over a period of time.
B	**INSTRUMENTS, CONSUMABLES & ACCESSORIES**
	The vendor should provide a list of Instruments, consumables and accessories available for the use of the system for 200 surgeries suitable for the capabilities of the system. Institute may increase the Quantity of Instruments, Accessories & Reusable at the time of Purchase.
C	**Mandatory Terms & Conditions**
1.	System should be quoted with Performance Report/Certificate of Last 05 years by various user/users from Government Institutions of India.
2.	The Vendor should have a Training Centre in India
3.	The Vendor should be capable of providing the Indian proctor support if required during the initial cases/procedures at the Institution.
4.	The robotic system should have USFDA and CE approval.

RADIATION THERAPY BEAM ANALYZER
Require a full-fledged three dimensional Water Phantom & Dosimetry System and therapy be analyzer for performing Off-axis profiles, PDD, point dose measurement , beam symmetry tuning . D rate constancy check, vector scan and TG51 lead Foil measurement for low and high energy Photon, electrons. All the measurements should be computer controlled and user friendly.
All components comply with national and international regulations and safety rules. All components of the system; all available options are controlled by the same software runs under Microsoft Windows 2000 and Windows XP. The system should suitable to measure pulsed radiation with fluctuation dose rateion Chamber:
Necessary thimble ionization chamber should be there for measurement of field and reference singnal plane parallel chamber should be there for electron measurement. The necessary holding devices extension cables for the above chamber must be included. The chamber specifications should be quoted . The position accuracy should be better than ± 0.1mm. The chambers should be properly calibrated and given necessary calibration certificate.
The positioning tools should there to allow easy and exact position of the chamber's geometric centre in the central beam and at the water surface Apart from this the exact position of the chamber the radiation beam should be possible via software.
The detector unit should be driven by stepper moter and step length should be adjustable

in steps of mm. The scannings speeds should be adjustable between 5mm/sand5 50mm/s small steps. Further the delay times for each step should also be adjustable by the user. The acceleration of the step movement should also be changed as and when required.
The zero point, reference point and limit of the different detector units should be stored separately and permanently in the control unit.
The control pandent should display the actual position of the chamber position at any give measuring time.
Water Phantom/Radiation Field Analyzer;
The scanning volumes should be large enough to scan and should not be less than 4Bx40x48 cm To avoid bending of the tank's walls by water pressure and water absorption of the acrylic material 1 wall thickness should not less than 2.0cm
The motor of the moving mechanism should not touch nor dip to the water to avoid mechanical stress to the acrylic tank.
The reproducibility of a position should be ± 0.1mm through the whole phantom
The digitally driven stepper motors should provide hysteresis free movements (Stick and slip free).
The lift tables should be electically as well as manually operable.
The velocity of the vertical motion should be quoted and preferably should have two vertical velocities. The Tank must be rotatable into positions 0 degree ± 45 degree and ± 90degree.
A highly accurate Positioning device directly supplied by the principles must be included.
Water reservoir
The water reservoir should be large enough to store the water and can be pump and drain to the water phantom as quick as possible. The water Reservoir must be able to hold the entire weight of the water without any change.
The weight of the whole assembly can be push or pull though the wheel with polyethylene or equivalent.. the lifting carriage should be electromechanical/elevating screw mechanism the keeps the height absolutely accurate .
The Lifting carriage and Water Reservoir must be imported and directly from the suppliers and must complete with all facilities including TPR and TMR measurements. Completely Integrated Lifting Carriage and water Reservoir.
The Water Reservoir must be compatible for TPR measurements and hence for TPR measurements 1 pump of the reservoir should drive automatically and electromagnetic valves make sure that no water can flow the phantom tank to the reservoir during automatic TPR measurement.
The water reservoir should have a safety circuit that avoids the dry pump running Control Unit/ Electrometer.
A separate control unit for controlling the movement of the detector in any three directions should possible
A separate electrometer to collect the ions/dose from the chamber/detector should be there the voltage to the chamber should be adjusted in the electrometer in steps of 50

V. The polarity of the chamber sgould be toggled between +/-.The electrometer should also be able to measure absolute doses for low and high energy photon and electron.
The gain of the electrometer should be automatic depending upon the signal collected by the field and referece detector. Further the user should also be given an option to change the gain to field and reference separately.
Necessary software to use the electrometer for absolute measurements should be provided.
The time constant should allow10 ms measurement times.
The external dosimeter should also be connecting to the water phantom.
The control unit should permanently store zero point, reference point and limit points for water phantom, air scanner and mechanical film densitometer separately.
These different sets of limits, zero and reference points can be retrieved independently.
Theco- Ordinate soft the probe should display for all directions, simultaneously on a control pandant.
The control pendent can be attached either to the water tank or to the control unit.
The communication between the control unit and the computer should performed by a standard RS23;interface.
The high voltage for the probe should be switchable independently for each decreased in different voltage and sign of the measuring signal can be reserved.
A solid, water equivalent phantom made up of slabs of different thicknesses shall be provided by the vendor for external beam teletherapy dosimetry. It shall be possible to use this phantom for both photon and electron beam dosimetry. The phantom shall be free of contaminants and air bubbles.The slab shall be of 30x30 cm or more size to totalling a thickness of 30cm.
Q Atools: Additional One Pressurised ION Chamber go supplied.
Control Computer:
The latest version of window computer should have the latest features with colour monitor and with printer/plotter(colour) and branded UPS (45min. Back-up)
The software:
Measurements can be done against time, against a monitors signal or against reference chamber
Within the moving range arbitrary point can be measured.
An arbitrary vector scan measurements should be possible.
Point dose measurement, Beam symmetry tuning and TG5l foil measurement should also be possible.
2D planes can be measured at any solid angle
Isodose can be displayed and plotted that can constructed out of profiles and depth dose curves or measured matrices. The Isodose level should be freely Closable warming before unsaved date in the RAM should be over written.

The Isodose level can be chosen after the measurement and withoutthe necessity to have the water phantom connected.
Multiple closed Isodose lines and hotspots should be detected automatically-
Single measuring points, complete curves and parts of curves should be display graphically and online on the screen.
A special measuring program allows a dose rate constancy check including a statistical evaluation.
Any kind of open, regular shaped, blocked or wedged field can be measured.
Fields from a symmetric collimator scan easily be measured.
A special measuring routine for service purpose allows to easily checking the beam with respect tosymmetry, flatness, homogeneity and energy.
Implemented routines allow the measurement, formatting and transferring of basic date to all important therapy planning systems.
ION chamber based Survey meters to be provided.
Secondary standard Dosimeter with appropriate thimble chamber and parallel plate chambers with latest calibrations to be provided. Including pin point chamber for small field dosimetry with phantoms, barometer and thermometer .
Solid equivalent slab water phantom with adapters for the above mentioned chambers should be provided.
Film Dosimetric software should be provided for treatment verification Administrative Data.
Comprehensive documentation of the measured data by automatic saving of the used measuring environments should simplify the interpretation of data even along time.
The used measuring routine data can be reused either unchanged or with some of the parameter changed Data can be printed and plotted in numerical and graphical form on all printers and plotters that art supported by windows.
The administrative data can be changed after saving the measuring data. All measuring data should furnished automatically with their administrative information and comprehensive filter function allows the easily selection of specific data.
The necessary software to network the3DTBA system with the 3DTPS in the department of Radiotherapy must be offered.
Data Analysis:
Various normalization should possible viz. normalization to maximum for depth dose curves normalization to maximum or centre for profile sand normalization to maximum, enter position and value for iso dose lines.
Homogeneity and symmetry should be calculated automatically and various national and international protocols can be selected.

Depth dose curves can be analyses according to the protocols DIN6800/21AEATR277, |CR U 35CRMRino.2, AAPMTH21/TG 25 and NACP.
Data transfer and data presentation.
Modules should allow automatic formatting and transferring of measured data to treatment planning system available in the department.
The measured data can be stored in two different ASCII formats (with selectable separation characters).
ASCII -data can be sent from external computers and be imported in to the water phantom software Image date for film dosimetry can be imported into water phantom software. Data can be display graphically on the screen. Cross hairs should allow the easy manual evaluation of a curve.
Plotting/printing of the measured data and correction functions can be printed (alpha numerically) and plotted (graphically).
ARRAY DETECTOR
One Array device must be based on ion chamber array resulting in an effective measuring field of 27cmx27cm and giving the facility to use with slab phantom for measurements. The chamber must be vented plane-parallel square shaped ion chambers with 5mmx5mmx5mm size and centre to centre spacing must be 10mm.
It should be able to use for the dose verification of IMRT beams and routine quality control of high energy photon and electron beams by using the software and also it should be able to check the MLC leaf positioning. It should be able to measure the dose from dynamic and static fields in one run and display the readings in both dose rate and absorbed dose mode.
It should be able to perform the QA for high energy beams and dose verification for lMRT, IMAT. ARC beam techniques. It should be capable of doing complete pre-treatment patient plan verification with on measurement.
Cylindrical & Rotational Phantom with Inclinometer, Lifting trolley & complete drive assembly with related software module for VMAT dynamic IMRT techniques. There should be a slot & provision to Insert the 2D lon Detector Array System into the Rotational Phantom for taking synchronous measurements with the Linac Gantry Rotation. The detector should always be perpendicular to the beam & thus removing the angular dependence.
The software should have the functionality like3D volume analysis and CT overlay.
One additional Array Device with 900 or above liquid filled lonisation chamber for patient plane verification & quality control of small fields. Detector spacing should be2.5mm & the maximum fit size should be above 10x10 cm & below 12x12 cm essentially for use with Small field dosimetry.The Array device should also be usable for Stereotaxy work This Array device should be usable with the Cylindrical & Rotational Phantom.
One parallel plate chamber for electron dosimetry, one number of pinpoint chamber for small fit dosimetry along with the calibration certificate for all these chambers.
Calibrated Barometer and thermometer to be included.

Specifications of Gel Card incubator

Category	Specification(s)	Bid Requirement (Allowed Values)
Generic	• Maintain Temperature Range.	37.0.
	• Capacity of Gel Card	24 Or higher.
	Audible alarms to indicate completion of incubation time	Yes.
Dimension	• Width	380.0
	• Height	230.0
	• Weight	13.0
	• Depth	500.0
Power Supply	• Power Voltage +/-10 V	220.0
Warranty	• Warranty Period	05 years
Test Report Details	• Copies of reports and certifications to be furnished to buyer on demand at time of supplies. • Availability of Test Report from Central Govt/NABL/ILAC accredited lab to prove conformity to specification.	Yes Yes.
Certification	• Product Certifications • Manufacturer Certifications	CE ISO 13,485

Specification Of Gel Card Centrifuge.

Category	Specification	Bid Requirement (Allowed Values)
Product Information	• Timer Range • Speed Range (RPM), Maximum • Centrifugal Time	10.0 1000

	• RCF Range (gram), Maximum • Capacity of Gel Card	15.0 1000 12
Dimension	• Weight • Height • Width • Depth	6.2 180.0 300.0 360.0
Power Supply	• Power Voltage • Current (Amp) • Power in wait	240.0 3. 120.0
Warranty	• Warranty Period	05 years
Test Report Details	• Copies of reports and certifications to be furnished to buyer on demand at time of supplies. • Availability of Test Report from Central Govt. NABL/ILAC accredited lab to prove conformity to specification.	Yes Yes
Certification	• Manufacturer Certifications.	ISO 13485:2016 or Latest
	• Product Certifications	CE

Automatic Component Extractor

Data transmission via LAN & WAB Blood donor link software
Automatic Cannula (Frangible Connectors) breakers to break cannulas on whole blood cell, and SAGM bags
Accommodate all types of blood bag configurations.
To 100 configurable program
Eighteen optical sensors to detect the blood component interface for accurate separation and consistent products with additional sensor to detect RBC in the tube.
Stepper motor (flow regulator) to control the flow of plasma with tube detection with visual indication
Electronic controlled press system with programmable speed of separation
5 clamps 4RF Sealers) with automatic detection of proper positioning of the tube insertion with visual indication (LED)
Three inbuilt scales for measurement of Plasma ,RBC, Buffy coat.
LCD display for process information, bag weight, component weights, separation stages.
Ability to export and view the separation data in different formats (TXT, XML, XLS, CSV)

11 protocols to accommodate Double , Triple TAT Buffy Bags, Triple/Quadruple TAB bags, CRC FIL bag, PRP second separation , BC second separation (single Buffy, pooled Buffy) with 4 special protocols (for a liquating , RBC washing. Umbilical cord blood separation, Cryoprecipitate (with optional profile plate).
Bi- directional Data transmission via LAN & WAN with Blood donor link software
Ability to work as a standalone device.
Barcode scanner
Alarms and Indications
Additional points
Robust haemoglobin detection system using two different wavelength sensors.
Quiet steppr motor that varies the speed of separation
Electronic control of the distance between the plate and the profile plate.
Self-diagnostic during start up.
Adjustable sealing time.
Inbuilt to press system and blade for Top and Top buffy coat separation.

CTG Machine:

1. Wireless.
2. 3-5 Mega Hertz Ultra sound Probes.
3. Speed 1,2&3 cm.
4. Twin Fetal Heart Rate.
5. Central Monitoring Type.

Full body UV Therapy for Vitiligo and Psoriasis

S.no.	Description	Description
1.	General	Spacious cabinet ON, OFF switch panel Built in dosimeter system Automatic calculation of irradiation time Homogenous all-round irradiation
2.	Electrical Specification	Should have 24 NBUVB Lamps 100 watt each. Power requirement: 4 KVA (either UVB/UVA) 220- 240 Volts, Single Phase 50-60 Hz
3.	Warranty & CAMC	5 Years Warranty and 5 years CAMC after expiry of warranty period for all parts except the consumables. Free software update for 5 years. Warranty for the UV Lamps for 6 months, along with freeze -in pricing for UV lamps for 5 years.
4.	Accessories	Protective Patients' Goggles: 5 Pairs. Protective Doctors' Goggles: 5 Pairs. Patient Platform. Fitted with wheel/caster or fixed with stoppers as required. The smart touch control system with required LAN cable / wire. For setting up

Co2 Fractional Laser:-

S. No.	Specifications
1.	The Machine should be USFDA/European CE/BIS approved
2.	Laser wavelength- 10,600nm (10.6jum)
3.	Laser transfer method- Articulated arm with Scanner
4.	Scanner Aiming Beam - 630-640 nm
5.	Maximum power 40-50 watts
6.	User mode- STATIC / DYNAMIC
7.	Pulse energy- 165 -175 mj
8.	Frequency (Dynamic Mode) – 50hz -130 hz
9.	Density (Static Mode)-25 400 spots/cm2
10.	Radiation Scan Area Max 15 x 15mm
11.	Type and degree of protection against electrical shock- CLASS I B-type
12.	Laser class CLASS IV
13.	Protector eyewear - OD>5 at 10.6 um
14.	User interface Touch LCD type 6-10" LCD
15.	Power consumption- 400 VA
16.	Machine should have different scan shapes
17.	Smoke evacuator
18.	Warranty -05 Years comprehensive warranty
19.	On side demonstration of equipment mandatory , prior to approved
20.	Should be CE Certified.

Peritoneal dialysis Unit	Meets requirements of	CSA, CE mark, and UL.
	AUTO DIURNAL FILL	Programmable
	LINE POWER, VAC	100/115/220, 50/60 Hz
	Height, cm	17-20
	WEIGHT, kg	10-15
	DIALYSIS CYCLE	
	Preheat time, 2 l	15-25 min
	Fill volume, ml	60-3,000
	Fill time limit, min	Fill to volume with slow-flow alarms
	Dwell time, hr	0-50/min increments
	Drain time, min	Drain to volume/empty with slow-flow alarms
	Fill/drain method	Gravity-emulation pump with disposable

		cassette
	Patient low drain, % volume return	60-125, programmable
	Others	Negative ultrafiltration, slow flow, check line, check lines and bags, therapy programming error, self-test, slow drain, patient position
	MICROPROCESSOR DISPLAY	
	Ultrafiltration	Per cycle, total accumulation
	Fill/drain volume	1 mL increments
	OTHER ATTRIBUTES	Automatically maximizes dwell time based on desired completion time; programmable last fill; tidal therapy; high-dose (OptiChoice) therapy; auto prime and flush; open-drain capability; low-fill mode available for smaller patients; PRO card programming keeps 60 days of programming.
	FDA CLEARANCE	Yes
	CE MARK	Yes
	CERTIFICATION	The equipment should be USFDA &CE approved

Baloon Gun	CRE Baloons Size: 8-10 mm and 10-15 mm

IFT (Inferential Therapy) equipment	Carrier frequency: 2000 Hz/4000 Hz Base Frequency: 0-150 Hz (1 Hz Step) Sweep frequency: 0-150 Hz (1 Hz step) Sweep modulation Programs – 1/1s, 1/5, 1/5S, 6/6s Therapy modes 4 pole inferential 4 pole vector 90◦ 4 pole vector 45◦ 2 pole pre modulated Output current: 0-100 mA Timer: 0-60 mins General features: • Both medium and low frequency currents • Russian stimulation • 77 pre programs and condition wise with protocols • International standards Russian current • Frequency: 2500 Hz • Ramprise/Fall: 1-10 sec (1 sec step) • Burst: 50-250 Hz • Hold on 1-99 sec (1 sec step) • Hold off: 1-99 sec (1 sec step)

Cold Light Source With Fiberoptic Cable For Transillumination	1. HIGH INTENSITY COLD LIGHT SOURCE FOR DETECTION OF PNEUMOTHORAX IN CHILDREN AND NEWBORN BY TRANSILLUMINATION 2. THE UNIT SHOULD BE LIGHT WT AND PORTABLE 3. THE FIBEROPTIC CABLE SHOULD BE APPROX 1 to 1.5 METER IN LENGTH 4. THE TIP OF PROBE (LIGHT SOURCE) SHOULD NOT GET HEATED ON USE 5. GOOD QULITY CASE FO STORAGE OF FIBEROPTIC CABLE AND LIGHT SOURCE 6. THE UNIT SHOULD RUN ON 220-240V A/C 7. SHAPE AND SIZE OF PROBE SHOLD BE SUITABLE IN PEDIATRIC AND NEWBORN **Certification**: US FDA and European CE approved Should be compliant with international safety standards for medical devices

Technical Specifications of Fluorescence Microscope
A. Optical system: Infinity corrected system **B. Focus**- Vertical stage movement 25mm per coarse stroke

- Vertical stage movement 1 micron per fine stroke
- Stage rotation of 240 degrees and above

C. **Illuminator-** Long life transmitted ED illumination having long life more than 40,000 hrs light intensity LED indicator

D. **Revolving nosepiece** - Nosepiece: 6x revolving nosepiece (capable of accommodating up to 6 objectives) mounted on ball bearing with highly precise click stops and should have slots for upgradation for DIC.

E. Objectives

- Plan Apochromat 1X/1.25X, Plan Achromat 2X, 4X
- Plan Fluorite 10X, 20X 40X, 60X & Plan Apo 100XO N.A 1.40 with correction collar
- **Observation tube**-Wide field Trinocular head with Field No. 22mm with three ways light path selection with possibility of 100% light to Eye and Camera

F. **Stage**- Anodized coaxial stage with right hand low drive Control.

G. **Condenser** - Swing out condenser (applicable for all objectives)

H. **Fluorescence Attachment**

- Filters should be DAPI/GFP, FITC/GFP, TRITC/Rhodamine, Cy5, Cy3 & Texas Red dyes.
- Microscope should have 5/6/8 position filter turret along with Fluorescence Bandpass filters for DAPI, GFP/FITC, TRITC/Rhodamine.

I. **Camera:** Peltier cooled (-20 below ambient) CCD/CMOS camera having dual mode Mono & Colour with true msec-600 second or better, Pixel size of approx.3.4µm x3.4µm.

J. **Imaging System:** Image analysis Software for counting & Measurements, Time lapse, Z stack, Multichannel Fluorescence Capture, it should be capable of Controlling the camera and Microscope.

i. Processor: 3.2GHz 6M (with i5 processor) and 8 GB RAM
ii. Memory: 500 GB HDD
iii. 1GB Graphic card
iv. 4 USB Ports and an Inbuilt Removable disc drive: DVD RW Drive
v. Interface of PC: at least 24 inch TFT Monitor with Keyboard and Mouse
vi. Operating System: Window 10 Professional (64 bi)
vii. 1 KVA online UPS should be provide.

K. **Application**- Light and Fluorescence Microscopy of Cell and tissue Section.

L. **Eyepiece**- 10x

M. **Miscellaneous**-Dust cover, all wires, cords, connector and standard accessories needed for proper functioning of the microscope

N. **UPS**- At least 01-hour power backup for both Microscope and Computer.

O. **Training and Demonstration-** Training of students /staff/ faculty in equipment maintenance by the certified company engineer and the specifications quoted should be demonstrated on site at the time of installation.

Installation, commissioning, training etc. free of cost. One additional training session to be done during the TWO years of warranty period. This training session is in addition to the first training done after installation.

The training must demonstrate all the techniques mentioned in the specification or additional if applicable.

Warranty- (05) years

LBC-Fully Automated System and Reagent Specification:

1. Automated system for the processing of gyn and non-gyn cytology samples for liquid based cytology.
2. FDA Approved System or equivalent.
3. Ability to make multiple slides from a single cytology sample which is uniform and reproducible
4. System should allow residual material to be used for ancillary testing such as HPC, CT/NG, Immunocytochemistry etc.
5. System should ensure Chain of custody.
6. Batch Processing of up to 50 slides.
7. Technology should be demonstrated as significantly more effective than the conventional Pap smear.
8. Improved detection of endocervical and endometrial adenocarcinoma.
9. Slides prepared must be able to be read with computer-assisted imaging systems in the future.
10. No "pre-processing" of Gyn samples should be required for use with the system (centrifuge, pipetting etc).
11. UPS Back up to be provided.
12. Preservative- Shall be supplied in a plastic vial with sealed cap and containing methanol and Buffered Preservative solution.
13. The Preservative vial shall be leak-proof.
14. The preservative solution is capable of preserving cells, DNA and RNA of patient samples with FDA approval letter/certificate.
15. Shall be able to preserve cells during transport and slide preparation for up to Six (6) weeks at 15° C to 30°C.
16. The preservative solution shall be non hazardous and non carcinogenic.
17. The preservative solution shall have FDA approval for HPV, Chlamydia/Gonorrhoea and Trichomonas testing.
18. System should be capable of slide processing and staining automatically.
19. The company should provide all components of the kits including stain.
20. The system should have 100% sample collection to ensure collection of all necessary cells.

SPECIFICATIONS FOR IHC AUTOSTAINER

1. The System should be fully automated Immuno staining system for Immuno Histochemistry and in-situ hybridization.
2. It should perform all the process automatically from baking to counter stain.
3. Totally hands free day or night with option of delay start.
4. Compatible with paraffin wax and frozen section and cytology smears.
5. Antibody menu of more than 18 more primary antibodies at one time.
6. Minimum antibody dispension of 100 micro litres to maximum of 600 micro litres.
7. Capable of operating at temperature of 20-32 degree C.
8. FDA/CE approved.
9. Should have 3 independent horizontal platforms with a capacity of 20 or more slides per platform.

10. The Immuno Stainer should have the capacity of staining 20 or more slides at a time.
11. The staining system should have inbuilt antigen Retrieval system for Heat treatment required for antibodies.
12. The Immunostainer system should have the Convertile/Coverslip Equivalent technology with latest software which should be upgradable.
13. The Stainer should have the facility for minimum usage 70 micro litre/test and the reagent container capacity may be 5 ml or 30 ml.
14. The Stainer should have Liquid Level Sensing (LLS). It should also alert when reagents are low or waste is full.
15. The Immuno Staining system should have the facility of LIS connectivity (Optional).
16. Reagent Dispensing Method should be Rinsed Probe Method or probe using disposable microtips or equivalent or dispenser vial.
17. The equipment should be LAN/HIS Compatible.
18. 220-440 VAC, 50 Hz with Indian Plug and Online UPS and at least 1 hour backup.

TECHNICAL SPECIFICATION OF MODULAR OPERATION THEATRE (1 A)

SCOPE OF WORK:

Complete plan, design, supply construction, testing and commissioning of Modular Operating Theatre in accordance with the specifications, bill of quantities.
Complete plan, design, supply construction, testing and commissioning of HYBRID OT should be constructed in one Operation Theatre on the on the 7th floor of the new Surgical block on turnkey basis if required.

The above works should also entail necessary Turnkey work including provision of free spare parts and service during Defect Liability Period. The design and construction of theatre shall be made using pre-engineered solution with objectives of Infection control, promoting high standard of asepsis, Facilitating coordinated services, ensuring maximum standard of safety, Optimizing utilization of OT with flexibility and staff time, optimizing working condition, Ensuring functional separation of spaces, Patient and staff comfort in terms of thermal, acoustic and lighting requirements, minimizing maintenance and regulating flow of traffic.

PART A: MODULAR OT

1. WALL & CEILING SYSTEM

a. Steel Structure:

Wall and Ceiling Panels, should be European CE Certified with notified body no. or ULC Certificate or UL Certificate must be submitted. All components: Laminated Panels, Steel Stub Structure, Aluminum profiles, Cover profiles, Angular supports should be from same make, same manufacturer and same standard.

The Framework should be made of upright profiles entirely made of a galvanized steel sheet of suitable

thickness. The structural steels shall have suitable section for rigidity and bearing the loads. The structure components should be joined together by means of coupling system in order to create a solid rectangular frame, able to support different infill panels with a load not less than 20kg/sqm. The "Z"/"C"/"I" suitable upright forms the vertical part of the frame and should be equipped with proper slot suitable for the panel coupling without screws. The profile should be the elements that constitute the basic module of the structure.

The "U"/"O" profiles shall be placed in horizontal position on the upper and lower part of this structure. "U" shaped upper and lower extruded aluminium track profile should be suitably sized to support the weight of the self-loading modules. The bottom "U"/"O" track profile should be prearranged to receive a pressed skirting profile or, optionally, an integral cove profile. The "U"/"O" track profile should be prearranged to accommodate a double set of balloon seals designed to ensure airtight compartment and compensate for screed/floor level differences. The upright should be fitted in such a way as to accommodate the co-extruded upright gasket providing a vertical seal on the rear sides of the finishing panels.

The front/side of the upright features a series of regularly spaced slots to allow the connection with interlocking gravity system of the finishing panels, after vertical level adjustment. The lower part of the system should be able to compensate for significant level differences and overcome imperfections and irregularities in the slab/floor. Spacer profile should be used to absorb level differences of the slab/floor and should be capable of connecting the finishing panel to the integral cove profile (if present), allowing the subsequent installation of resilient flooring with suitable upward curvature up to a nominal level of 100 mm.

The structure shall be provided with stiffening ledgers or profiles for sliding door fixing and other accessories according to needs. Total thickness of the partition wall: 100 mm. The corners shall be equipped with a series of specific 90° and 135° corner positioners having a triple function:

- the first function shall be for structural stiffening
- the second function to make the specific angle of the corner
- the third function for click-in system

90° and 135°internal/external corner profiles, with a durable thermosetting epoxy powder coating, to be installed in the final stage.

Suspended ceiling perimeter support profile should be made of extruded aluminum to be fitted, after installation of the finishing panels, the suspended ceiling perimeter profile or, optionally, the suspended ceiling perimeter profile with integral coving. The suspended ceiling perimeter support profile should be equipped with a double level sealing system: a lip seal gasket at the base, designed to provide horizontal compartmentalization at the rear of the finishing panels, and a lip seal gasket at the top, designed to provide horizontal compartmentalization at the rear of the acoustic baffle panels, if present.

b. Wall System

The wall system should be based on a technological modular unit designed to clad and to divide interior space in bacteria-controlled environments in a flexible and functional manner.
The outer surface of a wall surface should be created with high tech materials such as antibacterial Solid Mineral Composite Sheet. System should offer total ease of cleaning and sanitization of the partitions should have no live corners, adjacent surfaces should be molded flush by means of connecting elements (Surfaces should be completely co-planar without protrusions). System should afford the maximum versatility at the planning stage and flexibility during erection, ensuring openness to future alternations and trouble-free maintenance. During the installation of first the structural parts and subsequently the finishing elements, the system should ensure perfect integration of technical networks and allow ample operational flexibility on the construction site. Individual design elements (illuminated wall and ceiling elements, printed

wall elements) are available.

The clean, dry installation method should enable optimum programming of the various work phases, allowing optimization of the installation of technical systems and any necessary alterations to be made - right up to checking and final testing of the installed systems
- before the modules are sealed.

System should comprise of:

i) Sub frame;
ii) Wall panels
iii) Sealing gasket

System should assure the maximum independence from the surrounding environment because it should be composed of a sub frame made of section bars specifically manufactured for the loading structure and designed to create the necessary technical voids to house utility networks and pipe/cable drops. This entire system comprising of the sub frame, wall and sealing gasket should be of a single make.

c. Sub frame

Horizontal guides (upper and lower) sized to support the modules and prearranged for the future attachment of the curved connecting profile.

Upright made of galvanized steel pillars with broad cross section and dual cavity, with geometry designed to achieve exceptional rigidity.

The upright should be shaped in order to accommodate a vertical gasket. The upright features a series of slots arranged at a constant center distance to accept the sealing gaskets and allow the suspension of partition panels by means of a gravity interlocking system.

A mechanical device for connection between upright and horizontal profiles makes it possible to adjust and secure the profiles, ensuring the maximum rigidity and self-loading capacity of the system. This uprights level adjustment system makes it possible to compensate for floor level differences.

d. Wall panels:

In order to create a smooth uninterrupted surface between adjacent panels, thereby preventing the risk of the accumulation of dust and bacteria in gaps, the panel should be produced in a single full height floor-to ceiling piece. The Panels should be truly modular type and can be removed at any point of time.
Panels should not be less than 18mm thick.

e. Sealing gaskets/ Silicon sealants:

Vertical and horizontal gaskets in non-toxic silicone rubber/ silicon sealants around all the contact perimeters between the various materials, and the hermetically sealed gaps between modules, should ensure optimum space segregation and ensure that sterile air pressure values are maintained in the protected environment, this be being a fundamental prerequisite for guaranteed sterility.

Wall modules should be joined with a hermetic seal. The various sealing solutions range from the rubber non-toxic silicon rubber gasket, shaped in such a way as to assure a seamlessly connected surface, to the monolithic structural sealing, both materials should be immune to attack by microorganism. The wall modules should be individually dismountable independently from ceiling and floor system to allow inspect ability, maintenance of technical systems, and any variations that may become necessary for future

alteration, modification and repair.

Continuous electrical conductivity of the partition modules for the scope of earth bonding or in order to create a Faraday cage effect should be obtained by interconnecting sub-structural elements with jumper leads.

f. Hermetic Suspended Ceiling System

The hermetic suspended ceiling should be a loading structure in heavy gauge material forming the grid on which the ceiling panels (made of Solid Mineral Composite Sheet and it should not be any other GI /EGP material) are mounted. The ceiling panels should be min 6mm thick.
The modular grid, which shall be 600 x 1200mm/600mm x 600mm, or variable, allows the integration of sealed lighting fixtures, air anemostats and /or various service units. The variable module grid should make it possible to adapt the size of the ceiling module to match the equipment to be mounted. It should also allow the use of different module sizes within the same room.

The grid should be formed of loading profiles, suspended from the ceiling slab, to which the crossbar profiles are secured by means of rigid mechanical couplings. The thus formed grid should be rigid and remains perfectly stable during all the subsequent site operations.

The suspended ceiling should be hermetically sealed by means of silicon gasket application. The function of silicon sealing should be that of assuring an airtight environment in the room and eliminating crevices in which dust could accumulate. The gaskets to be made of nontoxic silicon in compliance with regulations applicable to clean rooms (to US FDA standards), providing a durable and non-degradable seal that should be resistant to microorganism attack Color of inner surface wall of OT shall be as per the advice of the client.

One installed, the vendor is to provide AIIMS with a third-party certification in order to ensure compliance to the desired specifications. Payment to the vendor shall be made only after the third [arty certification has been submitted.

LAMINAR AIR FLOW CEILING SYSTEM

Unit for laminar flow diffuser should be made of thick aluminum sheet. The complete unit should have factory prepared fine sealing system along with proper test certificates. The laminar air flow should be supplied at site duly sealed in factory made packing. The laminar air flow unit should be made of extruded aluminum sections which should support the fire-retardant housings in such a manner that the air is passed only through the Minipleat Hepa/H14 filters (not S type Hepa filter). A test certificate of this regard should be provided along with the unit. The Laminar flow system should have anodized aluminum perforated diffuser grill. The laminar flow system should have such design that it provides cleanliness of class 100. (< = 100 particles/ft3) and bacteriological class B (< = 20 cfu/m3).

The absolute filters installed in the system should be suitable for applications for Laminar flow and clean rooms, these absolute filters should be mini pleat HEPA filters having extruded anodized aluminum, 65 - 70 mm deep frame, and filter should provide following specifications:

1. Protective grids White epoxy painted micro drawn grid
2. Separators Continuous thermo plastic chord
3. Sealant Polyurethane
4. Gasket One piece polyurethane
5. EN 1822 class H14
6. MPPS average efficiency > - 99.99%

7. 3-micron DOP efficiency > - 99.99%
8. Final pressure drop 600 Pa (maximum)
9. Maximum operating temperature 60 degree centigrade
10. Maximum RH 90 percent
11. Efficiency Tests Filters individually tested and certified

Perfect tightness should be guaranteed by a liquid seal between filters and holding structure enabling no bypass of Mini Pleat filters. A written confirmation from the original product catalogue is required. Laminar air flow system and mini–Pleat HEPA Filters should meet relevant European/ US standards and should have appropriate certifications to prove the claim of compliance. In order to have perfect sealing both laminar air flow and filters from the same manufacturer. Complete air management system should be supplied with complete test certificates. Testing & maintenance of air quality with periodic replacements of Mini Pleat HEPA filters should be done at least
once in 6 months or earlier if required. Once installed the vendor shall be responsible to get a third party certification to ensure that the laminar air flow and the Hepa filter supplied are compliant to the specifications desired. In addition, the vendor shall also be responsible to get a third-party certification done for the Hepa filters when replaced within one week of replacement. Failing to submit the third party certifications, the vendor shall be liable to be penalized @ Rs.10,000 for every instance.

3 OPERATION THEATRE FLOORING (ANTISTATIC CONDUCTIVE PVC ROLL)

The operation theatre floor finish should be laid with 3 mm antistatic seamless conductive PVC Roll on a semi-conductive adhesive base. The floor should be scratch resistant, fire resistant, chemical resistant, non-corrosive, slip resistant, smooth, anti-fungi, antimicrobial impervious material conductive enough to dissipate static electricity but not conductive enough to endanger personnel from electric shock. The floor finish should pass over a concealed cove former and continue up the wall for 100mm. The floor should be provided flat to within a tolerance of ±3mm over any 30 Sq.mtr areas. Copper grounding strip (0.05 thick, 50 mm width) should be laid flat on the floor in the conductive adhesive and connect to copper wire of grounding. The connection from copper grid should be brought out uniformly at places to form equi-potential grid. A self levelling compound should be laid prior to lying of the floor finish.
One earthing lead should be brought out of from every 150 Sq.ft. area and attaching it to main earthing strip/ground.

Continuous roll should be used and all the joints should be welded by heat fusion process to get seamless floor. The joints in the flooring should be sealed by using a PVC welding bar of matching color and hot air gun for fusion of welding bar with flooring to provide a continuous sealed surface, confirming the European/US standards. The sheets should be highly durable with resistance to shock, scratch proof and indentation. Corners should be uniformly curved. The conductive material should be uniformly impregnated as grains. The floor should be inert to body fluids, chemicals, detergents and disinfectants and it should not be affected by temperature variation within the OT. Color should be uniform, pleasant and matching with ambience. The floor should have electrical resistance (Point to ground) within 2.5x10 to 2.5 x 10^6 Ohms as per NFPA-99/ DIN 51953/ATMF-150 B1 class of fire resistance. The floor should
efficiently discharge electric charges up to 2 KV. The floor should not allow buildup of electrical charge beyond 100 volts due to antistatic effect. It should fulfill product requirement s as per EN649. The corner should not be terminated sharply and concealed cove-former (Aluminum) should be used overlap to a height of approx.25mm and sealed perfectly and uniformly. Self-levelling compounds should be used for this purpose. Radius for corner coving - 70R

4.DOORS AND FRAMES (AUTOMATIC HERMETICALLY SEALED SLIDING DOORS)

To maintain sterility and correct air pressure in the theatre, the door should be sliding and hermetically sealed type. Door should meet international quality and safety requirements.

- Controller should be Microprocessor based controller (CE marked) and should have digital display - Regulated electro-mechanical sliding door drive.
- Suitable capacity of Motor should be equipped.
- Noise level of movement should not be more than 60 decibels.
- Power efficiency should be 0.95 (in AC 100 V full load).
- The track should be made up of single piece extruded aluminum
- Environment temperature should be –20 ºC to +55º C.
- Electrical safety codes for High & Low voltage system design should meet HTM 2020/2021 standards.
- The door and control should comply current IEE regulations and BS 7971 standard.

Hermetically sealed Sliding Automatic Door shall be with Vision Panels 300 mm x 300 mm/ 600mm x 300mm with double glazed panels and hermetically sealed should be equipped for OT.
The Door panels are to be of the same material as that of the wall panels.

Doors to be made of Antibacterial Solid Mineral Surface sheet: The Door Panel is 50 – 65 mm thick in Antibacterial Solid Mineral Surface sheet; this being a bacteriostatic, dense and non-porous material, Sp. 3 mm., composed of a uniform blend of 1/3 acrylic resin (methyl methacrylate) and 2/3 natural mineral substances. The result is a durable and uniform bacteriostatic material that is easy to clean and extremely hygienic. Cuts, scratches, or stains can be easily removed simply by sanding. The leaf is a sandwich panel with a hardwood perimeter frame, core in sheet of expanded polystyrene (Styrofoam type) having reaction to fire class 1, and cladding in Antibacterial Solid Mineral Surface, reaction to fire class 1. The thus, formed panel is extremely rigid and offers a high level of acoustic and thermal insulation. Should be in the color selected by GMC Jammu

Sealed airtight system should be provided to prevent further ingress of any microbial organism. The door should be fixed to Aluminum frame. Reinforcement of Extruded Anodized Aluminum material for HP Laminated Board Panel should be with door frames. Nylon runner guides should be fixed to the door in such a way that there shall be no obstruction to the Trolley movement.

The door leaf should have high quality synthetic rubber gasket with long life to ensure hermetic sealing to maintain pressure differential. Air tightness 99.99% at a pressure 75pa (Test certificate for hermetic sealing with door frame should be provided with pre dispatch documents. The finished door on either side of the door should be perfectly level (maximum permissible difference +1mm). The track of the door should be made up of single piece extruded Aluminum and the running surface for the top rollers shall be suitably angled to reduce resistance to movement. The door leaf should be hung by means of hard plastic rollers of high quality with double bearing at the top. Powder coated Roller should be provided under the stainless steel/extruded aluminum track to enable smooth and noiseless movement. The doorframe, track and the wheel should be designed in such a way that during last 50 mm at travel on the closing cycle, the door should make a tight sealing with the frame. The door should be provided with high quality cylindrical lock. The lock should be activated or switched off by means of the key switch. The door should be governed by two sensors for half and full closure. The door controller should sense overload condition and in overload case the door shall be automatically stopped and reversed the direction of travel. The controller should be capable of either operated by elbow switch; foot switch & radar switch (Touch fewer sensors). The door should be operated easily manually in the event of failure of the power supply or the automatic mechanism. Door opening handle should be strong and sturdy and the handle material should be AISI-304 Stainless steel and glossy finish. High and Low voltage system of the door should meet electrical safety code.

4a. DOORS AND FRAMES (AUTOMATICALLY HERMETICALLY SEALED SLIDING DOOR) FROM SCRUBBER

Same as Sl. No 4

DOORS AND FRAMES (AUTOMATIC HERMETICALLY SEALED SLIDING DOORS)

5**. HINGED DOOR SYSTEM (DOUBLE LEAF 2100mm X 1500mm)**
The Door panels are to be of the same material as that of the wall panels.
Doors to be made of Antibacterial Solid Mineral Surface sheet: The Door Panel is 60mm thick in Antibacterial Solid Mineral Surface sheet; this being a bacteriostatic, dense and non-porous material, Sp. 3 mm., composed of a uniform blend of 1/3 acrylic resin (methyl methacrylate) and 2/3 natural mineral substances. The result is a durable and uniform bacteriostatic material that is easy to clean and extremely hygienic. Cuts, scratches, or stains can be easily removed simply by sanding. The leaf is a sandwich panel with a hardwood perimeter frame, core in sheet of expanded polystyrene (Styrofoam type) having reaction to fire class 1, and cladding in Antibacterial Solid Mineral Surface, reaction to fire class 1. The thus, formed panel is extremely rigid and offers a high level of acoustic and thermal insulation. Should be in the color selected by AIIMS.

6. **HINGED DOOR SYSTEM (SINGLE LEAF 2100 X 1000)**
Same as Sl. No.-5

7. **PRESSURE RELIEF DAMPERS**
The Pressure Relief Dampers are to be equipped with the theatre to prevent contamination of air from clean and dirty areas. The Dampers of suitable size should have AISI-304 Stainless Steel blades of thickness 1 mm each. The body should be epoxy powder coated as per standard BS colors. The statically and dynamically balanced Pressure Relief Damper should be properly placed. The Dampers enable to maintain differential room pressure to close tolerance inside the operation theatre. Counter weight balancing system should be provided in the Pressure Relief Damper to maintain positive pressure inside the operation rooms. The PRD should remain closed at pressure below the set pressure and should open fully at a pressure only fractionally above the threshold pressure.

8 INTERNAL DUCTING
The internal ducting till the existing AHU system of the Operating theatre should be done as per ISI-655 duly fabricated out of 22 swg Aluminum sheet complete with flanges and accessories such as GI suspenders and GI support completely sealed with Silicon sealant duly insulated with Aluminum foil and (XLPE) Polyethylene/ Nitrile Rubber self-adhesive type insulation. The type of insulation and its thickness should be such that there is no sweating.

9 PERIPHERAL LIGHT CUM CLEAN ROOM LUMINARIES
It should be fitted outside the air ceiling system area and flush with the ceiling in the operation theatre suitable to required illumination (500 Lux) of OT. Peripheral lights should be LED based (Size-2ft x 2ft) and clean room luminaries fitted in the frame should be 8 in numbers for each OT. The fluorescent lamps / Non-hygroscopic high glow low power LED based peripheral lights having high quality low wattage LED lighting system with highly spectacular anodized Aluminum reflectors and optical antiglare system for adjustable light distribution. Luminaire cover made of highly resistant, disinfectant proof laminated safety glass with fine grained surface, glass pane with white powder coated steel frame. Luminaire body made of sheet steel, white, powder coated supplied ready for connection. The reflectors should be of high quality, cleanable and non- deteriorating. Dimmable ballasts of reputed companies to be used and
diffuser should be constructed with opaque acrylic diffuser material in aluminum frames. It should have flicker less design with color. Recess frames should be gas tight. The fitting should be flush with the ceiling and should be removable form top or bottom. Lighting units should be properly sealed with the ceiling by means of fillers and beadings so that all lighting units are airtight with ceiling panels. The light fitting should be uniformly and aesthetically distributed on the ceiling to provide uniform illumination in the OR. Peripheral lighting should be done according to IP65 protocol. Light should not interfere when green mode of Endoscopy is performed.

10. SURGEON CONTROL PANEL

The OT Control Panel should be designed to cope with changing technology and equipment in operating environments. Control panel should be user friendly and ease of operating and maintaining purpose.

The touch screen typed Control Panel should be 19" medical grade color TFT/LED panel stationed in the sterile field. The Control Panel should be configured to incorporate all the services required by the staff in the operation theatre. It should be mounted flush in the theatre wall. In case of breakdown, a bypass system should be provided with the pendant at the time of installation.

The Control Panel should comprise of following services in addition to Instruction board, Communication interfaces- both audio and video etc.:

- Day Time Clock
- Time Elapse Day Clock
- General Lighting System
- Hands free telephone set with memory card
- Temperature and Humidity Indicator with Controller
- HEPA Filter status
- Medical Gas status/alarm
- Digital Room Pressure indicator
- Music control

Day Time clock/Time Elapsed day Clock should be digital type and bright and the height not less than 30mm.

Temperature and Humidity Indicator should indicate temperature and humidity of the theatre and the display shall be digital and bright and the height not less than 30mm. The temperature and Humidity controller should be connected to the Air Conditioning system.

General Lighting System should incorporate all the necessary controls of all the lighting system including Dimmer for peripheral/planar lights. Medical Gas Alarm should indicate high, normal and low of gas pressure for each gas service provided in the operation room. Alarm should be equipped with audible buzzer. The pressure sensor of the Alarm should be connected to MGPS for monitoring the pressures. The control panel should be user friendly and ease of operation and maintenance. All internal wires should be marked with plastic ferrule type cable markers, for ease of identification. The control panel should be able to be integrated with the commonly used OT software in future. The control panel should meet Electrical Safety Code for High and Low voltage system, wired to the current IEE regulations.

11. ADJUSTABLE MOVABLE BOOM ARM SYSTEMS

The Ceiling boom arm systems designed to provide convenient positioning of medical equipment, medical gas terminal units, electrical and specialty services. The Ceiling Pendants should comply with international standard. The support arms should be extremely robust and revolve on high quality bearings, so that the pendant head glides smoothly and quickly to any desired position. The pendant
should be at least have 1200 – 1500 mm column length. Pendant should be European CE/US FDA marked.

a. Equipment Boom System with boom suspension (Surgeon Pendant)

Description: The Equipment Boom should be custom designed to meet all of the specific needs of the operating room such as concealed cables and tubes, unlimited equipment combinations. The arms should be easy to move, and each should come with electromagnetic/pneumatic brakes as a standard option to support a locked position. The Equipment Pendant with a service head column adjustable height and should be with Double-arm (1000 + 800 mm) with Horizontal Motion & Vertical motion.

There should not be any sharp edges. Should have a motorized articulating vertical drop. Vertical articulation should be through a Heavy-Duty Electric motor. Should have at least 5 shelves of minimum 750mm size for various medical devices having a load bearing capacity of minimum 200 Kg. Top-arm Rotation & Lower-arm Rotation should be at least 330$_o$ & Service-head rotation should be at least 330$_o$. The

external surface of the should be painted using antibacterial paint to ensure 100% shield against infectious agent. The pendant lids should be removable to allow access to the aluminum sections. Segregation shall be provided within the side sections to ensure that services rae not accessible when removing the lid. Preferably, should have break light indicator LEDs.
Service Points/Outlets:

It should have pre piped gas outlet points with NIST connection and manometer. It should have color coded high pressure rubber tubing for individual gas outlet points with NIST connection at the ceiling ened which should be connected with inside OT copper pipe lines. Should have standard Medical Gas Service outlets (7 bar Surgical Air outlet x2, CO2 outlet x 2, Vacuum Outlet x 2) &at least 10 no. of standard duplex conditioned Electrical Service outlets (same as in Anesthesia Boom System). Outlets should be European CE certified/UL listed. Each terminal unit should be identified by the appropriate recognized name or symbol, color, coding and shape as per HTM 02-01 /NFPA 99C. The Column should have at least 8 no. of Data (Audio/Video/Control) Ports for connections to various other medical devices desired to be integrated in future. Pendant should have RJ 45 /cat 5 for telephone communication and RJ
45 /cat 6 for data communication.

b. Anesthesia Boom System

The boom system should be available as follows:
- ✓ 1200 – 1500 mm column length.
- ✓ 1000 mm and 800mm with moveable arms with 330 deg. Horizontal movement.
- ✓ Double Arm Anesthesia pendant. The head of the pendant should move the machine up & down.
- ✓ the weight carrying capacity of the arm should not be less than 200 KG.
- ✓ Each arm should be capable of 330 degrees of rotation, which can be easily adjusted to suit the desired mode of operation.
- ✓ the arms may be fitted with electromagnetic/pneumatic brakes to prevent inadvertent movement.
- ✓ It should have pre piped gas outlet points with NIST connection and manometer
- ✓ Preferably, should have break light indicator LEDs.
- ✓ The Pendant Service Head should be supplied with medical gas terminal units and 5/15 Amps.

Sockets. Each pendant should have:
· Oxygen Outlets– 4
· Nitrous Oxide Outlet - 2
· Medical Air (7 bar) Outlet– 2
· Vacuum Outlets– 2
· Carbon Dioxide outlet: 1 No.
· AGSS Outlets-2 no. s
· Electrical Sockets –10 nos.
· Shelf with two rails one on each side – 2 no.
· Monitor input & Output – 1no.
· Infusion pump pole – 2 No.
· IV management – 2 No.
· RJ 45 /cat 5 for telephone communication.
· RJ 45 /cat 6 for data communication.

Outlets should be CE certified/UL listed. Each terminal unit should be identified by the appropriate recognized name or symbol, color, coding and shape as per HTM 02-01 /NFPA 99C.The Gas Outlets to be provided with adapters in OT Pendants and must be as per the standards/guideline maintained in the Medical Gas Manifold System in the hospital.

12. X-RAY FILM VIEWER
The system should electrical safety codes for high & low voltage system. The theatre is to be equipped with

a 2-plate X-Ray viewing screen. It should be designed to provide flicker free luminance for the film viewing purpose. It should be installed flushed with the theatre wall for hygienic and ease of cleaning purpose. The X-Ray viewing screen should be designed for the purpose of front access. The X-Ray viewing screen should be illuminated by 4 pieces of high frequency fluorescent lamps and the dimming is controlled by the usage of dimming ballast with the PCB that is mounted inside the box. Size of the unit should be not less than 800 x 400 mm.

13. HATCH/PASS BOX

It should be of 610 mm x 610 mm size for disposal of dirty linen/waste to non-sterile store with Door open/close indication. Each Hatch should be equipped with two doors and the door should be operated electronically. The Hatch should be designed in such a way that only one door will be opened at one time. The Hatch Box should be constructed of Stainless Steel AISI-304 Door and completed with
interlocked UV light and electro-magnetic mechanism complete with indicators and hours meter. This UV light should be automatically turned off in case of opening of either of the doors. Indicators should be provided on both sides of the OT so that door open / close status can be monitored from both sides.

14.WRITING BOARD (OPERATING LIST BOARD)

Writing Board as operating list Board of size-1000 x 700 x 60 deep should be made of ceramic having magnetic properties and should be flushed to the wall of the operating Room.

15.BUILT-IN STORAGE UNIT

Storage Unit should be made out of 0.80 - 1.60 mm thick AISI-304 Stainless steel. The storage unit should be divided 2 or more parts and each part should have individual glass doors with high quality locking system. These doors should be installed on the storage units with the help of imported fittings allowing an opening allowance of 90-100 degree. Each part should be provided with Stainless steel-304 racks which should be completely detachable type. The storage unit should be fitted with 5mm thick glass door and mounted flush with the theatre wall. The storage unit should be continuously ventilated by positive air in the OT through ventilation holes provided at the bottom and top of opposite sides. The dimensions of each storage unit should not be less than height 1800 - 2100mm x width 900 – 1200 mm x depth 300 - 350mm.
The storage units should be designed in a way that they are flush with the OT wall panels and the units should be air tight, not allowing any leakage between units and the wall panels.

16.DISTRIBUTION BOARD ELECTRICAL WIRING, CONDUITING WITH FIXTURES INSIDE THE OPERATION THEATRE

Electrical Distribution Board should be installed in a separate enclosure. Transformers, Mains, Relays, Circuit protective equipment, for all circuits of Operation theatre shall be installed in the remote cabinet. All electrical wiring should be terminated to the connectors mounted on DIN/CE approved rail and labeled with indelible labels. Individual fuse and miniature circuit breakers should protect all internal circuits. Complete schematic diagram drawing description should be enclosed with the equipment.
Laying of PVC conduits, Modular Switch Boxes, Modular Switches-sockets, Power and Light wiring including earthing wire for all the lighting controls, Pendant and other equipment fixtures and fittings inside the theatre Wiring with low leakage current wires of FRLS wires should be as per requirements.
5/15 Amps switched socket outlet set- 2 Nos. shall be equidistant flushed in each wall at 325mm height from FFL of OT. Wiring for 250 volts single phase and earth4 sq.mm and 2.5 sq.mm PVC insulated copper conductor 1100 volts stranded flexible wires should be concealed with conduit for switch & sockets. One switch and socket along with suitable size of wire must be fitted inside the OT for operating 'C'Arm.
Installation of all electrical cabling must be of IS: 1554 (As per latest amendment) standard and wiring as per IS: 732 standard and proper earthing of OT and other accessories in the OT room as per standard guidelines of BIS. Fittings should be sealed on accordance with the standard IP54. Earthed equipotent bonding of all exposed metal work should be provided.

17.SCRUB STATION

· It should manufacture from high density polyester resin and mineral fabric which feature complete sterilization, mold resisted, acid resisted, anti-scratch, heat resisted and easy cleaning functions. The special designed basin is based on the advanced human engineering which protects from water splashing to keep a dry floor. The whole basin base material featured long lasting 304 stainless steel
and to be supported by wall brackets enable floor cleaning.

· The basins are equipped with latest chrome surfaces, infra-red electronic start/stop detection tap which features the water-saving flow time, temperature control ranged from 35°C to 45°C, including an infra-red automated soap dispenser.

· Dual sinks size: 1600(w) x 860(h) x 672(d) mm

18.MEDICAL GAS LINE INSTALLATION

Oxygen, Air (Medical & Surgical), Vacuum, Nitrous Oxide and AGSS supply to Operation Theatres from the existing manifold system should be provided. The medical gas alarm system shall be installed which fully satisfies the principles of HTM 01-02/NFPA99c.

Medical graded Copper pipes shall be solid drawn, tempered, seamless, phosphorous deoxidized, nonarsenic and degreased for oxygen service. Copper to Copper joints shall be made on site using silver copper-
phosphorous brazing alloy to BS-1845. Copper to brass or gunmetal joints shall not be made on site. Except for mechanical joints used for components, all metallic pipeline joints shall be brazed or welded. All pipelines shall be routed in such a way that they're not exposed to a temperature less than 5 deg Celsius above the dew point of the gas distribution pressure. The chemical composition shall be as per BS-6017: 1981 Table 2, Cu-DHP grade.

Distribution Copper Pipe manufactured as per BSEN:13348:2008 Each pipe shall be capped at both ends before supply. Pipeline shall be supported at interval to prevent sagging. The supply of pipes shall accompany with manufacturers test certificates for physical properties and chemical composition. The supply of pipes shall be further substantiated with inspection certificates from third party inspectors like LLOYDS. Medical graded Copper Piping should be laid down from Pendant of OT to the nearby Valve Box outside the Operation Theatre via Surgeon Control Panel.

19.VIEW WINDOW WITH MOTORIZED BLINDS

View window with motorized horizontal Venetian blinds sandwiched in two parallel toughened glasses of thickness 5 mm should be complete with FHP Motor Control for 90° rotation. The Window frame should be powder coated Aluminum of approved shape flush mounted with wall paneling. The entire assembly should be completely sealed and fitted with proper Aluminum profile. The assembled thickness of the Window should be 33 mm. The window blinds should be operated with Remote Control and manually.

20.EXHAUST AIR CABINETS

The openable and cleanable return-air exhaust cabinets should be provided in the operation theater. The air cabinets should have suction from bottom. The supplier of wall and ceiling system should manufacture and supply the exhaust air cabinet. Specification of materials and aesthetic should match perfectly with the ceiling system.

21. Medical Isolation Panels

Minimum 20 KVA Medical Isolation Panel for each OT BMS integration possible and should have digital output.

Should comply with EN standard IEC 60364-7-710 regulation.

Medical Isolation panels should be specific for the supply of electrical systems in medical areas, in accordance with the regulation CEI 64-8. It should guarantee total protection from macro and micro shock through electrical segregation between utilizer and electric net. They are provided with a display which

allows to view all the parameters and to set up the values.
Measuring of the isolation resistance of the circuit (50-500 Kohm) and of the excess temperature of the transformer (60-150C°). Possibility of setting up alarms and pre-alarms. display which allows to set up the limit values of the monitored parameters.
Maximum leakage current at full leak condition with 1mA. Maximum insulation at load condition will be less than 0,6mA.
Remote control alarm facility: Double alarm signal visual and acoustic, with the possibility of silencing the latter.

European CE Compliance as per medical devices class-1

IN ADDITION TO THE ABOVE, FOLLOWING TURNKEY WORKS FOR INSTALLATION AND COMMISSIONING OF MODULAR OT ARE THE SOLE RESPONSIBILITY OF THE CONTRACTOR:

The turnkey work includes all modifications to the built-up space provided at the hospital site including civil modifications, electrical works, plumbing works, all cable trenches and railings wherever required, interior decoration, air conditioning duct, furniture and other related works of the Operation Theatre required for the smooth and efficient functioning of the center. These works shall comply with all relevant safety and standards guidelines. The vendor is fully responsible for installation and commissioning of all equipment mentioned in the tender. Bidders are strongly advised to visit the site for assessment before the submission of tender offer. Demolishing, re-constructing, water roofing,
plumbing, repainting and replacement Any demolition, reconstruction, water proofing, necessary plumbing, anti-microbial painting, replacement of any door or windows to provide structured design for modular OT

The vendor shall be responsible for ensuring appropriate ducting with regards to the HVAC system so as to ensure minimal space wastage.

Electrical cabling of IS: 1554 standard and wiring as per IS: 732 standards from MDB (Single point source) to Electric Distributional Panel and to the corresponding load points.
Earthing system of Control panel and other electrical instrument and accessories in the OT area as per standard guidelines of BIS (Latest edition). All cable trenches and railings should be made wherever required.

Providing fixing of Electrical Gadgets like ELCB, MCB, Light Points, Power points, in the Modular OT room.
Number of fans, power point, bulbs/tube light. Apart from these supplies to the individual equipments with ELCB & MCB for Modular OT. Installation of MCB, ACB, ELCB & OCB of Havell /Siemens/L&T/Schneider etc for Control Panel for Modular OT.

In addition to the above-mentioned equipment/appliances, if the contractor thinks it necessary to include any other equipment/appliances, accessories etc. for the Modular OT then that may be provided and any other necessary work required for satisfactory working of the Modular OT and not mentioned.
The sizes are approximate. Minor variations in sizes shall be acceptable subject to prior approval of the Engineer.

Note: All electrical accessories like cable wire, electrical outlets, switches etc supplied by the contractor should be fire proof of reputed make, certified for electrical safety.
Wherever makes have not been specified for certain items, the same shall be as per BIS.

· The contractor should provide test certificate for all material used for construction of pre-fabricated Modular OT
· The contractor should prepare and submit layout plan for Modular OTs, Laminar flow System including

ducting, Electrical Wiring to the stores for approval before beginning of supply and installation and As-built drawing after installation.
· The contractor shall be responsible for the complete works including submission of working drawing and walk-through view.
· The contractor should provide complete Operation Manual/Equipment & parts manual/Service manuals for all systems and subsystems.
· The contractor shall bear the cost of Final electrical safety test, system test and calibration to be done by authorized person with test instruments.
· Training for 7 working days should be provided by the contractor.

· Third party quality certification of the OT items from SGS/TUV(SUD)/Lloyds should be submitted by the contractor with contract No (Contract No. in the third-party certificate should be mentioned).
Scope of work in the scope of Modular OT vendor with regards OT Integration.

1. Share the Modular OT layout drawing (CAD Drawings) to the OT integration vendor for superimposing the OT integration system components and cables, before the commencement of manufacturing of Modular OT walls, ceilings, Pendants etc.

2. Provide cable trenches/trays, ϕ 50mm PVC conduits for Fiber optic and electrical cables and railings, power sockets of ratings 16A/6A (14 Nos. per OT) wherever required as per the drawings submitted by OT integration vendor and duly approved by Tender authority.

3. Provide cutout for Patch panels on the pendants and wall wherever required as per the drawings provided by the OT Integration vendor.

4. Modular OT Ceiling should be walkable and should provide easy access to ceiling suspended equipment for installation and service in the future.

5. Modular OT drawing shall be approved by authority only after the OT integration system has been superimposed in the Modular OT layout.

6. Ceiling cut outs required for the OT light in accordance to the requirements stated by the OT integration vendor.

7. Conduits should be ensured in all the OT'S in order to ensure future upgradation and integration of the Operation Theatres which are not being integrated in the current tender.

8. Ensure Site readiness:

a. Stabilized and uninterrupted power supply to ensure proper functioning of equipment.
b. AC up and running.
c. Permanent power available in all rooms through online UPS.
d. OT Door installed.
e. Dust free environment.
f. Two nos. of LAN cables and data ports in surgical pendant.
g. Multicast enabled network, public IP for Video conference system with 8-10 mbps connection.
h. Installation of power outlets above the false ceiling or on walls in OT and in Corridor as per approved drawings.
i. 2 nos. of IP with subnet mask, getaway.
j. 2nos. of data cables with RJ-45 jack on the surgical and anesthesia pendant each.
k. UPS power for the OT Integration system.
l. Back box to be provided for the wall monitors and touch panels if required.

SPECIFICATION OF DEEP Trans cranial magnetic stimulation (Deep TMS)

Physical Specifications

- Power supply:
- Main Voltage: 100-240VAC
- Mains frequency: 50/60Hz
- Fuse Rating : 100-120V/20A,200-240V/16A
- Mains Impedance <IΩ
- Stimulator Voltage : 1700VDC
- Power consumption: Momentary: 3800VA Ready: 350A, Treatment (2Sec, 20ITT, 100% output): 820VA
- Standby power consumption. 80 VA
- Display: 12.1*1280*800 multi touch capacitive MTC
- Dimensions (System with trolley); 680 mm (L) x 688mm (W)x2050(H)
  Total Weight (system with trolley: Up to 2 arms) Max 161Kg

System Technical Specification

- Maximum Frequency (rTMS): 50 Hz
- Pulse Train duration range (rTMS)L 0.1-20 seconds
- Inter- Train Interval range (rTMS): 0.5-60 seconds
- Maximum Trains per session (rTMS): 999(No Limitation)
- Capacitance : 180±10 uF
- Capacitor Life Expectancy: 30 Million pulses (extreme use)
- Pulse Waveform: Biphasic: Half-5lne(by configuration)
- Device Life time : 10 years
- That a burst: Capability until 82Hz brust frequency up to 7 pulses per brust without roll-off
- Trigger out: TTL;5v
- Trigger In: Open for research users.

Coil specifications:-

- Available coll/halmets: HI-coil,H7-cil
- Pulse wave form: Biphasic
- Pulse width (nominal): HI-coil: 370±10 µsec:H7-coil: 324±10µsec
- Maximum pulse energy (nominal): 260J Coll Parameters (nominal): HI 250 µH, 15MΩ H7:13µH 10MΩ
- Amplitude in standard Motor Threshold : 1.0 SMT-100v/m coll cooling : Active cool Air
- Induced electric field at 1.0 SMT: 100v/m

System Usability features

- Patient comfort Features: Personal patient ca coll positioning System: Integrated into device.
- Repeatable positioning using patient grids and rules

- User Controls/ User Interface: Touch Screen: D(a): Stop button, pedal , ON/OFF, Main switch, USB ports, BNC connector.
- Software features: Integrated file management software ,
- Dedicated Motor threshold finding modules, protocol management, and software upgrades.
- Maintenance: System undergoes preventative maintenance carried out by Brains Way or its authorized service provider on a regular basis.

Specifications of Audiometer

GENERAL FEATURES:-

Product/Purpose Diagnostic . Table top Clinical audiology.

PRODUCT TECHNICAL FEATURES

Portable with Air conductor (AC) Bone Conductor (BC)	Yes
And Channels can be mixed independently Signals	Yes
Number of Channels	2(TRUE CHANNEL)
Live speech tests through SD Memory, CD and microphone possible	Yes
Provision for direct print out of the results possible	Yes
Provision storage of results in PDF on USB memory stick	Yes
FF (Free Field) Speakers	Yes (02) including software and all SP90
High frequency up to 20 KHz	Yes with dedicated slot
Frequency range (Hz)	250 to 8000 normal frequency
Hearing Level (dB)	-10 to 120 dBHL
Input type	Pulse tone
Narrow band, white noise & speech noise masking upto 60dB	Yes
Head phones with ear cusions	DD45
Inserts ear phones, Ear tone 3A, TD-39	ER3A
Additional Supra Aural head phone with supply	Yes
High Frequency Headphones	DD450
Bone Vibrator	B81
DEVICE COMPATIBILITY FOR AUDIO TESTES	
Short Increment Sensitivity Index (SISI)	Yes
Tone decay test	Yes
Alternate Binaural Loudness Balance (ABLB) test	Yes
Stengers test & Quick Sin	Yes

TEN & SAL test, lagenbeck test, MLD, PEIATRIC NOISE STIMULI	Yes
Talkover Talkback microphone	Yes Multi channel frequency
Consumables	Yes foam tips all size for inserts
Tone type	Pure,pulse, warble tpme
Display Size	Minimum 8inch
HDMI PORT	Yes
WARRANTY & MAINTENANCE	
Warranty (Yrs)	As per policy
Contact details of manufacturer, supplier and local service agent to be provided	Yes

PURE TONE AUDIOMETER

1). Channels	Two independent and identical channels
2). Toner Stimull	Manual continuous , single pulse, pulsing warble
3). Intensity Range	AC:- 10 to 120 dB HL. In 1 or 5dB steps BC:- 10 to 70 dB in 1 or 5 dB steps
4). Output	AC- TDH 39/49, Bone Conduction, Insert phones and Free Field output, Free Field Amplifier, Hight performance Speaker (96dB) with cables, Booster Amplifier with cables, Insert earphone for masking and monitoring
5). Frequency Range	125-8000 KHz and above (with HAD Head phones)
6). Monitor	Built-in speaker or external loudspeaker
7). Test battery	SISL, ABLB, TDT (Decay) Stenger, Tinnitus matching trest BEKESY Audiometry.
8). Communications:	Two way computer interface which allows the computers to both monitors and control the audiometer. AUX Intercom
9). Masking Test	Wide/Broad band, Narrow band and Speech noises, Ipsi masking and Insert masking Auto calculation of masking
10). Speech Test	SRT. Word Recognition, MCL, UCL, Recorded Word Recognition Scoring Speech Stenger, Quick SIN
11). Speech Input	Live, Tape or CD
12). Input	Toner pulse, warble, tape and / or CD, Microphone , And External MIC(Electrels/Cardioids* microphone)
13). Monitor HD set	Talk back/ Talk over, with built in or external microphone
14). display	Adjustable high resolution graphical colour display, for easy differentiation between right left ears. Minimum 5” display
15). PC Interface	P.C based audiometric control, and software CD, connecting USB cable, with complete kit, Plotting and storing of audiogram in software itself, with patient* database software.
16). Compatibility	With NOAH
17). Essentials	Full PC-Integration Extensive diagnostic test battery Adjustable high resolution graphical colour display , Internal storage for patients record Multiple user settings (protocols)
18). Weight	6-12 kg
19). Other Accessories Required (All accessories should be	External microphone (gooseneck) Cables and jacks required for performing specified test and audiometer functioning Patient response button

form the same manufacturer)	Dust cover Operation manual CD, Multilingual Ce instruction for use Noise Reducing Endclosures for Headphones Software for connecting to computer for printing and database
20). Desktop PC	Display (minimum 15 inches) Widescreen flat Panel colour Monitor Processor i5 and above 4GB RAM and above HDD Size 500 GB In built/External Speakers Anti Virus software preloaded Monitor, Keyboard, and Mouse Original Window 7 Reputed Company product like Dell . Sony, Hp etc.
21). Standard	- CE/ISO/ANSI/Medical Device Directive (MDD) Marked/ International Standards for Medical Electrical Equipment
Demonstration of Quoted Equipment Model Mandatory before purchase. Minimum 05 Year Comprehensive Warranty starting from date of Installation Separate rate quotation for 5 year AMC with technical support.	

A. IMPEDANCE AUDIOMETER

1). Tympanometry mode	**Probe tone**: At least two Frequency 226 Hz and 678 Hz/800Hz/1000Hz Assuring constant level at different ear canal volumes Accuracy ±1% - ± 5% Harmonic Distortion Less than 5-10% **Air Pressure** Control Automatic Indicator Measured value is displayed on the graphical display Range:- 400 to ±200 daPn **Pump Velocity**:- 50-300 daPa /Sec Special Tests: Multiple Frequency Tymanometry, Acoustic Reflex Latency Test, Toynbee test and multi layered typmpanogram Eustachian Tube Function (Intact and Perforated) **Control:-** Automatic , where the start and stop pressure can be user- programmed in the set – up function **Manual:-** Control of all functions.
2). Reflex Mode	**Test method:-** Ipsilateral, contra lateral, Acoustic Reflex Threshold. Reflex Decay. **Intensity setting:-** Automatic or manual **Test tones:-** 250, 500,1K,2K,4K BBN/WBN/NBN, Non-acoustic **Harmonic Distortion (THD):** Less than 5% - 10% (measured acoustically) **Intensity Range:-** 40 to 110dB HL **Step Size:-** 5dB, and 1 dB or 2 dB
3). Audiometer (In built)	**Test Frequencies** 0.5; 1; 2;4; 8 kHz **Headphones Telephonic:-** TDH 39/49
4). Memory:	**Tympanometry:-** I curve per typmpanometry test **Eustachlan tube function test:-** 3 curves per ear Storage of test results for both ears
5). Output	**Air:-** Connetion of the air system ot the probe. **Contra Earphone:-** TDH39/49 earphone, insert for Reflex **Ipsl Earphone:-** Probe earphone incorporated in the probe system for Reflex measurements.

6). Printer	Fast, virtually silent inbuilt thermal printer, Print time between 4 s -20 s (Test results of both ears)
7). Display	Graphic LCD Display high colour resolution Display minimum 5 Inches Contrast adjustable
8). Calibration	Automatic self calibration
9). PC Interface	USB/Bluetooth
10). Standard accessories disposables	- Probe - Cables and Jacks required for performing specified test and impedance audiometer functioning - Headset TDH 39/49 for audiometer - Calibration cavity with probe holder - 1 TDH 39/49 contra lateral phone with headband - 10 rolls of paper -1 Set of Eartips yellow (7 mm) 20 pcs. -1 Set of Eartips green (9 mm) 20 pcs. -1 set of Eartips white (11 mm) 20 pcs. -1 Set of Eartips yellow (12,5mm) 20 pcs -1 Set of Eartips green (15mm) 20 pcs -1 Set of Eartips blue (18 mm) 20 pcs - Carrying case 1 pcs
11). Other Accessories	- External VGA monitor - External keyboard - Service Manual
12). Laser Jet Printer	- Compatible with equipment - Colour printer - Sheet input tray - Control panel overlay, - 18 PPm - USB cable, Output bin support. - Power cord v, Getting started guide. - Documentation CDs, - RAM Size 128 MB and above - Reputed Company product like Dell, Canon, HP.
13). Standard	- CE/ANSI - International Standards for Medical Electrical Equipment/Canadium, Equropean and International Standards/ American Standards for Medical Electrical Equipment - Power Supply Mains 100 -240 V-50/60 Hz 25 V
Demonstration of Quoted Equipment Model mandatory before purchase. Minimum 05 Year Comprehensive Warranty starting from the date of installation Separate rate quotation for 5 years AMC with technical Support.	

Technical Specifications (Instruments)

Tracheostomy Sel

1. Bard parker knife handle no.3
2. Mosquito forceps, straiglıt
3. Mosquito forceps, curved
4. Towel clips
5. Tracheal dilator
6. Langenbeck retractor, medium
7. Langenbeck retractor, small

8. Tracheal retractor 2 prongs blunt
9. Tracheal retractor l prong blunt
10. Adson forceps - Toothed 5"
11. Adson forceps Plain 5"
12. Straight scissors 5
13. Needle Holder, 6"
14. Barron Suction Tube size 3 FR
15. Barron Suction Tube size 5 FR
16. Steel Bowl
17. Sponge holding forceps
18. Artery Forceps Medium
19. Artery forceps Large
20. Knapp Scissors Curved
21. Cricoid hook
22. Silicone culled tracheostomy tube size 4mn to 10mn
23. Jacksons metallic peadiatric tracheostomy tubes
24. Tracheal dialator forceps

Laryngoscopy, Oesphagoscopy and Bronchoscopy Set

1. Nequs anterior commissure laryngoscope" with fibreoptic light carrier 10.5 x 9mm, 145mm.
2. Hypuplharyngosrope, with fibreoptic light carrier", Child
3. Hypopharyngoscope, with fibreoptic light carrier', Adult
4. Anterior comissure laryngascope, with ibreoptlc light carrler, ADULT
5. Anterior commissure laryngoscope, with fibreoptic light carrier PAEDIATRIC
6. Anterior commissure Laryngoscope, with fibreoptic light carrier* CHILD
7. Microlaryngeal forceps. serrated jaw, Curved left, 25 cm
8. Microlaryngeal forceps, serrated jaw, upward. 25 cm
9. Microlaryngeal forceps, serrated jaw, straight, 35 cm
10. Microlaryngeal forceps, cup jaw, curved lelt, 25 cm
11. Microlaryngeal forceps, cup jaw, upward, 25 cm
12. Microlaryngeal forceps, cup Jaw, straight, 35
13. Microlaryngeat scissors, straight 25 cm
14. Microlaryngeal scissors, Curved left, 25 cm
15. Microlaryngeal scissors, curved right 25 cm
16. Vocal nodule forceps, size 45 cm
17. Jackson's grasping forceps, size 35 cm
18. Jackson's grasping forceps, size 45 cm
19. Jackson's foreign body forceps, size 25 cm
20. Jackson's foreign body forceps, size 35 cm
21. Jackson's foreign body forceps, size 45 cm
22. Biopsy punch forceps size 45 cm
23. Microlaryngeai handle
24. Microlaryngeal knife, straight
25. Microlaryngeal knife, sickle curved
26. Plester oval knife
27. Microlaryngeal swab holder
28. Micralaryngeal probe straight
29. Microlaryngeal probe 90 degree
30. Oesophagoscope, 3 x 5mm, length 27 cm, with fibreoptic light carrier*

31. Qesophagoscope, 6 x 8 mm, length 30 cm, with fibreoptic light carrier*
32. Oesophagoscope, 8 x 10 mm length 35 cm with fibreoptic light carrier
33. Oesphagoscope. 8 x12 mm, length 40 cm. with fibreoptic light carrier*
34. Oesophagoscope 10x 14 m, length 45 cm, with fireoptic light carrier*
35. Endoscope suction tube, length 35 cm, diameter 2.5 mm
36. Endoscope suction tube length 25 cm, diameter 1.5 mm
37. Endoscope suction tube, length 40cm diameter 2.5 nm
38. Endoscope suction tube, length 50 cm, diameter 3 mm
39. Bronchoscope, 5 mm, length 40 cm, with fibreoptic light carrier
40. Bronchoscope. 7 mm, length 35 cm, with fibreoptic light carrier"
41. Bronchoscope, 5 mm, length 30 cn, with fibreoptic light carrier*
42. Bronchoscope, 3 mm, length 30 cm, with fibreoptic light carrier
43. Bronchoscope, 2.5 mm, length 20 cm, with fibreoptic light carrier
44. Oesophageal bougies, gum elastic or flexible
45. Alligator Forceps, Length- 55 cm; Diameter-3
46. Alligator forceps, Length - 45 cm, Diameter 2.5
47. Alligator Forceps, Length 30 cm Diameter 1.5
48. Alligator Forceps, Lergth- 25 cm Diameter 1.5 mn
49. Foreign Body Forceps, Length-35 cm, Diameter- 3.mm
50. Foreign Body forceps, Length 45 cm; Diameter2.5 mm
51. Foreign Body forceps, Length- 30 cm, Diameter-25mm
52. Foreign Body Forceps, Length 25 cm, Dianeter – 1.5 nm
53. Cup Forcers. length- 55 cm, Diameter-3 mm
54. Cup Forceps Length 45 cm Diameter -2.5 mm
55. Cup Forceps Length 30cm Diameter-1.5 mm
56. Cup Forceps Length 25 cm Diameter – 1.5 cmm
57. Biopsy forceps, Length- 55 cm; Diameter- 3 mm
58. Biopsy forceps, Length- 45 cm; Diameter - 2.5 mm
59. Biopsy forceps, Length- 30 cm; Diameter 2.5 mm
60. Universal Grasping forceps, Length 55 cm, Diameter-3 nm
61. Universal Grasping forceps, Length 45 cm; Diameter 2.5 mm
62. Punch Biopsy, Lengtlı - 45 cm; Diameter 2.5 mm
63. Denture Scissors, Length 55 cm; Diameter-2.5 mm
64. Peanut Forceps, Length 45 cm; Diameter 2.5 nm
65. Peanut Forceps, Length - 35 cm, Diameter 2 mm
66. Nogus Infant laryngoscope, with fibreoptic light carrier 10x10mm, 82mm effective length
67. Negus child laryngoscope, with fibreoptic light carrier 12x 12mn, 99mm effective length
68. Negus adult laryngoscope, with fibreoplic light carrier 15x 15mm, 135mm effective length
69. Laryngoscope holder and chest support with adjustable wheel including support rod, movable, with metal ring 9cm diameter,34cm length.
70. Monopolar laryngeal suction tube
71. Unipolar coagulation forceps, rectractable serrated 25cm

Note – The fibre-optic light carrier of all laryngoscopes, hypopharyngoscopes, osoghagoscopes & bronchoscope include all the mandatory accessories/ adaptors / attachments/ connectors, as applicable) for connecting endorses source.

Otology

1. Microaural Forceps Crocodile, serrated 0.6mm Jaw straight 8 cm
2. Microaural Forceps cup - Round- Straight - 8 cm
3. Microaural Forceps cup - Round- Up curved- 8 cm
4. Grommet Inserter
5. Microaural scissors Straight
6. Microaural scissors –Upward
7. Eat Suction cannula, set of 5 nos. with I adaptor
8. Adson forceps - Toothed 6"
9. Adson forceps Plain 6"
10. Ossicle holding clanp
11. Wullstein self retaining mastoid retractor 2 x 3 prongs
12. Wullstein self retaining mastoid retractor 3 x 3 prongs
13. Wullstein self retaining mastoid retractor 3x4 prongs
14. Farabeut elevator
15. Myringotomy knife
16. Verhoeven suction Tubes size 16
17. Verioeven Suction Tubes size 18
18. Verhoeven Suction Tubes size 20
19. Vechoeven Suction Tubes size 2:
20. Adaptor for Verhoeven Suction Tubes
21. Micro instruments tray for forceps, & micro point, with silicon mat.
22. Bali proue
23. House curette double e ended 170mm, 1.0 mm
24. Beales Raspatory
25. Circular knife with hole
26. Sickle knife 3 mm
27. Mosquito forceps, curved
28. OTOENDOSCOPE -Telescope for Tynpanoscopy with fibreoptic cable (specifications below**)
29. Lake Seeker
30. Plester first incision knife
31. Wellston pick needle
32. Micro hook 90 degree
33. Micromotor ENT drill
34. Straight hand piece for drill
35. Contrangle hand piece for drill
36. Tungsten carbide ENT burrs- cutting. polishing & diamond (all sizes) specifications below*.
37. House curette double ended 170mm, 2.2mm
38. Rosen's scikel knife 165mm, 3mn
39. Rosen's scikel knife 165inm, 5mm
40. Rosen's scikel kniffe 165mm, 7cm
41. Lempert endaural speculum
42. dsans forceps plain "
43. dsans forceps tooth 6
44. Lemperts nibbling blunt forceps straight
45. Ring curette blunt l6cm, 1.5nm
46. Ring curette blunt 16cm, 2mm
47. Ring curette blunt 26cm 3mm
48. Wegner hook delicate 16cm, 1 5mm, blunt

49. Wegner hook delicate 16cm, 2.5mın, blunt
50. Formby scoop and hook
51. Jabsons home probe l6.5cm
52. jobsons home probe 19cm,
53. Plester Jensen rectractor left solid blade
54. Pester Jensen recractor light solid blade
55. House graft press forceps
56. Frazier suction tube with large key hole far suction control 2mm
57. Frazier suction tubes with large key hole for suction control 2.7tnm
58. Frazier suction tubes with large key hole for suction control 3rnm
59. Barron suction tubes 3FR
60. Barron Suction tubes 5FR
61. Barron suction tubes 7FR
62. Borron suction tubes 9FR
63. Bartun suction tubes 12FR
64. Verhoeven suction tube connector
65. House dieter maileus head nipper up
66. House dieter maileus head nipper down
67. Teflon piston holding forceps
68. Micro aural polypus forceps
69. Beales respatory 165mm, 1.0mm x 12mm
70. Ball probe 165mm
71. Microsurgical hand piece straight with 40,000rpn
72. Hand piece lubricating spray
73. High performance autoclavable titanium brushless micromotor with precise torque control for Implant and micro ear surgery with digital display.
74. Operating microscope with camera head and recorder/obsarver lens, with variable focal length from 200mn to 400mm (carlzelss/Olympus/moller wiedel)

Tungsten carbide cutting, polishing and diamond burrs, round of sizes ranging f 0.6mm to 7mm, universal length of 70mnn- six of each to be quoted

OTOENDOSCOPE TELESCOPE FOR TYMPANOSCOPY WITH FIBRE

1. Straight fat ward telescope,0 degree. Diameter 1.9 mm length 10 cm, transmissian incorporated
2. Protection tube for Straight toward telescope
3. Light source or battery light source (rechargeable) as applicable for above telescope
4. Charging unit, Battery charger, mains curd etc as applicable
5. All attachments & adaptors for connecting telescope with light source

Stapedectomy set

S. No:-

1. Wullstein Pick-straight 165mm straight sharp
2. 70 Angled pick
3. Perforator 0.4mn with guard
4. House Measuring jie
5. Prosthesis crinper (piston holding forceps
6. Micro Spring scissor flat handle
7. Sickle knife i65mm,3mm

8. Circular cutting Round knife l65mm, 2.5mm
9. Plester Flag cutting knife with hold 450, I65mm
10. Bone curette
11. Craniotomy scissor
12. Crocodile forceps
13. Endaural nasal speculum
14. Perforator 0.6mm with guard
15. Perforator 0.8mm with guard
16. Mollisons mastoid retractor 2x2 typc
17. Shea piston depth gauge 1651un, 3.5mm to 4.5mm
18. Riglt angles pick
19. Micro elevator
20. Micro aural Crocodile forceps straight serrated
21. Micro aural Crocodile forceps upward serrated.

Technical Specifications:

Mechanical Hysteroscopic Tissue Removal (mHTR) System with fluid management system:

Mechanical Hysteroscopie Tissue Removal System

- Should he based on mechanical tissue removal technology with continuous flow of fluid irrespective of shaver activation.
- Should be provided with control unit footswitch and hand piece
- Should have digital display capable of displaying real time resection speed 0which can be set/modified by the user with special modes for pathology optimized shavers.
- Should he able to display the total resection time on the display of the control unit.
- Should he able to display error codes in case of malfunctioning and well described troubleshooting steps to rectify the errors.
- Footswitch should be capable of forward and reverse modes of resection.
- Should allow user to set rotation speed of shavers from the control unit with increments of100 rpm before and also during the resection RPM range between 100-2500 rpm
- System should be compatible for power supply between 100-240 VAC operating on 50/60Hz and 350VA
- Hand piece sterilization should be compatible for the following methods . Steam /pre-vacuum or Steam/gravity method
- Should be capable of doing diagnostic and operative work with the same hysteroscope in a single insertion without need for any additional outer sheath
- Should allow user to switch modes for different shavers from the sterile field.
- Should allow the user to change the shaving speed to resect various types of pathologies which can be set by user on the machine.
- Should be able to simultaneously resect and capture tissue for a pathology evaluation during tissue removal.
- The hand piece should have the option to manually turn off active suction from the sterile field.
- The system should be CE&USFDA approved.
- Should be capable of operating with normal saline and glycine as well.
- Should be indicated for multiple procedures like polypectomy, myomectomy, RPOC evacuation, visual D&C etc.

- Should have the option to manually set the window lock if it falls out of place anytime during the procedure.

Accessories & Consumables for Mechanical Hysterioscopic Tissue Removal System

Hysteroscope with Shavers:

- Hysteroscope:
  - Should have rigid rod lens optical system to give HD quality image.
  - Outer diameter of the hysteroscope including outer sheath should not exceed 6mm for smaller pathologies and 7.25mm for larger pathologies including outer sheath.
  - Should be capable of doing diagnostic as well as operative work in signle insertion without any need for adding the outer seath to switch from diagnostic to operative hysteroscopy.
  - Must be capable of getting sterilizer by high temperature steam/pre-vacuum for temperatures up to 275°F(135°C)
  - Should have minimum 3.00mm inner working channel for smaller pathologies and 4.00mm for larger pathologies.
  - Should come with the hysteroscopic seal to control leakage because of backflow and avoid pillage of fluid.
  - Should come with integrated light source adaptor compatible with major brands
  - Should have dedicated inflow and outflow channels with controllable lack – mechanism using topcocks.
  - Should inflow and outflow ports activated to maintain 100% continuous flow irrrescrpective of shaver activation.
- Shavers:
  - Should be minimum 200mm working length to access distal uterine pathologies.
  - Should have tissue optimized shavers, different polyps & fibroids
  - Should have oscillation mode for softer tissues and reciprocating modes to resect denser pathologies that can be set by the user from the sterile field.
- Fluid Management System:
  - Should come with inbuilt vacuum suction and irrigation system.
  - Should be able to calculate th real time fluid deficit and digitally display the fluid deficit and overall fluid usage during the case.
  - Should have touchscreen display allowing user to define deficit levels and intrauterine pressure before . during the case
  - Should give audible and written safety alarms if the set fluid deficit levels are branched
  - Should be capable to automatically decrease the intrauterine pressure if the uterine pressure goes beyond 10mmHg of the set limit & also give audible alarms
  - Should have different mode s for diagnostic and operative procedures
  - Should have flow range of 50-800ml/min, Suction power -60Kpa Nominal Pressure range 15-150mHg
  - Should have interactive display for setting up the system with legible recommendations.
  - Should be capable to be paused at any item minimize overall fluid consumption & not lose the overall inflow & fluid deficit readings after resuming the flow again
  - Should come with minimum 4 loops to hang the irrigation bags

- Should come on the cart/scale with locking foot break & roller wheelbase to allow easier movement in the DR.
- Should be able to produce minimum suction of 300mmHg and controlled vacuum regulator.
- Should be able to demonstrate th total fluid deficit for the overall procedure irrespective of the irrigaton/collection bag changes
- Should be able to pause the deficit readings if any vibration are sensed on the fluid manger scale. This would ensure that there are minimal errors in calculation of overall fluid deficit.
- Should be able to set the fluid deficit levels basis patient anatomy with minimum increments of 100mls or lesser.
- Should have touchscreen controls.
- Should display overall fluid usage and real time fluid deficit on display.
- Should give audible and written warning signs for rapid fluid deficit to diagnose any complications quickly to enhance patient safety
- Should be capable to of handing up to minimum 30 liters of fluid for the overall procedure.
- Should be able to display if the fluid management scale is functional or not during the procedure.
- Should come with functional testing that includes pressure measuring test (confirming that actual pressure matches set pressure) and scales function test (confirming performance of scales for deficit calculations
- Should be able to display the current intrauterine pressure and set pressure on the screen.
- Should be able to automatically maintain the intrauterine pressure within a specified limit set by the surgeon by auto adjusting flow and suction rates and should give audible safety alarms to notify breach of intrauterine pressures beyond set limits.
- Should be able to pause the fluid manager at any time during the procedure without losing total inflow and fluid deficit readings for the total procedure
- Should be able to give visible and audible signals for detection of the hysteroscope and scale.
- Fluid deficit reset level button should nat become active instantaneously to avoid any accidental loss of deficit reading during the procedure far enhanced safety. Deficit reset should only become active after pressing and holding deficit reset button far over I sec.
- Should be able to identify and calibrate flow as per the diameter and pressures set on machine.
- The system should be USFDA approved.

Accessories for fluid management system

- Should be supplied with inflow tubing compatible with the hysteroscopy tissue removal system.
- Should be supplied with outflow tubing campatible with the hysteroscopic tissue removal system.
- should be supplied with the tissue trap to collect the tissue specimen that can be sent far further histopathological examination
- Should come with the vacuum regulator to split the pressures between drape and handpiece to ensure that all fluid is collected back into the system.
- should come with canisters to collect the following fluid from the hand piece and drape simultaneously with an option to split the suction pressure using vacuum regulator

- Should be supplied with vacuum tubing with preinstalled filters
- Should be supplied with jumper cables to connect canisters and regulator.

Scope of Supply

S.No.	Product head	Product Description	Quantity
1.	Hysteroscopic mechanical tissue removal system.	Mechanical tissue removal system control unit	1
2		Handpiece with socket safety lock	1
3		Foot switch (forward & reverse mode. Window lock and oscillation lock buttons)	1
4		Gynaecology Instrument Tray	1
5	Hysteroscopy for diagnostic & operative hysteroscopy with dedicated inflow outflow channels light source connector, eyepiece. angled distal tip	Hysteroscope with integrated sheath and insert 00 up to 6.00mm with inner working channel 1 of 300mm	1
		Hysteroscope with integrated sheath and insert 00 up to 7.25mm with inner working channel of 4.00mm	1
6	Fluid Management System with inbuilt suction and irrigation system.	FMS Control Unit with inbuilt suction and irrigation	1
7		Inflow Tubing Sets compatible with hysteroscope	10
8		Outflow Tubing Sets (drape, handpiece & scope)	5
9		Canisters with sealable lids and ports for tandem & patient	36
10		Suction canister accessory kit (Includes 4* jumper tubes and tissue trap)	1
11		FMS scale with wheels	1
12		Vacuum Regulator	1
13		Single Cable Procedure Kit (Inclusive of one jumper tube and one tissue trap)	1
14		Hysterolux™ procedure Kit (Includes inflow tubing , outflow tubing and suction canister accessoryKit)	1
15		Hysteroscopic Vacuum Tube Set	10
16		Country Kit Power cord & Manual	1
17	Pathology Optimized Tissue Shavers.	Soft Tissue shavers (Small & Large)	5+5
18		Dense Tissue shavers (Small & Large)	5+5
19	Accessories	Hysteroscope seals for minimizing leakage	5

Broad Based Technical Specification for Bronchoscopic Thermal Vapour Ablation BTVA Union System

Broad Based Technical Specification for Bronchoscopic Thermal Vapour Ablation BTVA Union System
System Includes:

i) The Generator of the BTVA Union System
ii) The Catheter of the BTVA Union System

The Generator of the BTVA Union System

1. Intended Use

Union Generator only- The BTVA Union System is intended for treatment of patients with heterogeneous upper lobe emphysema to achieve bronchoscopic lung volume reduction by the application of heated water vapour to the most diseased lung segment(s) targeted for treatment.

Technical Specification:

- All components in contact with the vapour shall be constructed of corrosion resistant materials and not exposed to materials that can exacerbate corrosion.
- The Generator shall measure Heater Coil temperature over the range of 20°C to 400°C with an accuracy of ±3°C at 25°C, 90°C and 180°C.
- High temperature (>125 deg C) and high pressure (>19 PSIG) vapour fluid pathways shall be constructed of stainless-steel tubing or fluoropolymer tubing (PTFE, PFA).
- The pressure vessel's heaters shall be disabled if maximum temperature is exceeded. The pressure vessel's bottom surface maximum temperature shall be 232 degrees C The total fluid capacity within the pressure vessel shall be: Total Volume 1630 cc ±10%
- The Heater Coil vapour path from the distal electrical connection to the end of the barrel shall not exceed 150C for emphysema vapour deliveries.
- Vapour delivery shall only occur if the following parameters are met and the user sequentially activates the SET switch and the Vapour switch
- The Handpiece vapour; path (proximal to Water Line Kit connection to distal vapor outlet) shall withstand a pressure of 130 psi when heated to 250C without leaking (heat specification only applies to path distal to first electrical connection)
- The Generator shall operate from standard wall outlets with AC power input of 100V to 264V and 47Hz to 63Hz without requirement to change fuses.
- The Generator Controller Internal Power Supply shall be supplied "medical grade" (provides two means of patient protection (MOPP) from mains electrical power and recognized certification to medical equipment electrical safety standards).
- The Handpiece and Handpiece Cable weight maximum weight shall be 2.0 kg.
- The Handpiece mating connector to the Catheter shall be connected and disconnected 10,000 times without failure to the Handpiece Catheter connection.
- The Heater Coil shall have a minimum of 1" of hypotube from the distal electrical connection to the end of the hypotube. To maintain temperatures below 120°C at the catheter face.
- The maximum weight of the Generator shall be 9.1 Kgs.
- The Generator shall have a service life of 5 years, during which it is expected to perform at least 2,000 patient cases and 10,000 vapour deliveries, The Generator shall continue to deliver the specified energy performance after 10,000 10 second treatments.
- The Generator shall have Power Supplies rated for 10,000 maximal treatments (10,000 periods of 15 seconds on time or 39 hours at high power).
- The Generator shall not allow a vapour delivery to a patient within 2 minutes of a previous vapour delivery.
- The main output valve shall withstand at least 60 psig without leaking.

The Catheter of the BTVA Union System

Intended Use of BTVA Catheter

The BTVA Catheter is intended to facilitate delivery of vapour from the Generator to the patient, The BTVA Catheter, which is the applied part of the BTVA System, consists of three primary subassemblies: the hub, the shaft, and the balloon.

Technical Specification:

- The balloon must be capable of expansion to at least 6 mm in diameter with unrestricted inflation using a maximum 1 cc of air. The balloon shall be able to capable of adequately sealing the simulated bronchi as can be demonstrated by visual verification of prevention of retrograde vapour flow.
- The Catheter shall remain functionally intact upon rotating the manifold ±45° from the datum while the balloon is inflated within a simulated bronchus inside of a bronchoscope set to maximum curvature (180° bend) during a worst-case vapour treatment application.
- The catheter shaft shall not leak when pressurized to the maximum "worst case" pressure of 140psi for 8 seconds.
- The Catheter must withstand temperatures produced from the vapour treatment (up to 50 cal/sec for 8 sec duration), without degradation in safely or performance.
- The balloon shall maintain a minimum diameter of 6mm when inflated with the maximum volume of air.
- The total Catheter length shall be 133.0 cm 0.3 cm, the minimum working length of the Catheter shall be 111.0 cm 0.2 cm.
- The distal flexibility of the device shall be sufficient to allow advancement of the Catheter within a 2.0 mm working channel.

Technical Specifications For Virtual Bronchoscopic Real Time Navigation (VBN) with Fused Fluoroscopy guidance/Archimedes.

1. A Compact software-based device providing a navigation system to assist the Bronchoscopy operator to reach the target site in the lung. Navigation software should be used to display images of the anatomy to aid the physician in guiding endoscopic tools or catheters during navigation through the same anatomy.

2. The software should be able to analyses and generate a virtual image of the tracheobronchial tree based on the CT scan data which can be loaded into system.

3. When under fluoroscopy guidance, the software should enable users to segment previously acquired 3D CT or other datasets and overlay and register these 3D segmented data sets with live fluoroscopy X-ray images of the same anatomy in order to support catheter/device navigation.

4. The 3D segmented data set can be displayed with a Facility for import (of CT data from disc or USB flash drive or PACS server) and analysis of CT data from commonly used CT image format platforms should be available.

5. Navigation system should overlay CT information onto live fluoroscopic video to allow the bronchoscopist to accurately guide a sheath through lung tissue and access more distal targets for diagnosis or treatment.

6. The system should able to multi-planer reconstruction and 3D virtual visualization of the bronchial tree.

7. Should allow superimposifion of the largest on the virtual bronchoscopy images.

8. Navigation Software include distance to the target, distance to the end of the pathway. airway diameter, distance to pleura and sphere size.

9. The overall accuracy of the Navigation Software during navigation guidance, measured as the distance between virtual target defined in the virtual bronchoscopy view and actual target in the real bronchoscope video should be between 2.01 ± 0.94 mm.

10. During fluoroscopic guidance, the accuracy should be between 1.5 ±0.89 mm

11. Should allow real time guidance and line view for accurate negotiation in the airways

12. The visualization of the virtual bronchoscopy images should be on a high-resolution screen with real time fluoroscopy view side by side on another monitor.

13. The System should be with following software modules: Dicom Import, Airway segmentation, 3D airway tree, Airway centre-line, Airway quantization, Airway labelling, Vessel segmentation, POE definition (Point of Entry), Path planning, Fiducial planning, 2D view, Luminal view, Endoluminal view, and CT video registration, Procedure plan, Scope calibration, Lung segmentation, Ribs Segmentation, Peripheral vessel segmentation, Vascular quantification, Virtual Doppler, C-arm calibration, Image Registration, CI/Video Registration Module, Setting Module, etc

14. Measurement functions provided by the software should include distance to the target, distance to the end of the pathway, Airway diameter, and sphere size, these functions are limited in accuracy by the resolution of the CT data, The resolution is based on voxel shape, which is the 3-dimensional equivalent of a pixel.

15. The Software should automatically extract airways that are navigable in size defined as 3mm, or able to suggest the non-vascular Point of Entry (POI) making to approach nodule.

16. **The system should be compatible to perform- For nodule access without bronchus sign:**

    Bronchoscopic Trans-Parenchymal Nodule Access (BTPNA) with below features.

    1. Puncture position on airway wall is planned in virtual bronchoscopy view and can be overlaid on real-time bronchoscopy image during navigation. It can improve safety profile and accuracy.
    2. Puncture angle on airway wall is planned in virtual bronchoscopy view and con be overlaid on real-time bronchoscopy image during navigation. It can improve safety profile and accuracy.
    3. The system can generate vessel mapping by CT image in order to avoid vessel during funnelling procedure and improve safety profile.
    4. Navigation with fluoroscopic guidance can verify pulmonary tools position during tunnelling procedure to planned target.
    5. Planned Target is identified as a highlighted area and overlay on real-time fluoroscopy image.
    6. Tunnel projection line is overlaid on real-time fluoroscopy image.
    7. Either C-arm or Digital subtraction angiography (DSA) system is acceptable for Navigation with fluoroscopic guidance.

17. It should provide image views such as CT View, 3D airway view, 3D target View, Extra luminal View, Fluoro View, Fiducial Projection View, Virtual Bronchi Animation view

18. It should have facility to export the procedure plan as .zvc file.

19. The system should be US-FDA and European CE approved.

20. - The system should be able to run on a Windows based software platforms.
    - It should provide both Planning and Procedure modules, installed on a desktop computer and

	mounted on a cart. • The system should be with following: ➢ One cart with two monitors mounted ➢ Software Key • NDI Polaris Spectra Tracker • Bed, knee wedge, headset and comfort pad • C-arm Tracking Tool Mounting Block C-arm • C-arm Calibration Board (with tracking tool) • Foot paddle 21. Facility of transfer of the image or video formats to a USD or a CD should be available. 22. All necessary accessories to make the unit fully functional should be provided and quoted in the tender. 23. Battery backup for atleast 30 minutes.