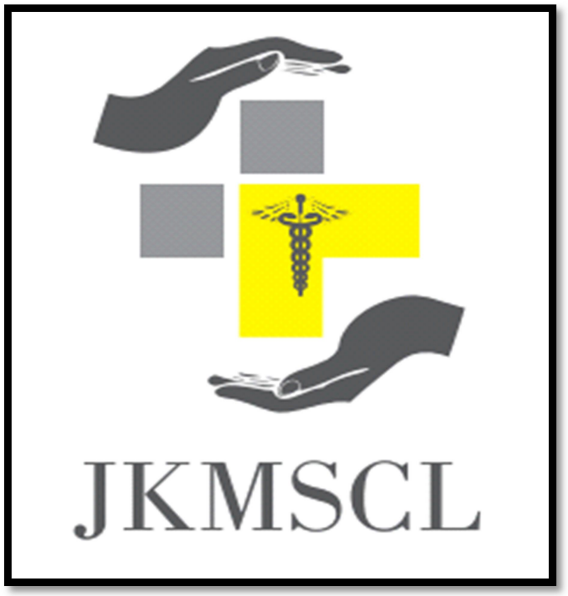
JAMMU AND KASHMIR MEDICAL SUPPLIES CORPORATION LTD.
(Public Sector Undertaking of the Government of Jammu and Kashmir)
Corporate Head Office: Plot No. 58, Friends Colony Satyam Road Trikuta Nagar Jammu
Corporate Office: Opposite J&K Motor Garage Deptt near Hajj House Bemina Srinagar
Telephone: 0191-2478842; 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/ME/2023/599 DT17/08/2023

LAST DATE OF SUBMISSION OF ONLINE BIDS: 25-09-2023 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/2023/599** **DATED 17-08-2023**

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

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email:mdjkmscl2@gmail.com; ismjkmscl2018@gmail.com**website**: www.jkmsclbusIness.com

Tender No. NIT/JKMSCL/M&E/2023/599
Dated: 17/08/2023

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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email:mdjkmscl2@gmail.com; ismjkmscl2018@gmail.com**website**: www.jkmsclbusIness.com

BIDDING DOCUMENT FOR
Procurement of Machinery & Equipment

Tender No.NIT/JKMSCL/M&E/2023/599	**: 17-08-2023**
Date of publication of e-bid	: 17-08-2023
Start date and time for download of bid document	: 17-08-2023
Last date and time for download of bid document	: 25-09-2023 at 1600 hrs
Clarification start date	: 18-08-2023 at 1100 hrs
Clarification end date	: 25-08-2023 upto1400 hrs
Pre- bid conference	: **28-08- 2023 AT 11.00 A.M**
	(at Corporate Office, Jammu/Srinagar)
	Google Code https://meet.google.com/seu-retq-vro
Start date and time for submission of online bids	: 17-08-2023 at 1500 hrs
Last date and time for submission of online bids	: 25-09-2023 at 1600 hrs
Date and time for online opening of technical bids	: 27-09-2023 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. **E-mail id for prebid queries: prebid.jkmscl@gmail.com**

TABLE-1

S. No.	Item code	Name of the item	Average Annual turnover for last 03 years
1	BJ01	Plaster Cutting saw.	05 Crore
2.	BJ02	Operating Microscope for Spine Surgery	05 Crore
3	BJ03	Orthopaedic Bed.	05 Crore
4	BJ04	DVT/VTE pump with battery.	05 Crore
5	BJ05	Robotic system.	05 Crore
6	BJ06	Micro drill with burr set.	05 Crore
7	BJ07	Hydrosurgery system (Versa jet Il).	05 Crore
8	BJ08	Semi Modular OT with integrated operation theatre.	05 Crore
9	BJ09	C-Arm with flat panel.	05 Crore
10	BJ10	C-Arm high end.	05 Crore
11	BJ11	OT Light system.	05 Crore
12	BJ12	Operating Chair & stool.	05 Crore
13	BJ13	Surgical LED Head Light with operating Loupe.	05 Crore
14.	BJ14	ETO Machine.	05 Crore
15	BJ15	Plasma sterilizers.	05 Crore
16	BJ16	Medical washer disinfector machine.	05 Crore
17.	BJ17	Dry heat sterilizers.	05 Crore
18.	BJ18	Autoclave drums.	05 Crore
19.	BJ19	80 c low temp cabinet.	05 Crore
20	BJ20	Vertical Autoclave	05 Crore
21	BJ21	Aspiration Unit high pressure	05 Crore
22	BJ22	Electrosurgical unit.	05 Crore
23	BJ23a-BJ23n	Orthopaedic instruments:- a. Shoulder retraction system b. Collinear reduction clamps c. Broken screw and nail removal set. d. Pelvic set. e. Power flexible reaming set. f. Universal small fragment set. g. Cerclage passer. h. Large fragment set. i. Hand surgery system. j. Wire instrument set. k. Hip preservation instrument set. l. DHS/DCS instrument set. m. General instrument set n. Foot distractor.	05 Crore

24	BJ024	24. Revision Hip & Knee instruments	05 Crore
25	BJ25a – BJ25i	Arthroscopy Instrumentation:- a.ACL PCL reconstruction instrument set b.Shoulder Arthroscopy instrument set. c. Open Latarajet/Coraroid transfer instrument set. d. Shoulder traction kit instrument set. e. Meniscus repair instrument set. f. Foot & ankle instrument set. g. Small Joint Arthroscopy instrument set. h. High Tibial Osteotomy instrument set. i. Arthroscopy training models.	05 Crore
26	BJ26	Cylindrical Horizontal autoclave fully automatic double door 250L	05 Crore
27	BJ27	Cylindrical Horizontal autoclave fully automatic double door 350L	05 Crore
28	BJ28	Spine Endoscopy.	05 Crore
29	BJ29	Electrical Operated bone drilling & cutting system.	05 Crore

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

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 document.

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

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

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

Managing Director
Jammu and Kashmir Medical Supplies Corporation Ltd

Section-I Instruction To Bidders (ITB)

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

Clause No.	Description
1.	Go through the terms and conditions, annexure and other forms of the document carefully and meticulously & get your digital signatures available for 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.**

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

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

Place :-
Dated:-

Signature of the Deponent
Name :
Designation

Annexure IV B

Declaration of Manufacturer/Direct Importer/Indian Subsidiary

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

Date:_____ NIB No.:_____

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

I/we further declare that:-

1. The items *(Name of item)* is/ are ..... (manufactured/imported) at our premises at ..... *(Address of factory & office)*.
2. I/We..... (Name of firm) certify that the quoted model (of quoted item) is of latest technology and is not outdated.
3. I/We do hereby accept condition of 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.

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

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

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

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

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:

Annexure AII

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.**

Machinery/Equipment (Bipartite Agreement)

Annexure IV

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

Agreement: 1

(For Manufacturers/ Direct Importers only)

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

Whereas the (Original Manufacturer/ Direct Importer) (Second Party)) have agreed to supply to First Party (Purchaser),Machinery & Equipment/Instruments with specifications mentioned in the scheduled attached here to at the prices noted herein and in the manner and under the terms and conditions herein after mentioned and whereas the second party has agreed to deposit performances security to first party, equivalent to 3% of the tentative cost/ contract value (rounded to the nearest round number) in the scheduled attached as per clause 11 of the tender document in the form bank of guarantee for the due and faithful performance of this agreement, to be forfeited in the event of Second Party failing duly and faithfully to perform it. Now these presents witness that for carrying out the said agreement in this behalf into execution the Second Part and the First Party (Purchaser) do hereby mutually covenant, declare, contract and agree each of them in the manner following, that is to say,

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

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

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

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

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

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

3. SUPPLIES ON THE RATE CONTRACT OF JKMSCL:

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

4. TERMINATION OF CONTRACT ON BREACH OF CONDITION.

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

4.2. In case the Second Party neglects or refuse to observe, performs, fulfil and keep, or any one or more or any part of any one of covenants, stipulation and provisions herein contained, it shall be lawful for the First Party on any such failure, neglect or refusal, to put an end to this agreement and there upon on every article, cause and thing herein contained on the part of First Party shall cease and be void and in case of any damage, loss, expenses, differences in cost or other from out of deposit/ due for the time being payable to the Second Party under this and/ or any other contract and in case such last mentioned deposit/ dues are insufficient to cover all such damages, loses, expenses, difference in cost and other deposit as aforesaid, it

shall be lawful for the First Party to appropriate the performance security made by the supplier as herein before mentioned to reimburse all such damages, losses, expenses and difference in cost and other money as the purchaser shall be sustained, incurred or been put to by reason of the Second Party (Supplier) having been guilty of any such failure negligence or refusal as aforesaid or other breach in the performance of this contract.

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

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

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

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

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

8. SERVING OF NOTICE TO SUPPLIER

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

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

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

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

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

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

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

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

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

Original Manufacturer/ Direct Importer (Supplier)	Jammu & Kashmir Medical Supplies Corporation Ltd (First Party)
(Second Party) (Signature, Name & full Address with stamp	Represented by General Manager (P&S)/ JKMSCL (Signature, Name & full Address with Stamp)
Witness (Signature, Name & Address)	Witness (Signature, Name & Address)
1.	1.
2.	2.

Machinery/Equipment (Tripartite Agreement)

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

Agreement: 2

(Tripartite Agreement for Authorized Agents/Dealers/Facilitators)

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

Whereas the (Original Manufacturer/ Direct Importer) (Second Party/ Third Party (Authorized agents/ dealer)) have agreed to supply to First Party (Purchaser), Machinery & Equipment/Instruments with specifications mentioned in the scheduled attached here to at the prices noted herein and in the manner and under the terms and conditions herein after mentioned and whereas the second party/ third party have agreed to deposit performances security to first party, equivalent to 3% of the tentative cost/ contract value (rounded to the nearest round number) in the scheduled attached as per clause 11 of the tender document in the form of bank guarantee for the due and faithful performance of this agreement, to be forfeited in the event of Second Party/ Third Party failing duly and faithfully to perform it. Now these presents witness that for carrying out the said agreement in this behalf into execution the Second Part/ Third Party, and the First Party (Purchaser) do hereby mutually covenant, declare, contract and agree each of them in the manner following, that is to say,

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

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

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

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

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

3. AUTHORIZED AGENTS/ DEALERS OF SECOND PARTY:

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

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

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

4. SUPPLIES ON THE RATE CONTRACT OF JKMSCL:

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

5. TERMINATION OF CONTRACT ON BREACH OF CONDITION.

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

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

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

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

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

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

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

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

8.2 SERVING OF NOTICE TO SUPPLIER

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

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

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

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

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

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

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

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

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

Authorized Agent/ Dealer (Third Party) (Signature, Name & full Address with stamp)	Original Manufacturer/ Direct Importer (Supplier) (Second Party) (Signature, Name & full Address with stamp)
Witness (Signature, Name & Address) 1. 2.	Witness (Signature, Name & Address) 1. 2.

Technical Specifications of Equipment's

Plaster Cutting Saw

- LIGHT WEIGHT & HEAVY DUTY
- SHOCK PROOF FIBER GLASS BODY
- 220 V or run on domestic electric supply
- CAPABLE OF CUTTING POP & FIBER GLASS (SYNETHETIC)
- LONG LIFE TEFLON COATED BLADE
- Blade Size 63 mm Dia Qty. 10 Nos.

System Configuration Accessories, spares and consumables

- As specified
- Essential items like one plaster spreader, shear etc

Environmental factory

- The unit shall be capable of being stored continuously in Ambient temperature of 0-50 deg C and relative humidity of 15-90%.
- The unit shall e capable of operating continuously in Ambient temperature of 10-40 deg C and relative humidity of 15-90%
- Parameters:

Power Supply

- Power input to be 220-240 VAC, 50Hz fitted with India plug

Standards, Safety and Training

- Should be FDA, CE, UL or BIS approved product.
- Manufacture should have ISO certification for quality
- Comprehensive training for lab staff and support service
- Till familiarity with the system on site.
- Certified to be meeting Electrical safety standard for Medical equipment's as IEC-60601-1 General Requirements

Documentation

- User/ Technical/ Maintenance manual to be supplied in English
- Certificate of calibration and inspection.
- List of Equipments available for providing calibration and Routine Preventive Maintenances Support. As per Manufacture.
- Service/ maintenance manual.
- List of Important spare parts and accessories with their part Number and costing.
- Log Book with instruments for daily, weekly, monthly and Maintenance checklist. The job description of clearly
- Compliance Report to be submitted in a tabulated and point Wise manner clearly mentioning, the page/ para number with Authenticode catalogue/ manual, without which it will not be considered

SPECIFICATION

OPERATING MICROSCOPE FOR SPINE , NEURO MODEL :

1. **BINOCULAR TUBE :** 0-210° TITABLE HEAD
2. **OBJECTIVE :** VARIABLE OBJECTIVE F= 300-500 mm
3. **Multifunctional Motorise foot switch:**
   A) Motorised magnification B)Motorised fine focus C)Motorised light intensity control
4. **Magnification :** 12.5X Eyepieces (3.4 X,5.1X,8.5X,13.6X,21.3X)

5. **Arm length :** 470mm swivel arm ,1000mm suspension armExtension of arm up to 1620mm
6. **Eyepieces :** WF 12.5 x/18 mm .Dioptre adjustment ±8mm with dioptre lock
7. **Built in filters :** yellow and red free green filter
8. **Light source :**LED (Ultra violet and infrared free)
9. Double beam splitter
10. Assistant binocular
11. ENDO PORT (for camera attachment)
12. All optics coated with MaxLiteTM coatingsMicroscope**.**
13. **Microscope Carrier:** Carrier arm and 120° coupling, tension adjustment locks and counter balance adjustment to ensure optimal accessory weight Offset. Ergonomic handgrips with grip position adjustment.
14. **Base and Wheel**: H-shape base, 100mm anti-staticcastor wheels with brakes
15. **Input:** Universal input 100V-240V AC, 50/60Hz16.**Filters:** Yellow & Green, slider control
17.**Fuse:** Quick acting fuse 2.5Amp
18. **Standard Accessories:** Dust cover for microscopehead and illumination box, set of sterilizable caps
for all knobs. Packed with power cord, instruction manual and installation kit
19. **Camera system:**4K with 4K monitor.

Specification for Orthopedic Bed

- Fowler bed should be of following minimum dimension: 2080 mm L x 920 mm W x 560mm H (without mattress) Should have four section Fixed/detachable (preferably detachable) 18G CRCA M.S. uniformly perforated sheet top for easy breathing and air ventilation.
- Bed frame must be sturdy and stable to support weight of at least 135 kg. The frame structure should be made up of at least 16 G CRC, rectangular / circular pipe of 60 mm x 30 mm.
- Bed frame mounted on round / rectangular tube of minimum 30 mm diameter and 16 G thicknesses, fitted with 125 mm castors, 2 with breaks and having rustproof body.
- All adjustments for fowler position must be obtained from crank shaft, manually operated with stainless steel foldable handle on both the shaft.
- The finished bed must be rust proof, pre-treated and treated with epoxy polyester antimicrobial powder coated to increase the bacteriostatic property.
- Collapsible Type Safety Side Railing: The bed should have a pair of at least 3/4 length side rails, complete Tubular frame work of 25.4 mm dia X 18 Ga M.S round tube, consisting of 3 nos connecting Tubes Made of M.S round tube of 25.4 mm dia X 1.2 mm thk X 1051 mm L. with collapsible mechanism with plunger lock and clamp bracket. It should be attached to the bed frame at two places for more strength.
- Should have easily removable head and foot panels made up of SS with four corner buffers.
- Mattress area of Length 2000 to 2010 mm X Width 900 to 910 mm.
- There should be suitable buffer mechanism to avoid hitting of the bed to the wall.
- Should have provision of fixing suitable rod for hanging intravenous / irrigation fluid bottle on both sides at head end and foot end. Each bed should be supplied with 2 nos. good quality telescopic I.V. rods.

- Should have hooks on bed frame on both side for holding urine / drainage bag (at least 4 Nos. in each bed).
- Each bed must be quoted with one no, four section mattress of dimension (2000 mm X 900 mm) with washable cover of lasting quality. The mattress should be made of high density PU foam of 100mm thickness.
- Back rest and leg rest both shall have three mattress guards.

All SS parts should be matt finish and made of 304 grades / 16 gauze Inbuilt Traction Pulley

EUCE/USFDA , ISO 9001:2015, ISO 13485:2016, CE-4777, GMP , Good Manufacturing Practice , OHSAS 18001:2007, IEC 60601-1:2005 , IEC 60601-2-13:2003, IEC 60601-2-46 ,

DVT/VTE PUMP (With Battery)

1) The device must be able to provide external pneumatic compression for patients who are assessed to be at risk of DVT.
2) The device must provide choices between filling intermittently/uniformly and filling sequentially according type of cuff /garment used.
3) Must provide pre-set gradient intermittent compressions of 40-80 mmHg
4) Must provide following -Inflation/Deflation Time with Cycle Time of 60 seconds
   Inflation: 12 seconds&Deflation:48 second
5) Device pressure should be automatically fixed at 40mmHg for Leg garments.
6) Also device pressure should be adjustable to pressure of 80mmHg for foot garments.
7) Ability to select Single or Double Limb Garment.
8) Must be able to operate even on single leg if required
9) Must have following display with audible and visible alarm prompts for normal working and faults-

Indicator Light

a) Green LED illuminated when power on by AC source; Red LED illuminated when power on by battery.
b) Amber LED for low pressure (flashing signal), high pressure (continuous signal), continuous pressure (flashing signal), and over pressure (continuous signal).
c) Blue LED for pressure setting and single garment function.

Audible Alarm:

Low pressure, high pressure, continuous pressure and over pressure alarms.

10) Must be supplied with accessory -Rechargeable Lithium Batterypack with following capacity: Nominal 2200mAh, 2150mAh minimum
11) Device must begin to charge battery automatically once pump is plugged to AC power source; should have five battery indicator LEDs which will display to show battery's charging level.

12) Must have a swing out hook to hang the device to bed/trolley sides and also carry handle
13) Must have two distinct snap lock connection for tubing to garments
14) Must have Connector Tubing – 120 inches long.
15) Sleeves must be made of brushed nylon &poly-foam lined tricot inner backing and must be free of latex.
16) Following two categories of cuff/Garment compatibility should be there in system –
    a. Calf/Thigh/Foot- Cuff that fills intermittently and uniformly
    b. Calf/Thigh –Cuff that fills sequentially

17. Must provide following Garments/cuffs: 2 Qty Each

a. Calf Garment (pair), Medium. For calf sizes up to 18" circumference.
b. Calf Garment (pair), Large. For calf sizes up to 24" circumference.
c. Calf Garment (pair), Extra Large. For calf sizes up to 30" circumference.
d. Foot Garment, one size that fits left or right foot up to size 13
e. Thigh Garment, (pair) Medium. For thigh sizes up to 29" circumference.
f. Thigh Garment, (pair) Large. For thigh sizes up to 36" circumference.

17) Must be easy to use, portable and weight must not exceed 2.2 kg ms
18) Power input: AC 100V-240V 50/60 Hz, 04A-0.2A
19) Classification must be Class 1, Type BF
20) US FDA Approved-Classification to FDA: Class II, and ISO 13485 Certification
21) Price of Consumables to be given separately.
22) Warranty on System Should be 5 Years.

Surgical Ortho Robotics System for Partial, Total Knee and Total Hip Replacement Surgeries

1. The system should have robotically controlled bone cutting and preparation for total and partial knee replacement with a precision up to 0.5mm and 0.5 degrees.
2. The system should be easy to set up and user friendly for personalize use.
3. The system should have optical and advanced wireless passive marker technology.
4. The system should have a touch sensitive screen for use in sterile field
5. The system should have rapid data transfer technology via USB
6. The system should be US FDA approved and Implants compatible should have at least 10 years clinical survivorship data available.
7. The system should have multi-implant support.
8. The system should have a computer console and advanced camera for real time executions.
9. The system should have the latest available software upgrade.
10. The system should have total and partial knee replacement applications and scope for expanding the platform for future developments.
11. The system should be able to perform the surgery using Burr/ Saw with Surgeon controls.
12. The system should be able to perform the surgery in both robotic and hybrid mode.

13. The system should be imageless i.e. should not require any pre-operative imaging like CT or MRI
14. The system should be easy to move among one OT to other OT or one side to other side of table.
15. The system should not require any pre-operative planning or calibration.
16. The system should have no significant set up time before surgery.
17. The system should have future arthroplasty procedure developments and support all future implants.
18. The bidder should have a full-fledged service center in India for quick support and system should have 95% uptime performance.
19. The bidder should have local and global presence with at least 10 installations in India and 50 installations globally.

MICROMOTOR DRILL STRAIGHT HANDPIECE WITH BUR

- THIS IS A SURGICAL FIBER OPTIC BRUSHLESS MICROMOTOR FOR IMPLANTOLOGY WITH ELECTRONICALLY CONTROLLED TORQUE & SPEED.
- ALL OPERATIONS DURING IMPLANTOLOGY PROCEDURE COULD BE CARRIED OUT WITH COMPLETE SAFETY AND EXTREME ACCURACY USING ONLY ONE HANDPIECE 20 :1

SPECIFICATIONS:

SPEED RANGE : 20~80.000 rpm

TORQUE RANGE : 5~70 Ncm

GEAR RATIO : 1 : 1, 20 : 1, 32 : 1

PROGRAM SELECTION

LCD DISPLAY

CONNECTION TO COOLANT PUMP

FORWARD /REVERSE OPERATION

VARIABLE SPEED PEDAL

COMPACT MICROMOTOR 80.000rpm

UPTO 70Ncm ON THE ROTARY INSTRUMENT

MICROMOTOR WITH CABLE IS STERILIZABLE AND THERMO WASHER IS DISINFECTABLE WITH U.V STERLIZER ADDED UNIT...WITH SURGERY STRAIGHT HAND PIECE AND CONTRA ANGLE HAND PIECE CLEANING SPRAY COMPLETE TOOL KIT.

BURS
1. CUTTING BURS 1 SET..(10NOS)
2. DIAMOND BURS 1 SET (10NOS)

Hydro Surgery System II- Versajet-II

The Hydro Surgery System to be used for patients have extensive injuries with raw area requiring meticulous wound care. The cases of necrotizing infection of limbs and trunk traumatic Wound, Diabetic foot , Pressure Ulcers and wound debridement.

These cases required precisely select, excise and evacuate nonviable tissue, bacteria and contaminants from wounds and soft tissue injuries using a tissue-preserving technique. which increase the healing rate and reduces the hospital stay. This quickly prepares a cleaner, more uniform wound bed, simultaneously addressing multiple barriers to healing and better patient outcome

The System must be having following components with specifications as given:

01.Console should be table top type with front panel displaying

(a) Power on/off with coloured light indicator

(b) LCD panel for digital display of power setting (1 to 10 level) of the equipment with control button for the same.

(c) Receptacle for the hand piece of equipment showing with light indicator, the proper fixation of hand piece to console.

(d) Foot switch receptacle with light indicator for same during use of foot peddles

(e) Light indicator in case of system error

(f) Console should be having receptacle for a detachable power cord 4-5 miters length with suitable conversion for Indian power socket type

(g) The console should be operating on the 200-240 V, 3A 50- 60 Hz power supply and should be having in built safety for fluctuation of voltage.

(i) The operation of power console system should be producing sound level with in the safe permissible limit for operation room/theatre.

(j) The power console should be having no interference with the electromagnetic equipment in the operation room/theatre

(k) Console should be able to function at 4o - 38o C ambient temperature and in humidity ranging from 0 – 100%

02. **Switch Control**(a) there should be detachable foot switch control

(b) It should be having control for changing power setting of console along with operation of the hand piece

(c) The foot switch control should be having 3-5 meter cord length

B: Accessories – Compatible Hand piece –All Assorted Sizes

SPECIFICATIONS FOR SEMI MODULAR OT

Scope of Work – SEMI MODULAR OPERATION THEATRE.

Supply, installation, and commissioning of Semi Modular Operation Theatre consist of following:

1. Wall Panels
2. Ceiling Panels
3. Laminar Flow System
4. Peripheral Lighting (inside OT)
5. Door
6. Touch screen OT control panel
7. Flooring
8. Electrical and Cabling Work
9. X ray view Box
10. Storage Cabinet
11. Magnetic Writing board
12. Operation Theatre Pendants
13. Medical Gas Pipeline (inside OT)

All products should be designed and manufactured according to ISO 9001:2015 standards.
System of Galvanized steel wall panels powder coated, ceiling panels, interior doors and windows should be designed for operating theatres, treatment rooms as well as rooms in which high sanitary and hygienic standards are required.

Following certificates need to submit:

1. International safety standard European CE mark with four digit notified number.
2. ISO 9001: 2015, ISO: 13485: 2016, ISO-14001: 2015; ISO-45001: 2018, ISO 11197, EN ISO 14971 should me mandatory For All accessories Which would be install in Semi Modular Ot
3. Test Certificates for Powder coating, GI Sheet, Flooring, Hepa Filter etc.

1 – WALL PANELS – GI

- Should be manufactured in multi-layer technology.
- From the front top and bottom the edges of the sheet are bent back at right angles. The side edge should be made bent-shaped edge, which should be used for invisible mounting of panel on the base structure.
- The wall panels should be reinforced by plasterboard with a thickness of 12 – 15 mm. The plasterboard should be fireproof.
- The wall panels should be manufactured with minimum Galvanized steel sheet thickness of 1.0 mm.
- The design of panels must allow the easy disassembly to carry out additional changes in the plan and buildings.
- The GI panel should be pretreated with chemicals which ensure proper adhesion and are environmentally friendly. Necessary certificate should be provided.
- Wall panels should be made of:

  Galvanized steel powder-coated by any of RAL color with the addition of antibacterial powder coating, which are embedded in the cover of panels during their production

OR
Tempered glass with graphics strengthened (thickness 5mm) with Galvanized steel (thickness: 1mm).

OR

BOTH

- The powder coating should provide 24-hour protection against bacteria, fungi and mold. This should be confirmed by the appropriate certificate.
- Panels should be mounted on a structure made of galvanized steel of thickness of 1.5 to 2 mm. The structure should be of slotted C channel of minimum 50 mm. It should enable the distribution of medical gases, electricity, sewerage inside the wall.
- The vertical wall panel of the corner should be manufactured from a single element made of GI only.
- The joints between the panels should be between 6 -10 mm and should be provided with silicone gasket to close the gap. The silicon gasket should have high temperature resistance of -10 to + 50 deg c. Necessary certificate should be provided from NABL approved laboratories.

2 HERMETIC SUSPENDED CEILING PANELS

- The ceiling panels should be manufactured with high-quality 0.6 – 0.8 mm thick Galvanized steel and should be powder-coated in any of RAL color with the addition anti-bacterial properties, which are embedded in the shell panels during their production.
- The ceiling panels should not have any infill material like PUFF / rockwool.
- Ceiling tiles should have a standard module sized of 600 x 600 mm.
- Installation Ceiling should create a tight space without any leakage
- The ceiling panels mounted to the structure can be removed individually to access area above ceiling
- Third party test certificate for sheet from material testing lab.

3 – LAMINAR Supply System – SS 304

To guarantee supply of highly filtered air above operating zone by using laminar flow unit with three stage filtration minimum of H14 level.

- Laminar flow unit should guarantee filtered air supply with steady speed of approximately 0,23 m/s.
- Installation of laminar flow unit should serve to prevent bacterial contamination, viruses and dust particles elimination.
- Flanges for air supply into laminar flow unit must be set at least 150 mm from the lower edge of laminar flow unit.
- Size of laminar box should be designed by the Semi Modular operation theatre supplier according to the requirement of air exchange, whole volume of the air in the operating theater, based on type of the operating theater.
- Air volume flow should be designed individually for every single operating theater individually by operating theater supplier.
- The laminar flow unit should be riveted or screwed with sealed gaps.
- Frame of the laminar flow unit must be tightly welded from steel SS 304 only.

Air exhaust ducts

- Air exhausts grids should be provided in corners of rooms and should be connected to the exhaust channels placed behind wall panels.
- The exhaust channels should be connected to air exhaust grids at both locations, close to the floor as well as close to the ceiling.
- Part of them must be provided with regulation valve and metal removable filter.
- Grids should be made from Galvanized steel .
- Metal filter is set on bottom exhaust grids.
- Bottom exhaust grids should be at 300 mm from the floor and upper exhaust grids at 300 mm from the upper edge of the lower ceiling.

4 – PERIPHERAL LIGHTING SYSTEM

- Lighting in the operating theater must be in accordance with European standard and World standards.
- Minimum required IP protection is 54 and intensity of lighting in operating theater should be min. 500 - 1000 lux.
- The color temperature of the light should be 5700 - 6500 K.
- Light fittings should be installed into level with ceiling and will be fitted with opal diffuser.
- Color of visible parts of lighting fitting must be in accordance with color of ceiling cassettes. The intensity of lights should be controlled by electronic stabilizers.

5 – DOORs

AUTOMATIC SLIDING/MANUAL SLIDING/ SWING-HINGE

5 (a) Sliding Door-

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

5(b) Automatic-

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.

5(c) Manual Door-

Doors should be manufactured of the highest quality stainless steel.
Steel (304 grade) thickness 1 mm polished
Doors construction should properly fit with wall panels and should create a uniform system of the operating theater.
Doors should be made as sandwich-type – from two plates, the space between them should be filled with particle board or cyclopentane mixing agent or with

so called honeycomb, glued to the plates. In installation places of hinges and locks, strengthening components must be used.
Thickness of door wings should range in between 40 and 60mm.
Frames should be integrated into the panel system and should be prepared individually for each type of door, made of Galvanized steel 1.2 mm thick.
Fixtures should be made of Stainless steel and adapted to requirements – size and weight of door wings, shape of door handles prevents from hooking the aprons.
The door should be hermetically sealed. Doors should be able to be equipped with door viewers, windows used for room observation.

5(d) Hinged Door-

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. Door opening handle should be strong and sturdy and the handle material should be AISI-304 Stainless steel and glossy finish.

6 – MULTI FUNCTIONAL PANEL – TOUCH SCREEN TYPE

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 21" 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

7 –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 106 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 build-up of electrical charge beyond 100 volts due to antistatic effect. It should fulfil 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-

8 – ELECTRICAL WORK

All the internal Electrical and data cabling would be done by the successful bidder with a preapproved plan and layout. The electrical work should also include distribution board which will have main incomer. The distribution board should incorporate necessary MCBs to control the electric supply to various equipment.

9 – X RAY VIEW BOX - LED

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.

10 – STORAGE CABINETS

- Semi Modular system of built-in operating theaters must enable possibility to install different types of cabinets based on customer requirements, which must be flushed into place behind wall panels.
- Those cabinets will be installed in situation, where customer will require them and they will be part of drawing documentation and price offer given to customer.
- Those cabinets must be in same color shade or SS finish as wall panels and

doors to achieve uniform look of operating theater.

- The storage cabinets will be made of SS304 grade
- The dimensions of each storage unit should not be less than height 1800 - 2100mm x width 900 – 1200 mm x depth 300 - 350mm

11 – MAGNETIC WRITING BOARD

One operating list board should be provided in each operating theatre. It should be made of glass having Magnetic properties and should be flushed to the wall of the operating room

12 – PENDANTS

Should comply with the following standards and specifications:

- Ceiling supply unit shall complies to class II B of medical device directive, European CE certified, and also shall complies with EN ISO 11197 which include Heavy duty ceiling assembly kit, mechanical safety, oxygen enrichment test, electrical safety test and high quality flexible hoses. The device should be CE marked.
- Pendant must meet International safety standard CE mark with four digit notified number
- The device shall meet the basic safety and essential performance as per IEC 60601-1.
- The device shall meet the electromagnetic disturbance - requirement and test as per IEC 60601-1-2.
- Risk assessment for the ceiling supply unit shall be verified as per DIN EN ISO 14971.
- Manufacture shall provide the device with the Symbols to be used with medical device labels, labelling information as per ISO 15223-1
- The medical rail system of the device shall comply with DIN EN ISO 19054.
- The device shall meet the ingress protection class IP2x as per DIN EN 60529.
- The device shall have low pressure hose assemblies for the use with medical gases and must be durable and shall meet medical grade criteria as per ISO 5359.
- The device shall have the terminal unit for medical gas pipeline that meets EN ISO 7190-1
- The device shall have down light for floor illumination.
- Pendant arm should be available in the length of 500,750 and 1000mm. The smooth and corner less design of arm ensure smooth and easy cleaning.
- Arm must rotate 330˚ degree and should have friction break for easy gliding and also should be equip with mechanical end stop
- Column Size should be in the range of 230mm x 275 mm and arm size should be 175 mm x 105 mm with a max load capacity of 80 Kg.
- The pendant must have robust and Semi Modular construction, should be constructed from robust, extruded aluminum profiles. Rounded corners, edges and seamless fittings ensure safety, hygiene and easy cleaning.
- It should have a flexible positioning and the Rotation feature of the pendant column to gives the user the flexibly to position the medical devices up to 330˚ about the vertical axis.

- Accessories like shelf should consists of powder coated aluminum which provide smooth, scratch resistant quality. The corner of the shelf features rubber attachment to protect against collision for safer use.
- High Quality medical rails compliance to the international medical standards are fitted on both side of the shelf that allows user to add more devices on to it. shelf dimensions should have 480 x 400 mm, The load capacity of shelf alone should be 40 kg and together with medical rails it goes up to 50 kg.
- Drawer can optionally be added below the shelf. The smooth slides of the drawer ensure noiseless operations
- The height adjustable infusion pole should be suitable for attachment of up to 4 bottle holder. The stylish and ergonomic design provide scratch free surface.
- The 500 mm long Swivel arm and adjustable pole should allow user to position the bottle holder within wide range of reach

12 (a) : Anesthesia Pendant – Single Arm –

Horizontal Arm: Double Arm - 1000 mm.
Load capacity for Arm – 80 Kg or more
Vertical Media Column: 1000 mm or more
Gas: 2 x O2, 1 x N2O, 2 x Vac, 1 x Air 4, 1 x AGSS-Ventury type
Electrical - 12 nos
Brakes – Friction.
Accessories

- IV pole – 1 Nos
- Shelf with side rails - 1 Nos
  - Size – 630 mm x 480 mm with load bearing of 40 kg or more.
  - Drawer - 1 nos

12 (b): Surgeon Pendant – Single Arm –

Horizontal Arm: 1000 mm
Vertical Media Column - 1000mm or more
Gas: 1 x O2, 1 x Air 7, 1 x Vac, 1Air 4
Electrical - 8 nos
Brakes - Friction
Accessories

- Shelf with side rails - 2 Nos
  - Size – 630 mm x 480 mm with load bearing of 40 kg or more
  - **Drawer - 1 Nos**

15 – MEDICAL GAS PIPELINE

All related copper pipelining inside the OT area is responsibility of the successful bidder. The copper pipes will be as per EN 13348 standards approved from independent authority. It can be indigenous with required certifications.

Area Alarm and Valve unit (Imported): O2, Air 4, N2O and Vac should be part of scope of supply.

16. AUDIO-VISUAL COMMUNICATION SYSTEM

The operating rooms should be connected to the Conference room or hall for video

conferencing and live transmissions. Suitable cable provision should be laid accordingly.

17. The Audio/Video Router system should have the minimum following outputs. The router should be having t2xl2 Digital and upgradable to 18x18 (DVt-t/ DV|-D) with 4K routing capability and open architecture and which is upgradable to future input /output requirements. The routing system should be able to integrate any signal including 4K from within the OT , Audio - Visual system should receive the signal from different sources like Room , camera, Endoscopy camera, overhead camera, Archiving system, c-Arm, Video , Microscope, Mobile ultrasound. The routing system should allow selection of multiple views for simultaneous transmission in PIP and QUAD formats.

18.Loudspeakers and Conferencing System: to be installed within the Operating room. 3- Channel Loudspeaker with Digital volume control and Audio mixer and Audio equalizer should be installed at a

most suitable place. Suitable cable material and a patch panel should be offered as per

the position of the Loudspeaker, The surgeon and his team should be able to do Bi-Directional Audio/Video communication from OT to conference Room. 9' HD Video Conferencing system should be there for external communication from the operating room. The system should be able to transfer high-quality real-time images and audio signals from multipoint at a suitable data transfer speed. The system should be compatible with 1080p full HD resolution for transmission over the ISDN lines or lP Service. The conferencing system should be controlled via the touch screen of the integration system from the OT. Suitable Number / Sets of Transmitters, Receivers and Cables, connectors and accessories should be offered as per the requirement.

19.CENTRAL CONTROT SYSTEM Full High Definition minimum 19inch or more medical grade LED monitor should be wall mounted or desk mounted for the display of live transmission of images and video sequences from the operating Room (e.g., images from c arm, endoscope, OR light camera, Microscope etc.) , should have provision to record the images and video sequences

20. The Full High-Definition and 4K Digital Documentation System should be a high-end computer system based on Windows embedded platform designed specifically for recording, managing, and archiving surgical images and video in native 4K &full HD. The captured full high-definition images & videos can be accessed from the hard drive for printing or saving onto multiple forms of external media which includes CD/DVD, USB Flash Drive & Hospital network. lt should be able to preview and simultaneously record views from two video sources parallel and archive as single patient file.

21.Hard Disk Drive. lt should have at least 1 TB internal for in-system archiving. Also, it should have a feature of real time in-procedure DVD burning besides at-the-end procedure DVD burning.

22. HIGH.DEFINITION MONITOR FOR IMAGE DATA MANAGEMENT SYSTEM

32 inch or more Full High Definition 4K medical grade monitor should be mounted on the separate monitor Arm , Patient and image data should be able to call up and distributed to required monitors in the operating room.

23. Surgical Scrub station : It should be 3 Bay floor model with Provision of Three Water Tap and Should be Automatic Thermostatic sensor based with Manual

Elbow Operated , Size should be 2100mm(L) X 560 (W) X 1380 (H) , Should be made from high Grade 304 Stainless Steel , SS Material Testing certificate from NABL Lab should be Mandatory , Power: DC 6V-220V/50Hz (AC), Battery : 4x AA Duracell / Alkaline Batteries Power Consumption : 0.5 mw (DC), <2 W (AC) , Detection Zone : 12-18 cm ,Water Pressure : 0.05 – 0.6 Mkjpa , Water Temperature : 0 – 60° C, Degree of Protection : IP 56 Available in AC & DC

24. Pass / Hatch Box : 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.

25. . PRESSURE RELIEF DAMPERS

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BOQ

SR.NO.	NOMENCLATURE	QTY.
1	(Modular Operation Theatre) WALL & CEILING SYSTEM Per Sqaure Mtr Complete with all accessories as per technical specification	1
2	Laminar Supply Systems with all accessories as per technical specification	1
3	Peripheral Light Systems Complete with all accessories as per technical specification	1
4	Automatic Sliding Door with all accessories as per technical specification	1

5	Manaual Sliding Door with all accessories as per technical specification	1
6	HINGE DOOR with all accessories as per technical specification	1
7	Medical Isolation Panels cum Surgeon contrl panel with all accessories as per technical specification	1
8	OPERATION THEATRE FLOORING (ANTISTATIC CONDUCTIVE PVC ROLL) per Sqaure Meter Complete with all accessories as per technical specification	1
9	Internal Electric Work Complete with all accessories as per technical specification	1
10	X-RAY FILM VIEWER Complete with all accessories as per technical specification	1
11	Storage Cabinets Complete with all accessories as per technical specification	1
12	SURGEON PENDANT Complete with all accessories as per technical specification	1
14	ANESTHETIST PENDANT Complete with all accessories as per technical specification	1
16	HATCH/PASS BOX Complete with all accessories as per technical specification	1
17	WRITING BOARD (LIST BOARD) Complete with all accessories as per technical specification	1
18	SCRUB STATION Complete with all accessories as per technical specification	1
19	MEDICAL GAS LINE INSTALLATION Complete with all accessories as per technical Specification	1

20	Presssure Relief Demper Complete with all accessories as per technical specification	1
21	Audio - Visual Communication Systems Complete with all accessories as per technical specification	1
22	Audio/Video Router Systems Complete with all accessories as per technical specification	1
23	Central Control System Complete with all accessories as per technical specification	1
24	Full High Defination and 4K Digital Documentation Syestem Complete with all accessories as per technical specification	1
25	Hard Disk Drive Complete with all accessories as per technical specification	1
26	High Defination Monitor For Image Management System Complete with all accessories as per technical specification	1

SPECIEICATIONS OF C-ARM WITH FLAT PANEL DETECTOR

Microprocessor controlled C-am machine with FPD should provides the excellent image quality at low radiation. ideally suited for general surgeries in many application fields and special application such as orthopedics, urology, Gastroenterology, pain management, Spine fixation.

A) FLAT PANEL DETETOR:

- Receptor Type should be of Amorphous Silicon technology
- Conversion Screen should be of Csl
- FPD with 21 x 21Cm size should be provided
- Image Matrix should be lK x IK or more
- Pixel pitch should be 205 um or less.
- ADC conversion should be l6 bit or more

B) Monitors:-

- 02 Nos. 19" High Resolution medical grade Monitors mounted on mobile Trolley.

D) C-ARM MOVEMENTS: Fully counter balanced all movements.

1. Rotation: 180 Degrees.
2. Motorized Up down: 420mm or more
3. Horizontal Travel: 210 mm or more
4. Are Orbital Movement: 120 Degrees.
5. Wig Wag: 12.5 Degrees.
6. Source to Image distance should be 97Omm.

7. Depth of "C" should be at least 650mm
8. Free space should be 780mm or more

E) X-RAY GENERATOR:

1. High Frequency (50 KHz)
2. Output power should be 3.5KW.
3. Fluoro & Rad. Kv 40 to 120 KV.
4. Max. mÀ (Digital Radiography) SPOT: 25mA or more.
5. Pulse Fluoroscopic mA (peak): -

- up to 20mA (Fluoro Mode)
- up to 25mA (Cine Mode)

F) X-RAY TUBE:

- Monoblock tube head having dual focus stationary anode X-Ray tube of focal spot 0.6mm (small focus) & large focus (1.2mm) should be provided.
- Anode Heat Storage capacity should be 70KHU or more.
- Collimator:- Parallel shutter collimator with Preview Collimation

G) CONTROL: Control should have the following:

LCD Display:

A very compact, soft touch control panel with 20X3 (column x rows) LCD display on which KV, mAs, Fluoro mA. MAG, Heat unit and Various Interlocks e.g KV interlock, Filament interlock and Thermal interlocks are displayed on LCD Screen for self diagnosis.

Console Panel has Following Functions & Indications:

- Machine ON/OFF switch.
- Fluoro timer reset Switch (For reinitiate the exposure after 300 sec fluoro timer)
- KV and mAs increase and decrease switches.
- ABS (Automatic brightness Stabilization) selection for hands free operation-also known as ADR. X-Ray ON Switch with indicators.
- Switches for up/down movement of "C" on both side of' panel.
- Collimator control switches. (To open/ close Horizontal and Vertical Shutter
- Laser centering device.
- Image shift from live view to Reference view.
- Average switch to select the average in software for image as per requirement. Exposure lock switch
- Dose mode selection switch(Full, Half and Quater mode)
- Fluoro save switch to save fluoro image manually.

H) MEMORY SYSTEM should include the following: -

Image Acquisition:

- Image processing software with real time image capturing, storage, and display in IkXIk format,
- Variable Frame Rate (1-15) FPS
- Boosted fluoroscopy (CINE) at 15 FPS with real time recording on hard disk drive.
- Digital Radiography (SPOT) exposure mode is available.
- Continuous fluoroscopy exposure mode is available.

Image Processing:

- Real time noise with reduction with Averaging up-to l6
- Recursive filter for image smoothing, DRC, Contrast, Brightness, Sharpness. Interactive Zoom and Pan
- Pre-programming for image setting for different operating
- Modes Image Inversion
- Dynamic Noise Reduction Filter (DNF) for moving anatomy
- WW/WL level adjustments
- Image Flipping and Image Rotation Clockwise or Anti-clockwise.
- Fast Automatic Brightness control
- Software driven Fast Automatic Brightness System (ABS)
- Metal Compensation
- Torch feature to view enhanced contrast for particular circular region
- Cine Loop Play(Auto and Frame wise)
- Real time Image Flip(Horizontal/Vertical)
- Real Time Image Inversion
- Colorize Image feature
- Real time Heat Unit calculator for remaining heat content available for X-Ray Tube

Collimator:

- Ultra fast Preview collimator

DICOM Features:

- Connectivity with DICOM workstation/PACS
- DICOM Send/Storage Commitment
- DICOM Print
- DICOM Worklist/MPPS

Storage:

- Upto 10,000 images
- Fluoro saving as per user need
- LIH saving as per user need

Annotation:

- Rectangle
- Ellipse
- Line
- Text

Measurement

- Stenosis measurement
- Length Measurement

PACS Connectivity:

- Multiple Nodes can be configured.
- Single Multiple Image Tagging to transfer into PACS/ Workstation

DSA:

- Up to 10 FPS image acquisition for DSA
- R-Mask

- Land marking
- Pixel Shift

Multi- Language GUI Support:

- Application can be configured as Any Language GUI.

Miscellaneous:

- Paper Printing
- Different format of image saving like JPG, BMP, TIF, png, AVI Loop in USB Pen drive
- Image Data to Export to DICOM CD,
- Music view/Image layout 2x2.3x3.'Flip./Rotation etc.

I) Power requirement:

- The unit should be operable on Single Phase 230 V±10% AC, 50 Hz
- Inbuilt electronic voltage stabilizer should be provided.
- UPS for power backup of the software should be provided.

J) OTHER REQUIREMENTS:

- The company should be ISO and ICMED certified company.
- The quoted model should be CDSCO certified for Sale and for Distribution of medical devices.
- Offered Detector should be ISO 9001 certified with mentioned Make and Model of OEM
- Generator and detector should be from same manufacturer.
- The unit should be approved by AERB.
- The company should have a service centre in State.
- The company should have proven track record in Govt. sector.

MOBILE C-ARM WITH FLAT PANEL DETECTOR HIGH END

A) X-RAY GENERATOR

1) Must have Rotating anode X-Ray tube

2) Must have dual focus :0.3/0.6mm

3) Must have maximum anode heat content of 350 KHU or more

4) The Generator should be Monoblock with 40 kHz high frequency or more with microprocessor controlled.

5) A-ray generator output should be 25 kW

6) It should be powered by integrated heat exchanger systems, so that the system has the heat withstanding capacity of minimum 10 MHU to prevent system failure due to overheating during procedure.

7) 1200 W continuous heat dissipation should be possible

8) It should have Total filtering :> 4.3 mm A, including 0.Imm cu

9) Power technology of the system should be such a way that will avoid the need to replace the battery package.

B) OPERATING VALUES

Fluoroscopy:

1) KV Range : 40 to 120 kV or more

2)mA range: 1.5 to 250mA or more

3) pulse rate: 1,2,4,8,12.5,25 pulses per second

C) Digital Radiography

1) kv Range : 40 to 120kV or more

2) mAs range:up to 250mA or more

D) Collimator system:

1) Dedicated pre collimator for FPD

2) Collimator Rotation: ± 90°

3) Virtual Collimation

4) Image rotation without radiation

E) Flat Panel Detector system

1) Field Size: 29X 29 cm or more.

2) Detector Matrix should be of 1.5 KX 1.5 k pixels,

3) Laser localizer integrated in the detector housing for avoiding unwanted exposure

F) Monitors:

1) Monitors should be of High contrast & High brightness twin flat screen monitors

2) Screen size : 18 " or more

3) Resolution :1280 x 1024 pixels

4) Viewing Angle (Horizontal & Vertical): 170°

5) Contrast Ratio : 1000:1 or more

6) Brightness: 600cd/m or more

G) The following real-time and post processing digital processing functions should be possible

1) Edge enhancement filter.

2) Zoom 3 levels (post processing)

3) Windowing and step windowing

4) Digital image rotation and reversal should be possible without radiation

5) Recursive filter at 4 levels

6) Greyscale inversion

7) Digital Shutters (Image cropping)

8) Anatomical programs to determine ideal noise reduction, pulse width, etc. specific to anatomy should be possible

9) Digital memory with storage capacity of at least 100,000 images or more and Digital Image processing up to 32 bit should be possible

10) System should have DICOM interface for digital network integration with storage, query and retrieve capability.

H) User Interface:

1) TFT touch screens should be available on C-arm stand and monitor stand it should be synchronized

2) Intuitive icons for easy use

3) Multifunctional foot switch with advanced functionality

I) Dimensions & mechanics:

1) C-arm should have the following movements

2) Motorized Vertical travel :> 40 cm or more

3) Horizontal travel: > 20cm or more

4) Orbital Rotation should be at least 160 or better

5) Angulations:± 200° or more

6) Focus image receptor distance : 100cm or more

7) C-Arm vertical free space: 80 cm or more

8) C-Arm depth: 65 cm or more

9) Brakes: Steering and breaking lever with parallel movement of the mobile stand in all directions should be possible

J) Certification:

Quoted equipment should meet **European CE and USA FDA** approval standards. The system offered should have AERB Type approval and should be approved by **CDSCO (MD-15)**

Accessories:

1) Suitable with atleast 30 minutes backup -1 No.

2) Lead Aprons Qty- 10 Nos

3) Thyroid Shield, Qty- 10 Nos

4) Gonad Shield, ay- 10 Nos

5) Lead Spectacles, Qty- 10 Nos

6) Steilisable covers-2 Nos.

Surgical LED Head Light with Operating Loupe

There's LED. And there's LEDH. has set a new standard which maintains that only the best is good enough, from the selection of materials to processing, from light intensity to dimmability, and from thermal management to a colour rendering index as high as possible. That's what we call LED in Quality - or LED$_{HQ}$

Adjustable illumination spot size: 30mm to 80mm spot size range (at 420mm working distance) to fit any examination situation.

Bright and homogenous illumination. Absolutely bright light spot that is uniform from edge-to-edge for the perfect illumination in all examination situations.

Stepless light intensity control. Optimal brightness setting prevents reflexes.

Flexibility. Flexible power source options: 100% mobility with a choice of cable-free m Pack UNPLUGGED head-worn battery or mPack belt-worm battery pack.

Coaxial illumination. Coaxial design ensures a completely shadow-free image and allows for excellent illumination of difficult to see areas.

Comfortable and secure fit. The Professional L headband has multiple adjustment points and soft padding for comfort and stability - even during long examinations.

Optional filters. Polarisation filter P2 improves contrast and yellow filter reduces blue light.

Surgical loupes 2.5x and 3.5x

Technical specification	
Illumination	Typ. 90,000 lux*
Colour temperature	Typ. 5,500 kelvin
LED operating life	Typ. 50,000 hours

Spot adjustment	30mm to 80mm at 420mm working distance
Angle of declination	Stepless and individually adjustable for every examination
Rheostat	Headband-mounted
Operating time	Typ. 8.5 hours with mPack and typ. 3.5 hours with mPack UNPLUGGED of continuous ON time at full power

Specifications of ETO Machine

1. The Ethylene Oxide (ETO) Gas Sterilizer Should be Fully Automatic with software Controlled Operation System Suitable for Low Temperature Sterilization of Heat and Moisture Sensitive Medical and Surgical Item
2. The Chamber Should be Preferably Rectangular with Capacity of 200 to 250 L or 8 CubicFT.
3. The Chamber Should be double walled and made of suitable material which is resistant tocorrosion and gas.
4. The interior of the Chamber should be smoothly finished to minimize gas deposits.
5. The Sterilant Should be 100 % ETO Gas.
6. Sterilizer should have automatic gas puncturing system and work under NEGATIVE PRESSURE ensuring operator safety.
7. The Sterilizer Should Work on single dose Cartridge of ETO with 2 D Barcode for recordkeeping.
8. The ETO Cartridge should be EPA registered and should be of the same make of the sterilizer.
9. Sterilizer should have System for Variable Parameter Settings of Time, Temperature , Relative humidity (RH), Gas Exposure and Aeration Depending on Load and Composition of materials.
10. The Sterilizer should have video Screen for display Status of Program Cycle Parametersincluding Pressure temperature and RH.
11. The Sterilizer should have Device of data storage for at least 100 cycles as well as facilityof Internet and USB Connection for Transfer of data of the Cycle.
12. The Sterilizer should operate for the following minimum essential program cycles.

(i) Sterilization cycle for heat Sensitive objects that ensure Temperature from 33 to 55 degreeC with subsequent aeration for protection of the operating personnel.

(ii) Aeration cycle to extract residual gas out of the sterilized objects after eachsterilization cycle.

(iii) Automatic chamber evacuation cycle with subsequent venting before opening the doorlock to avoid any gas exposure to operating personnel.

13. The Sterilizer should have Single door with suitable Safety interlocking arrangement so that the Sterilizer process does not start unless the door is properly locked in position.
14. The Equipment should work on Negative Pressure to avoid any leakage of ETO to theSurroundings and Exposure of Gas to the Operator.
15. Sterilizer should have in built Alpha-numeric Graphical dot matrix / thermal Printer toPrint date, Program type and Program Parameters.
16. The manufacture should also provide ETO protection kit along with the equipmentspecifications
17. Consumables to carry out sterilization cycles (min 50 cycles) with packaging papers.
18. Incubatory should be provided free of cost for microbial testing of biological indicators.
19. There should be provision for safe disposal of toxic gases as per govt norms.
20. Should be provided with heat sealing machine along with its accessories (for sterilizingvarious equipments)
21. A box of class 5 sterilization indicators should be provided.

Conditions for tender:

1. All accessories should be from same Original Equipment Manufacturer.
2. The equipment should be USA FDA/ European CE (from a notified body) approved.
3. Installation process should be performed free of cost by O.E.M trained service engineers / service representatives on OEM letterhead within 15 days of supply, with the mandatory provision of providing preventive services visit of OEM trained Service Engineer/ Service Representative quarterly per year till completion of warranty period (i.e. 20 visits for the first 05 years) & further quarterly visits (04 visits/year) year till completion of CMC period.
4. The equipment should have Brand name / Model Number embossed / etched on the equipment.
5. All the technical specifications in the compliance statement must be supported by Original Literature from the firm / O.E.M with highlighting Numbering & flagging of all technical certificates.
6. Offered Equipment should have strong Govt. Installation base
7. Offered Equipment should have Regional After Sales Service Center of the Original Equipment Manufacturer in the north region for 90 % uptime guarantee.

8. Offered Equipment should have Warranty for 05 years and should submit Institutional Price list of required consumables & accessories.
9. For the offered main unit, the essential, optional required consumables'/accessories' shelflife should be declared on the Original Equipment Manufacturer's letterhead.
10. In case of technical snag / failure / breakdown the response time for the inspection should be within 24 hours and repair within 05 days otherwise provide a service machine till the period of recovery of breakdown of the unit, failing which attracts penal action as per decision of institute / hospital.
11. For offered equipment the Training of technical staff and users should be performed by Original Equipment Manufacturer trained Service Engineers - Service Representatives free of cost.
12. Company should quote their latest model.
13. As a tendering process the demonstration of the offered Equipment is Mandatory at hospital / institute premises at bidders cost.
14. At least 2 latest performance certificates should be provided with tender.

PLASMA STERILIZER

PRODUCT SPECIFICATIONS	
•	Used to sterilise medical equipment and instruments made of heat sensitive materials products of synthetic and polymer materials, medical optical systems, medical electric instruments and electrical power cables, rigid endoscopes, ultrasonic medical devices.
•	Economical: extremely low operating cost, lowest per cycle
•	High-efficiency and high-productivity
•	Easy to operate using colour touch-screen
•	Eco-friendly: The process by-products are non-toxic oxygen and water vapour
•	Low temperature sterilization - Safe and environment
•	Convenient and reliable sterilization
•	Advanced configuration with Reassuring feature
•	Rectangular Plasma Sterilizer 15" x 15"
•	Chamber Volume 55 Litre
•	Chamber Type Rectangular
•	Sterilization Temperature 50 C ~ 60 C
•	Sterilant 50% Hydrogen Peroxide
•	Sterilization Process
•	Warm-Up – 54+5 min
•	Advanced – 50+5 min
•	Standard – 34+5 min
•	Surface- 32+5 min
•	Plasma Generation Device
•	Input Voltage – 220 Vac Single Phase
•	Output Voltage – 15 Kvp. 20Khz

•	Printer Head: 50 Km, 100 million Pulse
•	Display Touch Panel (7" LCD)
•	Operating System Windows CE Embedded
•	Service Voltage 230 Vac, Single Phase
•	Power Consumption 2 KW
•	Chamber Dimensions 400 x 400 mm
•	Shelf Strength Approximate 35 kg
•	Features: manufacturer & supplier should have ISO 9001, ISO 13485, FDA/EU declaration of conformity/BIS certificates EN-285,WHO certification, EN 12469
•	ELECTRIC SAFETY conforming to IEC 60601 standards, contamination clearance certificate.
•	Manufacturer should supply hard & soft copies of user manual, technical specifications along with certificate of calibration (ISO 17025) & inspection.

MEDICAL WASHER DISINFECTOR

PRODUCT SPECIFICATIONS	
•	**Fully automatic washer disinfector machine** is a new kind of equipment developed according to the procedures specified by related standard for cleaning and sterilizing operations using wash solutions prepared with soft water and rinsing agent, it performs spraying cleaning of the articles in the inner body and high temperature sterilization at 90° C, thoroughly removing pathogenic bacterium while cleaning away the dirt and blood stains from the surfaces of medical instruments.
•	Then the machine also dries the wash articles in the cleaning compartment via the built-in drying system so that what you finally get are dry, clean articles Fully automatic washer disinfector machine is **suitable for hospital operating rooms, Fully automatic washer disinfector**, equipments rooms and supply rooms where quick washing and sterilizing are required.
•	**Product Specification**
•	**Rated Capacity : Approximate 70 kg**
•	**Loading Type : Front Loading**
•	**Usage/Application : hospital**
•	**Automation Grade : Automatic**
•	**Features:**
•	High efficient cleaning system, designed with reliable pump, optimized spray arm and nozzles and self-cleaning program
•	Rapid and efficient drying system, designed with independent air heater, HEPA filter and drying process
•	Water heating temperature can reach 99°c, while hot air drying temperature can reach 120°C
•	Professional configuration design-stainless steel for corrosion resistance, reinforced glass window mounted to achieve a clear view on washing process
•	PLC touch screen control with preset 12 programs and 99 customised programs
•	Safety protection-electronic security door lock to prevent unexpected door opening, water & drying air temperature dual control and equipped with emergency switch

•	**Specifications:**
•	All inner parts are of Stainless steel quality 316 or above
•	All outer body parts are SS or powder coated
•	Operated with high pressure and high volume of disinfectant liquid media
•	Automatic operation through PLC control panel with 2 pre programmed cycles
•	Stainless steel high pressure turbines
•	Operating temperature: 93°C
•	Automatic Enzyme, detergent & lubricant Dozing
•	High quality glass sliding doors (Double / Single)
•	Ultrasonic cycle & Drying cycle are optional
•	Provided with inbuilt steam generator
•	Features: manufacturer & supplier should have ISO 9001, ISO 13485, FDA/EU declaration of conformity/BIS certificates EN-285,WHO certification,
•	ELECTRIC SAFETY conforming to IEC 60601 standards, contamination clearance certificate.
•	Manufacturer should supply hard & soft copies of user manual, technical specifications along with certificate of calibration.

DRY HEAT STERILIZER:

PRODUCT SPECIFICATIONS		
•	Triple Walled Outer MS/GI Powder Coated & SS Chamber, Insulated, Fitted with Air Heaters and Circulation System **with Timer and Alarm System.** Digitally controlled 5°C above ambient to 250°C Accuracy of ± 1°C. Workable on 220 / 230 volts A.C.	
•	Available Sizes	Approx. in Liters
•	355 x 355 x 355	43
•	455 x 455 x 455	90
•	455 x 605 x 605	120
•	605 x 605 x 605	215
•	605 x 910 x 455	240
•	605 x 910 x 605	325
•	Features: manufacturer & supplier should have ISO 9001, ISO 13485, FDA/EU declaration of conformity/BIS certificates EN-285,WHO certification, EN 12469	
•	ELECTRIC SAFETY conforming to IEC 60601 standards, contamination clearance certificate.	
•	Supplied with set of Chemical Indicator, Biological Indicator, Spare gasket, Fuse	
•	Manufacturer should supply hard & soft copies of user manual, technical specifications along with certificate of calibration (ISO 17025) & inspection, 3 ys continuous SEFA & ISWASTM standards to meet strict international norms so that they can supply sturdy instrument.	

AUTOCLAVE DRUM

Dressing Drum Seamless (Joint less) (S.S): -

Available Sizes
6” x 4”
6” x 6”

9” x 5”
9” x 9”
11” x 5”
11” x 9”
12” x 10:
14” x 5”
14” x 9”
15”x 12”

-80 C Low Temp Cabinet : SPECIFICATIONS

1. Microprocessor control, Large LED display inner temperature clearly, and with easy view.
2. The inner temperature can be adjustable at the range of -40°C~-86°C, with an increment of 0.1°C;
3. Lock and password for protection to prevent arbitrary adjustment of operating parameters
4. Optional 7"color LCD touch screen display system.
5. Controller Functions :-Large digital display & adjusting keys, High/Low Temperature, Hot Condenser, Power Failure, Sensor Error, Low Battery, High Ambient Temp, Sound and light alarm, remote alarm terminal.
6. Should have Cooling performance -86°C
7. Should have Temperature Range -40°C ~-86°C
8. Instrument should have direct cooling type.
9. Should have Hydrocarbon Mixing refrigerant
10. Exterior Material should be Galvanized steel powder coating
11. Interior Material Galvanized steel powder coating
12. Insulation Material should be PUF+VIP
13. Should have Capacity of 450L to 500L
14. Should have Capacity for 2 inch (300 to 350 boxes)
15. Should have 02 Inner door.
16. Thickness of cabinet foamed layer should be 90mm
17. External dimensions of freezer should be (WxDxH) 620mm-650mmX 680mm-700mm X 1300mm – 1350mm
18. Should have optimized cascade refrigeration technology, SECOP compressor to reach high refrigeration effect.
19. Should have installations of quoted model or similar model in any PSU, Govt. Institute or Govt. department.
20. Instruments should be CE / ISO / MSME / MANUFACTURING NSIC certified.
21. IQ/OQ/PQ certificate required.

VERTICAL AUTOCLAVE :

PRODUCT SPECIFICATIONS	
•	Chamber Vol: 98 liter (600X450MM)
•	Electrical Power: Voltage: 220/230 Volts. Working Load 4 KW.
•	Working pressure and temperature – 0.2 -1 kgf/cm^2
•	Sterilizing temperature up to 121 degree C
•	Material of Construction : Inner chamber made of stainless steel 304 grade
•	All units are hydraulically tested up to 50 psi.
•	Heater Plate. Brass/Stainless Steel
•	Features: manufacturer & supplier should have ISO 9001, ISO 13485, FDA/EU declaration of conformity/BIS certificates EN-285,WHO certification, EN 12469
•	ELECTRIC SAFETY conforming to IEC 60601 standards, contamination clearance certificate.
•	Manufacturer should supply hard & soft copies of user manual, technical specifications along with certificate of calibration (ISO 17025) & inspection, 1 yr. continuous SEFA & ISWASTM standards to meet strict international norms so that they can supply sturdy instrument.

ASPIRATON UNIT HIGH PRESSURE with INTEGRATED CASTOR WHEEL TROLLEY

1. Should be durable body of metal with low vibration for High vacuum suction unit run on electricity with two suction jars of 3 liters capacity each. If one jar filled, it should be automatically/manually connected to other jar.
2. It should be heavy duty and noiseless(less than 40-45 dB), with piston/silent vacuum technology.
3. Should have a vacuum regulator.
4. Foot switch for hands free operation.
5. Back side basket for spare suction tubes etc.
6. It should be capable of operating 5-8 hours continuously.
7. Should be able to create desired maximum vacuum in least possible time, vacuum should be up to –93 K pascal (700 mmHg ±10) with minimum capacity of 60L/min.
8. Twin bottle facility, reusable unbreakable canister Polycarbonate/Polysulfone with 3 ltrs capacity with handle.
9. The canister should attach to the main unit via direct docking (quick mount mechanism) without use of any tool/tools.
10. Should be provided with hydrophobic filter for machine protection.
11. Light and maneuverable fitted on a mobile trolley.
12. Should be European CE or USFDA for quality and safety purpose.
13. Equipment should be supplied to minimum 50 Govt. institutes. (List should be attached with supply order in technical bid).

ELECTRO SURGICAL UNIT (MONOPOLAR-BIPOLAR)

1. Device should be a 400 watt microcontroller based radiofrequency system.
2. Device should be able to operate with Indian Standard Mains Supply Power – 220 – 230 Volts AC,
3. Power efficiency ratio (PER) of the device should be 98.
4. It should have 2 step activation process to switch on the device, one switch at the back of

the device and another switch on front bezel of the device for added protection to mother board of the device.

5. Device should have self test ability before powering on.
6. It should have continuous RF output and pulsed RF output.
7. Device should be able to measure impedance and vary the power output.
8. Device should have Smart Tissue Sensing Technology for measuring tissue impedance at real time basis through which algorithm-based modulation of energy delivery can happen creating desired issue effect.
9. Device should be enabled with PRECQM Technology. Patient return electrode contact quality monitoring (PRECQM) to ensure patient safety from burns.
10. Device TFT Display should have an indicator identifying the usage of split and non-split pad.
11. Device should register all the error shown by the device with date and time.
12. It should have a TFT display with a 2 step Lock/Unlock system for the touchscreen to avoid unintended change in power settings.
13. Device should have 2 monopolar, 1 bipolar output.
14. Device should have the ability to deactivate any output port if the user requires so.
15. Device should have safety timeout feature for monopolar activation between 10secs to 90 secs.
16. Device should display the active mode on the screen.
17. Device should be equipped with wireless Bluetooth footswitch and should be compatible for wired footswitch as well.
18. The footswitch should be 3 pedal and multifunctional (upgradeable to ligation and bipolar resection in saline).
19. Device should have footswitch indicator on screen to enable the user to correctly identify the corresponding pedal to the desired mode.
20. Device should have a toggle mechanism to allow user to shift between various modes.
21. All modality controls should be only touch screen.
22. It should have User Programmable profiles (999 storable profiles).
23. User profiles should be editable.
24. Device should have the safety standard of PRE-CQM along with display of contact quality.
25. Device should have an external activation volume control.
26. Device should have a reset button which allows the user to get the previously activated settings on the device prior to shutdown.
27. Device should have all the following modalities:
    a. Monopolar Pure cut -350 ohms with crest factor of 1.5
    b. Monopolar Lap cut -350 ohms with crest factor of 1.5.
    c. Monopolar Blend cut -350 ohms with variable crest factor.
    d. Endocut – 300 ohms with variable crest factor.
    e. Monopolar (Coag) Low Spray -500 ohms with crest factor of 9.
    f. Monopolar (Coag) High Spray -500 ohms with crest factor of 9.
    g. Monopolar (Coag) Fulgurate-500 ohms with crest factor of 7.
    h. Monopolar (Coag) Low Desiccate-500 ohms with crest factor of 5.5.
    i. Monopolar (Coag) Hi Desiccate-500 ohms with crest factor of 5.5.
    j. Monopolar (Soft) Desiccate-500 ohms with crest factor of 5.5.
    k. Bipolar – Standard -100 ohms with crest factor of 1.5.
    l. Bipolar – Force-100 ohms with crest factor of 1.5.
    m. Bipolar – Precise – 100 ohms with crest factor of 1.5.
    n. Auto start Bipolar – 100 ohms with crest factor of 1.5.
    o. Bipolar – Micro Cut- 100 ohms
    p. Bipolar Precise Cut – 100 ohms
    q. Bipolar Dissect – 5 levels
28. Device should have Endocut mode.
29. Device should have the ability to perform Bipolar cut and bipolar coagulation from the same port and instrument.
30. Device should be supplied with re usable dissection instrument with multiple insert options.

31. Device should be enabled for simultaneous coagulation with two monopolar connectors.
32. Device should be upgradeable to ligation and/or bipolar resection in saline.
33. Device should not weigh more than 7 kgs.
34. It should have a variable blend mode with user changeable percentages.
35. Device should contain RS232 port for OR integration
36. Device should have the ability for remote device diagnostics.
37. Device should have the ability for remote software diagnostics.
38. Device should have the ability for remote software upgradation.
39. Device should have IP rating for protection against dust ingress certified by NABL accredited labs from India.
40. IEC 60601-1 standard test report of the device from NABL accredited labs from India.
41. IEC 60601-1-2 standard test report of the device from NABL accredited labs from India.
42. IEC 60601-1-2 standard test report of the device from NABL accredited labs from India.
43. The foot operated foot switch should IP65 rated standard certified by NABL accredited labs from India.
44. The supplied device brand should have ISTA 2A packaging test - pass report.
45. The Manufacturing facility of the brand should be ISO 13485 certified.
46. The Device should have European CE certification (four digit), for which certification can be verified on notified body website.

General Shoulder Instruments
(Shoulder Retractor System)

For the surgeon the approach is of key importance in shoulder surgery. The challenge arises from the regional complexity of anatomical structures and layers which impede wide access to bony structures. The system hence which is solely dedicated and could facilitate deltold retraction, humeral head exposure and glenoid exposure and thus allow a traumatic should be there for use in practice.

The shoulder retraction system should come along with the following features and benefits.

Rounded edges: The instruments should be designed according to the newest standards, rounded edges and soft tissues friendly.

Prevent slippage : The system should have the ring design for the ring retractors which should prevent slippage.

Optimized working space: The ring retractors should have a very distal angulation which should enable the surgeon to provide a better working space.

Facilitate reaming: The shoulder retractor system should have the design of drop-shaped ring retractors to create a comfortable working space for the reamer and additionally guide the reamer

Optimal grip: The shoulder retractor system should have spreader for gienoid exposure which should have an optimal sized ring on one end and small teeth on the other end for optimal grip.

None the less the shoulder Retraction System should be having a Delta Retractor which should facilitate the surgeon for gentle retraction of the deltoid muscle in order to expose the proximal humerus and for subsapularis retraction in order to expose the anterior glenoid rim.

The shoulder Retraction System: Should also have a Delta Retractor, pointed for gentle superior retraction of the deltoid muscle to enable the surgeon lever it against the acromion, where by the instruments pointed tip should slide under deltoid to expose the subacromial space.

The Shoulder Retraction System: should also have a Ring Retractor, pointed, delta shaped to allow surgeon achieve stable deltoid retraction. The ring should engage the greater tuberosity. Thus help the surgeon from preventing distal slippage of the retractor.

The Shoulder Retractor System: Should be having a feature which should allow Humeral Head Exposure as well.. Hence the system should have ring Retractor and Ring Retractor, narrow the

ring anterior capsule, inferior capsule, the sub-scapularis and enable the surgeon expose the axillary nerve. The retractors should have a very distal angulation which should provide a better working space.

The Shoulder retractor system: Should come along with Bone Retractor, Humeral Head for exposing the humeral head i.e. to obtain anterior dislocation of the humeral head. This retractor should function similar to a shoehorn.

The Shoulder retractor system: Should come along with Ring Retractor drop-shaped and drop-shaped, narrow to create a comfortable working space for the reamer. The retractor should facilitate orthogonal glenoid exposure and should provide better retraction of the humeral head and should facilitate.

The Shoulder retractor system: should help have Glenoid Exposure through the ring retractor and the system should have slight distal angulations with shoulder spreader, left bend and shoulder Spreader, right bend for lateral retraction of the humeral head in order to gain access to the posterior capsule.

Also the system should help surgeon for distal retraction of the humerus in order to gain access to the subacromial space and for posterior retraction of the humerus in order to gain access to the subacromial space.

Description	QTY
Delta Retractor	Each
Delta Retractor, pointed	Each
Bone Retractor, Humeral Head	Each
Ring Retractor	Each
Ring Narrow	Each
Ring Retractor, Drop-Shaped	Each
Ring Retractor, Drop- Shaped, narrow	Each
Ring Retractor, delta-Shaped	Each
Shoulder Spreader, left bend	Each
Shoulder Spreader, right bend	Each

SPECIFICATIONS FOR COLLINEAR REDUCTION CLAMP

1. Company should be at least in its 5 years of operations at the date of submission of tender.
2. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
3. Physical demo should be arranged at the time of requirement.
4. Instruments quality should meet the international standard.
5. Company should have European CE certificates with Notify Body Identification Number.
6. Company should provide material certificates.
7. The Principal company should have registered office in India and approved by Government of India by same name.
8. Bidder must quote all the products of same principal.
9. Warranty for 02 year

- The instruments should allow for fracture reduction with a collinear sliding mechanism to apply minimally invasive technique.

- The instruments should be uniform, with continuously variable force introduction
- The instruments should have an ergonomic Design.
- The instruments should enable minimally invasive technique for reduction.
- The instruments should be indicated for Comminuted fracture reduction.

- The instrument set should have three arms for Reduction of Pelvic fractures, Condylar fractures, and Percutaneous arm for reducing shaft fractures.
- The instrument should have a Spiked Disk for placement onto the tip of the percutaneous arm permitting use even in osteoporotic bone.
- The instrument should have pointed ends of the arms & feed rod so as to enable a secure & solid reduction.
- The instrument should have a synthetic handle.
- The instrument should have easy mounting of the arms in four different positions.
- The instrument should be cannulated to allow for insertion of K wires for temporary fixation of fragments.
- The instrument should consist of a sliding mechanism & three different arm & other accessory:

Collinear Reduction Clamp Sliding Mechanism	Each
Combination Wrench dia 8	Each
Pelvic Arm f/Collinear Reduction Clamp	Each
Percut-Arm f/Collinear Reduction Clamp	Each
BoneHook-shape Arm f/Collinear Reduction	Each
LCP Reduct-Attachm f/Collinear Reduction	Each
Reduction-Attachm f/Collinear Reduction	Each
Combination Wrench dia 13	Each
K-Wire o2.6 w/spade point tip L500	Each
Disc spiked f/Reduct-Forceps	Each
Sterilization Case	Each

Specification for Broken Screw and Nail Removal

1. Company should be at least in its 5 years of operations at the date of submission of tender
2. Bidder must enclose original literatures & technical data sheet in the support of the technical bid.
3. Physical demo should be arranged at the time of requirement.
4. Instruments quality should meet the international standard.
5. Company should have European CE certificates with Notify Body identification Number & USFDA certificates of international standard.
6. Company should provide material certificates.
7. The Principal company should have registered office in India and approved by Government of India by same name.
8. Warranty for 2 years.

Specification for Broken Screw and Nail Removal-1 Set

	BROKEN SCREW REMOVAL	
1	The set should have screwdrivers & screwdriver shafts, forceps for screw removal, conical extraction screws with T handle, hollow reamers & extraction bolts with T handle.	Each
2	The instrument set should contain a Hollow Reamer for 3.5/4.0 mm Screws	Each
3	The instrument set should contain a Spare Reamer Tube for no. 309.035	Each
4	The instrument set should contain an Extraction Bolt for 3.5/4.Omnm Screws	Each
5	The instrument set should contain an Extraction Screw, conical, for 2.7mm, 3.5mnm and 4.0mm Screws	Each
6	The instrument set should contain a Hollow Reamer for 4.5mm Screws	Each
7	The instrument set should contain a Spare Reamer Tube	Each
8	The instrument set should contain an Extraction Bolt for 4.5mm Screws	Each

9	The instrument set should contain an Extraction Screw, conical, for 4.5/6.5mm Screws0	Each
10	The instrument set should contain a Hollow Reamer for 5.0/6.0/6.5/7.0mm Screws	Each
11	The instrument set should contain a Spare Reamer Tube for no. 309.065	Each
12	The instrument set should contain an Extraction Bolt, for 5.0/6.0/6.5/7.Omm Screws	Each
13	The instrument set should contain an anodized Aluminum Plate	Each
14	The instrument set should contain a Sharp Hook of length 155mm	Each
15	The instrument set should contain a Forceps for Screw Removal, L 205 mm	Each
16	The instrument set should contain a Gouge, 10mm wide and length 205mm	Each
17	The instrument set should contain a T-Handle with quick coupling of length 80mm Aluminum Case	Each
18	Aluminum Case	Each

BROKEN NAIL REMOVAL

1	The instrument set should be used for extraction of nails of diameters from 9-14mm	Each
2	The instrument set should contain a Connector for Extraction hook.	Each
3	The instrument set should contain a Extraction Hook of length 480mm for 9 diameter nails.	Each
4	The instrument set should contain a Long Extraction Hook9-11 diameter nails	Each
5	The instrument set should contain a Long Extraction Hook 11-14 diameter nails.	Each
6	Aluminum Case	Each

Technical Specification of Pelvic Set.

The Instrument should have Schanz Screw dia 6.0 mm length 190/50 mm, Stainless Steel	Each
The Instrument should have Universal Chuck with T-Handie, L 150+20Omm	Each
The Instrument should have Bone Hook, sharp, medium, L 225+20mm	Each
The Instrument should have Bone Hook, sharp, large, L 200+20mm	Each
The Instrument should have Forceps for Screw Removal, L 200±20mm	Each
The Instrument should have Pelvic Reduction Forceps, small, length, 200+20mm, for use with Cortex Screws dia 3.5 and 4.5mm	Each
The Instrument should have Pelvic Reduction Forceps, medium, length, 250+20mm, for use with Cortex Screws dia 3.5 and 4.5mm	Each
The instrument should have Pelvic Reduction Forceps, large, adjustable, speed lock, length 325+2Omm	Each
The Instrument should have Reduction Forceps, large, with points, L200+2Omm	Each
The Instrument should have Ball Spike, straight, with pointed ball tips dia 6.5mm, length	Each

300+2Omm	
The Instrument should have Ball Spike, straight, long, with pointed ball tips dia 6.5mm, length 400+20mm	Each
The Instrument should have Pelvic Reduction Forceps, with pointed ball tips dia 6.5mm, length 250+20mm	Each
The instrument should have Pelvic Reduction Forceps, oblique, with pointed ball tips dia 6.5mm, length 200+2Omm	Each
The instrument should have Pelvic Reduction Forceps, oblique, with p0inted ball tips dia 6.5mm, length 250+20mm	Each
The instrument should have Pelvic Reduction Forceps, with pointed ball tips dia 6.5mm, length 400+2Omm	Each
The Instrument should have Pelvic Reduction Forceps, with pointed ball tips dia 6.5mm, length 250+20mm	Each
The Instrument should have Pelvic Reduction Forceps, Small, for Screws dia 3.5mm, length 250+20mm	Each
The Instrument should have Disc, hole dia 6.5mm	Each
The Instrument should have Disc, rectangular, hole dia 6.5mm	Each
The Instrument should have Bone Hook, medium, long, length 325+20mm	Each
The Instrument should have Bone Hook, large, long, length 325±20mm	Each
The Instrument should have Pelvic Retractor, blunt, L 275+20mm	Each
The Instrument should have Radiolucent Pelvic Retractor, blunt, length 275+20mm	Each
The Instrument should have retractor, 18mm wide, Iong narrow tip, L 225+20mm	Each
The Instrument should have Radiolucent Hohmann Retractor, width 18mm. length 250+2Omm	Each
The Instrument should have Pelvic Retractor, medium, length 275+20mm	Each
The Instrument should have Radiolucent Pelvic Retractor, medium length 275+20mm	Each
The Instrument should have Pelvic Retractor, large, length 325+20mm	Each
The Instrument should have Radiolucent Pelvic Retractor, large, length 325+20mm	Each
The Instrument should have Retractor, can be contoured, width 20mm	Each
The Instrument should have Retractor, can be contoured, width 30mm	Each
The instrument should have Retractor, can be contoured, width 40mm	Each
The instrument should have Radiolucent Hohmann Retractor, width 24 mm lengths 275±20mm	Each
The Instrument should have ln-situ Bending and Twisting Handle, straight	Each
The Instrument should have In-situ Bending and Twisting Handle, 90	Each
The Instrument should have In-situ Bending and Twisting Handle, 120°	Each
The Instrument should have In-situ Bender	Each
The Instrument should have Drill Bit, 3.5mm dia., L 195/170mm, for quick coupling	Each
The Instrument should have Tap for Cortex Screws dia 3.5 mm, calibrated, length 175 ±10mm	Each
The Instrument should have Holding Sleeve.	Each
The Instrument should have Screwdriver, hexagonal, small, dia 2.5 mm. length 270 +10 mm	Each
The Instrument should have Drill Bit, 2.5mm dia., L 230/205. +10 mm, 3-flute, with depth marking	Each
The Instrument should have Drill Bit dia 2.5 mm, calibrated, length 300 mm ±20mm, with Quick Coupling. for Percutaneous Insertion	Each
	Each

The Instrument should have Depth Gauge for Cortex Screws dia 3.5 mm, measuring range up to 150 mm +2Omm	Each
The Instrument should have Bending Iron for Reconstruction Plates 35 and 4.5, length 190 mm, ±10mm	Each
The Instrument should have Bending Pliers for Reconstruction Plates 3.5	Each
The Instrument should have Handle with Quick Coupling	Each
The Instrument should have Screwdriver Shaft, hexagonal for Screws dia 3.5 mm, length 250 mm, +10mm	Each
The Instrument should have Screwdriver Shaft Star drive, length 250mm, t 10mm	Each
The instrument set should contain blunt aluminium Radiolucent Pelvic Retractor with length 2 74 mm+10mm	Each
The instrument set should contain the Radiolucent hohmann retractors with the following Sizes.	
Width 3S mm, Length 275 mm	Each
Width 18 mm, Length 240mm	Each
Width 24 mm, Length 267 mm	Each
The set should contain 3.5mm Polyaxial angle Drill Guide Its grips should be made of vulcanized ethylene propylene diene monomer	
Instrument should Have Grafic cases and lids As per instruments	
T&C- The company should be able to provide complete set as per given item list	
The above said Instrument should be USFDA certified Warranty 2 years	
For instruments, steel grade used should be AISI 316 & 410	
Instrument should be satin finished for glare free under OT Light Company should be able to do demo if required.	

Power Flexible Reaming Set

Reamer set of following-	Qty.
T-Handle with quick coupling. L 85mm	Each
Holding Forceps for Reaming Rod 2.5mm	Each
Removing Tool for Reaming set	Each
Hand Reamer, 8.0mm dia., for predrilling in pseudarthroses	Each
Reaming Rod, 2.5mm dia, L.950mm oliva	Each
Flexible Shaft, 7.0mm dia., reaming depth to 470mm	Each
Cleaning Brush for 3.6mm flexible Shaft . L. 600mm	Each
Reduction Head straight	Each
Reduction dia, Displacement 2.5mm	Each
Reamer Head , 8.5mm dia	Each
Reamer Head. 9.0mm dia	Each
Reamer Head. 9.5mm dia	Each
Reamer Head.10.0mm dia	Each
Reamer Head.10.5mm dia	Each
Reamer Head.11.0mm dia	Each
Reamer Head. 11.5mm dia.	Each
Reamer Head.12.0m	Each
Reamer Head.12.5mm dia	Each
Reamer Head...13.0mm dia	Each
Box for above items	Each

The above said items should be USFDA/CE certified company should be able to demo the items if asked.

SPECIFICATION FOR UNIVERSAL SMALL FRAGMENT	
1. Company should be at least in its 5 years of operations at the date of submission of tender.	
2. Bidder must enclose original literatures & technical date sheet in the support ofd the technical	
3. Physical demo should be arranged at the time of requirement.	
4. Instuments quality should meet the international standard.	
5. Company should have European Ce certificates with Notify Body indenfication Number & USFDA certificates of international standard.	
6. Company should provide material certificates.	
7. The principal company should have registered office in india and approved by Government of India by same name.	
8. Warranty for 02 years.	
Description	Qty
• The instrumetns should be made of stainless steel and medical grade polymers – ploryaryletherketone, vulcanized ethylene propylene diene monomer and polypropylene.	
• All instrument grips should be made of vulcanized ethylene propylene diene monomer	
• The instruments should be able to maintain stiffness while withstanding high temperatures during sterilization	
• The set should contain 3.5 mm Nautral Sleeve Adapter for 3.5 Non-Locking Drill Guide	Each
• The set should contain 3.5mm Non-Locking Drill Guide	Each
• The set should contain 3.5 mm Polyaxial angle Drill Guide	Each
• The set should contain 2.8mm Threaded Guide for 3.5mm Screw for both Polyaxial angle locking and standard locking	Each
• The set should 2.7mm Neutral Sleeve Adapter for 2.7 Non-locking Drill Guide	Each
• The set should contain 2.7mm Polyaxialangle Drill Guide	Each
• The set should contain 2.0mm Threaded guide for 2.7mm screw for polyaxial angle and standard locking	Each
• The set should contain centering sleeve for k-wire with diameter 1.6mm with length 70mm	Each
• The set should contain2.7/3.5mm Depth Guage 0-60mm	Each
• The set should contain quick coupling 2.0mm Drill Bit with length 30mm	Each
• The set should contain quick coupling 2.0mm Drill Bit with length 60mm	Each
• The set should contain quick coupling 2.5mm Drill Bit with length 45mm	Each
• The set should contain quick coupling 2.5mm Drill Bit with length 80mm	Each
• The set should contain quick coupling 2.7mm Drill Bit with length 45mm	Each
• The set should contain quick coupling 2.8mm Drill Bit with length 45mm	Each
• The set should contain quick coupling 2.8mm Drill Bit with length 80mm	Each
• The set should contain quick coupling 3.5mm Drill Bit with length 60mm	Each
• The set should contain counter sink for 3.5mm cortex and 4.0mm cancellous bone crews	Each
• The set should contain Universal Screwdriver Handle	Each
• The set should contain 2.5mm Hexagonal Driver shaft	Each
• The set should contain stardrive screwdriver shaft with coupling	Each

• The set should contain stardrive screwdriver shaft length 105mm	Each
• The set should contain holding sleeve	Each
• The set should contain 2.5mm torque limiting handle with quick coupling	Each
• The set should contain torque limiting attachment 1.5mm with quick coupling	Each
• The set should contain torque limiting attachment 1.2mm	Each
• The set should contain torque limiting attachment 0.8mmwithquick coupling	Each
• The set should contain plate Bender Irons closed for 2.7/3.5mm plates	Each
• The set should contain 1.25mm kirschner wire with trocar point 150mm-Pack of 10's	Each
• The set should contain 2.0mm kirschner wire with trocar point 150mm Pack of 10's	Each
• The set should contain 1.6mm kirschner wire with trocar point 150mm – Pack of 10's	Each
• The set shold contain Periosteal Elevator 6mm Curved	Each
• The set should contain sharp hook-small taper	Each
• The set should contain small hohmann retractor 8mm short narrow tip 160mm	Each
• The set should contain hohmann retractor 15mm 160mm	Each
• The set should contain 2.7/3.5mm Depth Guage length 40-100	Each
• The set should contain 2.5mm Drill Bit with quick coupling and length 150mm	Each
• The set should contain 2.8mm Drill Bit with quick coupling and length 110mm	Each
• The set should contain 3.5mm Drill Bit with quick coupling and length 105mm	Each
• The set should contain 2.7/3.5mm Depth Gauge with length 40-100mm	Each
• The set should contain 2.5mm Drill Bit with quick coupling and length 150mm	Each
• The set should contain 2.8mm Drill Bit with quick coupling and length 110mm	Each
• The set should contain 3.5mm Drill Bit with quick coupling and length 1.5mm	Each
• Aluminium case	Each

Percutaneous Cerclage **wire passer**

1. Company should be at least in its 5 years of operations at the date of submission of tender.
2. Bidder must enclose original literature & technical data sheet in the support of the technical bid.
3. Physical demo of all the asked equipment should be arranged at the time of requirement.
4. Instruments quality should meet the international standard.
5. Company should have European CE certificates with Notify Body Identification Number & USFDA certificates of international standard.
6. Company should provide material certificates.
7. The principal company should have registered office in India and approved by Government of India by same name.
8. Warranty for 02 year
9. Only company quoting for all the required products will be considered.

The Instruments should be able to be used in Periprosthetic features of the femur, Subtrochanteric fractures, Hip and knee prostheses.	
The instruments should be able to be used in temporary reduction of fractures	
The instruments should enable Minimally invasive surgery	
The Cerclage wire passer should be available in size of 45mm & 60mm (5% deviation)	Each

The Cerclage passer should be designed as two separate halves to facilitates equential insertion through on small incision	Each
The instruments should have a cerclage twister which should be compatible to be used with wirers with diameter ranging from 0.8 to 1.5mm	Each
The cerclage twister should adapt force by scrolling the adjusting sleeve toprevent wire breakage	Each
The instrument set should contain tunnelling deives as per the size of the wire passer for 46mm & 60mm	Each
The instrument set contain bending pliers for bending the wires	Each
The set should incorporate two beaded trocars for Cerclage Passer	Each
The set should have a front cutter for cutting wires	Each

Large Fragment

The instrument set should contain Drill Bit with diameter 3.2mm, Length 145/120mm for quick coupling	Each
The instrument set should contain Drill Bit with diameter 4.5mm, length 147/120mmfor quick coupling	Each
The instrument set should contain large countersink with length 180mm	Each
The instrument set should contain T- Handle with quick coupling of length 80mm	Each
The instrument set should containTap for 4.5mm Cortex Screws with length70/125mm	Each
The instrument set should contain Tap for 6.5mm Cancellous Bone Screws Length 195mm	Each
The instrument set should contain Double Drill sleeve 4.5/3.2	Each
The instrument set should contain Double Drill sleeve 4.5/3.2 length 80mm	Each
The instrument set should contain Double Drill sleeve 6.5/3.2	Each
The instrument set should contain large Screwdriver Shaft with hexagonal recess & length 100mm	Each
The instrument set should contain large screwdriver with hexagonal recess & recess & groove with length 240mm	Each
The instrument set should contain large Holding sleeve of length 120mm	Each
The instrument set should contain Depth Guage for 4.5 to 6.5mm screws	Each
The instrument set should contain sharp Hook, length155mm	Each
The instrument set should contain Articulated Tension Device	Each
The instrument set should contain combination wrench, 11mm, length 140mm	Each
The instrument set should contain DPC Drill Sleeve 4.5	Each
The instrument set should contain LC-DCP Drill Sleeve 4.5	Each
The instrument set should contain Universal Drill Sleeve 4.5	Each
The instrument set should contain Bending Template for DCP 4.5 and LC-DCP 4.5. Length 210mm	Each
The instrument set should contain Bending Template for DCP 4.5 and LC-DCP 4.5, Length 155mm	Each
The instrument set should contain Ratchet Wrench, 11mm, Length 140mm	Each
The instrument set should contain Torque-Limiting Screwdriver, Length 25.5mm for 3.5mm hexagon	Each
The instrument set should contain Drill bit with diameter 3.5mm for metal	Each
The instrument set should contain Conical extraction screw for 4.5/6.5mm screws	Each
The instrument set should contain Drill Bit with diameter 4.3mm, Length 221mm	Each
Screwdriver Shaft 3.5, self-retaining, L 110mm	Each

The instrument set should containThreaded LCP Drill Guide for 4.3mm Drill Bit	Each
The instrument set should contain screw Holding sleeve for LCP 4.5/5.0	Each
The instrument set should contain Handle with Quick coupling	Each
Radiolucent Pelvic Retractor, blunt, length 274 mm, Aluminium	Each
Radiolucent Hohmann Retractor, width 18 mm, length 240 mm Aluminium	Each
Radiolucent Pelvic Retractor, medium, length 268 mm, Aluminium	Each
Radiolucent Pelvic Retractor, large, length 323 mm, Aluminium	Each
Radiolucent Hohmann Retractor, width 35 mm, length 275 mm, Aluminium	Each
Radiolucent Hohmann Retractor, width 267 mm, Aluminium	Each
Reduction Forceps with points Narrow Soft Lock, length 146 mm	Each
Bone Holding Forcep , Self Centering , Soft Lock 191 mm	Each
Reduction Forceps with Narrow Soft Lock Length 127 mm	Each
Reduction Forceps with Point Soft Lock Length 222 mm	Each
Reduction Forceps Toothed, Soft Lock, Length 250mm	Each
Bone Holding Forceps, Self Centering , Soft Lock 239mm	Each
Aluminium Case	Each

Specification for Hand Surgery System

The system should have provision for five dimensions for the wide range of indications. Eg. 1,0,1.3,1.5,2.0 &2.4 mm.	
The system should have wide range of anatomica & adaptation plastes for different indications.	
The system should have angular stable implants in the dimension of 2.0mm & 2.4mm.	
The system should be low profile and completely buried screw head to make system tissue friendly.	
The instrumens should be colour-coded for easy recognition.	
The instrument tray should supports all modules in the Modular Hand System.	
The instrument should be made of pure titanium for bio compartibility.	
The instrument should have depth gauge for 1.0mm, 1.3mm, 2.0mm & 2.4mm crews	Each
The instrument should have handle , medium with mini quick coupling	Each
The instrument should have Universal pliers for plates 1.0-2.4	Each
The instrument should have Reduction forceps with point, plate holding forceps, termite forceps, stag beetle forceps, retractors, sharp hook, periosteal elevators, Bone Levers 6.0mm & 8.0mm, &Torque Limiter of 0.4 Nm & 0.8 Nm	Each
The instrument should have drill bits dia 0.8mm 1mm , 1.1mm, 1.3mm & 1.5mm, 1.8mm, 2mm, 2.4mm	Each
The instrument should have double drill guide dia 1.3/1mm, 1.5/1.1	Each
The instrument should have countersink dia 1.3-2mm, 1.5/2.4mm	Each
The instrument should have a screwdriver shaft dia 1mm, 1.3mm, 1.5mm, and 2mm with holding sleeve	Each
The instrument should have LCP Drill sleeve 2mm with scale, universal drill guide 2mm, 2.4mm	Each
The instrument should have bendinh pin for LCP plate 2.0mm, 2.4mm & 2.7mm w.thread	Each
The instrument should have threated LCP drill guide for drill bits of 2.0mm &2.4mm system	Each
The instrument should have screwdriver shaft stardrive T8 self holding.	Each

Wire instruments Set	
Drill Bit, 2.0 mm dia, L 120/75mm for quick coupling	Each

Triple Drill Guide 2.0 with 3 holes, opposite side 1 hole	Each
Wire passer, 45mm bending diameter	Each
Wire passer, 70mm bending diameter	Each
Wire tightener with handle and two pegs, L 240mm	Each
Holding Forceps for Cerclage Wires, L 170mm	Each
Wire Bending Pliers, L 155mm	Each
Parallel Pliers, flat nosed , L 160mm	Each
Wire Cutter, large, L 220mm	Each
Wire Cutter, short , L 175mm	Each
Bending iron, for kirschner Wires 1.25 to 2.5mm dia, L 120mm	Each
Wire mount	Each
Cerclage wire , 1.0mm dia , with eye L 280mm	Each
Cerclage wire , 1.25mm dia , with eye L 280mm	Each
Wire Coil, 1.0mm dia, L 10m	Each
Wire Coil, 1.25mm dai L 10m	Each
Kirschner Wire, 1.0m dia with trocar tip, L 150mm(packet of 10)	Each
Kirschner Wire, 1.25m dia with trocar tip, L 150mm (packet of 10)	Each
Kirschner Wire, 1.6m dia with trocar tip, L 150mm (packet of 10)	Each
Kirschner Wire, 2.0m dia with trocar tip, L 150mm (packet of 10)	Each
Kirschner Wire, 2.5m dia with trocar tip, L 150mm (packet of 10)	Each
Sterilization Case	Each

HIP PRESERVATION INSTRUMENTS SET

1. Company should be at least in its 5 years of operations at the date of submission of tender.	
2. Bidder must enclose original literaturers & technical data sheet in the support of the technical bid.	
3. Physical demo should be arranged at the time of requirement.	
4. Instruments quality should meet the international standard.	
5. Company should have European CE certificates with Notify Body indentification Number & USFDA Certificates of international standard.	
6. Company should provide material certificates.	
7. The principal company should have registered office in India and approved by Government of India by same name.	
8. Warranty for 1 year	
The Hip preservation surgery Set contain semi-radiolucent retractor, osterostomes, chisels and femoral head templates to assits the surgeon with periacetabular osteotomy and hip impingement procedures.	
The instrument set should contains a blunt pelvic Retractor	Each
The instrument set should contain Bone Lever with wide tip and width 22 mm with length 250mm	Each
The Instrument set should contain long narrow tip Bone lever with 18mm and length 235mm	Each
Long narrow tip wide tip Bone lever with width 24 mm and length 270mm	Each
The instruments set should contains a chisel Handle with the following chisel blades	Each
Chisel Blade , width 10mm	Each
Chisel Blade, width 16mm	Each
Chisel Blade, width 5mm	Each
Long Chisel Blade, width 10mm	Each
Long chisel Blade, width 16mm	Each

Long chisel Blade, width 25 mm	Each
Long chisel Blade, width 5.0mm	Each
The instrument set should contain Pelvic Osteotomy chisel with width 15 mm and length 304/134mm	Each
The instrument set should contain Pelvic Osteotomy Chisel with width 20 mm and length 304/134 mm	Each
The instrument set should contain wide tip Bone lever with width 35 mm and length 284mm	Each
The instrument set should contain curved Pelvic Osteotomy chisel with widths 15 mm and 20mm and length 309 mm	Each
The instrument set should contain blunt aluminium Radiolucent Pelvic Retractor with length 274mm	Each
The instrument set should contain the Radiolucent hohmann retractors with the following Sizes:	Each
Width 35 mm, length 275 mm	Each
Width 18 mm, length 240 mm	Each
Width 24 mm, Length 267 mm	Each
The instrument set should contains aluminium Radiolucent Pelvic Retractor in medium and large size wit lengths 268 mm and 323mm	Each
The instrument set should contain aluminium Radiolucent Hohann Retractor with width 22 mm and length 250mm	Each
Pelvic Osteotome, straight 15 mm	Each
Pelvic Osteotome, straight 20 mm	Each
Pelvic Osteotome, angled 15 mm	Each
Pelvic Osteotome, angledt 20 mm	Each
Pelvic Osteotome, short angled 15 mm	Each
Pelvic Osteotome, bayonet - shaped , 15 mm	Each
Pelvic Osteotome, bayonet - shaped , 20 mm	Each
The instrument set should contain the following templates:	Each
Template for femoral Head dia 42 mm	Each
Template for femoral Head dia 44 mm	Each
Template for femoral Head dia 46 mm	Each
Template for femoral Head dia 48 mm	Each
Template for femoral Head dia 50 mm	Each
Template for femoral Head dia 52 mm	Each
Template for femoral Head dia 54 mm	Each
Template for femoral Head dia 56 mm	Each
Template for femoral Head dia 58 mm	Each
Graphic Case for Hip Preservation set	Each

DHS/DCS Instrument Set

- Material –Stainless Steel (instrument)
- Grade-ISO 5832-1
- The instrument should have DHS/DCS Threaded Guide Wire , 2.5mm dia.. L 230/5mm
- The instrument should have Angled Guide 135 150°
- The instrument should have DHS/DCS Direct Measuring Device
- The instrument should Wrench for one step insertion Length 230mm
- The instrument should have T- Handle with quick coupling, Length 80mm
- The instrument should have DHS Triple Reamer
- The instrument should have Impactor for one-step insertion, L 260mm

- The instrument should have DHS/ DCS Tap Length 220Mm
- The instrument should have Locking Centering Sleeve
- The instrument should have coupling Screw, cannulated
- The instrument should have Triple Reamer
- The instrument should have tapered ends to allow for submuscular insertion of the plate
- The instrument should be compatible with Trochanter Stabilizing plates
- The triple reamer should be detachable in 3 parts – Reamer for screw. Reamer for DHS.DCS plate barrel and Nut
- The should use one step surgical technique for the insertion of lag screw coupling for DHS/DCS
- Aluminium Case.

General Instrument and Chisel , Impactor Set	
Bone Hook sharp, small , L 230mm	Each
Bone Hook, sharp, medium,L 230mm	Each
Retractor, 8mm wide, short narrow tip, L 220m	Each
Retractor, 18mm wide, short narrow tip, L 235	Each
Retractor, 24mm wide, long and wide tip, L 270mm	Each
Periosteal Elevator, curved shaft, 14mm wide, L 200mm	Each
Periosteal Elevator, round edge, 6mm wide, L 200mm	Each
Periosteal Elevator straight shaft, 14mm wide, L 200mm	Each
Hammer 500g, L.185mm	Each
Chisel Handle , L 185mm	Each
Chisel Blade, 10mm wide thickness 0.9mm, L 81 mm	Each
Chisel Blade 16mm wide, thickness 0.9mm, L 81mm	Each
Chisel Blade 25mm wide, thickness 0.9mm, L 81mm	Each
Gouge, curved, for cancellous bone graft harvest, 10mm wide, L 250mm	Each
Handle with quick coupling , L 150mm	Each
Cancellous Bone impactor, 6.0mm dia, round L 140mm	Each
Cancellous Bone impactor, 6.0mm dia, flattened , L 140mm	Each
Cancellous Bone impactor, 8.0mm dia, round L 140mm	Each
Cancellous Bone impactor, rectangular 6x16mm, L 140mm	Each
Cancellous Bone impactor, rectangular 10x20mm, L 140mm	Each
Cancellous Bone impactor, rectangular 10x30mm, L 140mm	Each
Gouge, curved, 10mm wide, L 140mm	Each
Gouge, curved, 15mm wide, L 140mm	Each
Chisel, flat, straight, 16mm wide, L 140mm	Each
	Each
	Each
	Each
CSS 4.5mm instrument Set	Each
Drill Bit Dia 1.5L110/85 2flute	Each
Drill Bit Dia 3.2/1.75 cann L170/140 4flute	Each
Countersink –cann Dia 4.5	Each
T-Handle w/Quick-Coupl	Each
Double Drill Guide-Coupl	Each
Parallel- Guide f/Guide-Wires Dia 1.6 adjust	Each
Trocar Dia 1.6 Dia 4.5	Each

Drill Sleeve 3.2/1.6 Dia 4.5	Each
Protect – sleeve 9.5/7 Dia 4.5	Each
Scr Driver – hex-cann Dia 4.5	Each
Hold-Sleeve f/314.200	Each
Direct Measur-Device Dia 4.5	Each
Clean- style Dia1.6	Each
Hold Clip f/Washers	Each
Scr Forceps self hold L 85	Each
Guide wire Dia 1.6w/Thread-tip w/trocar L15	Each

Css 6.5mm Instrument Set	
Drill Bit Dia 5 cann L 300/250 3flute	Each
Parallel Guide f/Guide –wires Dia 2.8 adjust	Each
Trocar Dia 2.8	Each
Protect- Sleeve 12/8.5	Each
Drill Sleeve 8.5/2.8	Each
Protect- Sleeve 15.5/13	Each
Scr Driver- hex-cann Dia 6.5+7.3	Each
Hold- Sleeve large	Each
Clean –Brush Dia2.9	Each
Hold- Clip f/Washers	Each
Clean-Style Dia 2.8	Each
Direct Measure- Device f/ Guide Wires Dia 2+2.8	Each
Scr Forceps self-hold L85	Each
Guide Wire Dia 2.8w/thread-tip w/trocar L 3	Each

Bone Forcep's Range	
Reduc-Forceps w/Points narrow ratchet-lock	Each
Reduc-Forceps w/Points wide ratchet-lock	Each
Reduc-Forceps w/Points ratchet-lock L180	Each
Reduc-Forceps toothed speed-lock L170	Each
Reduc-Forceps w/Points speed-lockL130	Each
Reduc-Forceps large w/Points speed-lock	Each
Reduc-Forceps toothed speed lock L140	Each
Reduc-Forceps w/Points ratchet-lock L160	Each
Reduc-Forceps w/Points ratchet-lock L130	Each
Reduc Froceps toothed retchet-lock L140	Each
Bone Holding Forceps self –center speed -1	Each
Bone Holding-Forceps self –center speed -1	Each
Bone Holding –Forceps self-center speed-1	Each
Hold-Forceps f/Tib-Edge Fragm L210	Each
Hold-Forcepsw/Ball ratchet-lock L180	Each
Bone-spreader Speed-lock L140	Each
Stagbeetle-Forceps ratchet-Lock L120	Each
Patella Forceps speed Lock L175	Each
Malleolar Forceps-lock L210	Each
Reduc-Forceps toothed speed-lockL170	Each
Plate Holding Forceps, size 2	Each
Plate Holding Forceps, size 0	Each
Reduction Forceps with Points Narrow Soft Lock, Length 146 MM	Each

Reduction Forceps with Points Narrow Soft Lock Length 127MM	Each

Specification- Foot Distractor	
Tray for compressiomn/Distraction Device, for Orthopaedic Foot Instruments, without Lid, without contents	Each
LID F/Modular Insert Size 1/4	Each
Compression/Distraction Device for Foot and Ankel	Each
Holding Sleeve Ø2.5 mm for Compression/Distraction Device for Foot and Ankle	Each
Holding Sleeve Ø 2.5 mm for Compression/Distraction Device for Foot and Ankle	Each
Holding Sleeve Ø 3.0 mm for compression/Distraction Device for Foot and Ankle	Each
Holding Sleeve Tightening Device for Compression/Distraction Device	Each
K-Wire Ø2.5 L150 SST 10U	Each
K-Wire Ø2.5 Thread- Tip L 150/15 SST10U	Each
K-Wire Ø2 Thread-Tip L 150/15 SST 10U	Each

Specification for Moreland type cement Revision System-

1. **Moreland Type Cemented Hip Revision Instrumentation**
   a) The set components should be made of hardened steel alloy and should pass global ASTM standards
   b) The set should have "V" osteotomers and "X" osteotomes of minimum size 15"
   c) The set should have spoon acetabular chisel
   d) The set should have a slotted mallet
   e) The set should have Tap extractors of minimum thickness 8mm
   f) The set should have 15 degree head & straight head curved osteotomes of 7mm, 9mm thickness
   g) The set should have femoral bowed curved osteotomes, curved osteotomes 15 degree of 7 mm thickness.
   h) The set should have long, short and 15 degree head T osteotomes
   i) The set should hve long narrow, extra long narrow, extra long narrow with femoral bow, long wide, short wide cement rongeurs
   j) The set should have long & reverse type curettes
   k) The set should have long & delicate ceent grasping forceps
   l) The set should have a carbide punch and acetabular punch
   m) The set should have hip extraction adaptor,, femoral trail extractor & poly implant extractor
   n) The set should have X splitters
   o) The set should sterilization case and sterilization trays upper, lower second, bottom
   p) The set should have a 6mm, 8mm drill guide shaft
   q) The set should come with its complete instruments trays, lids, inserts and tray base

2. **Moreland Type Knee Revision Instrument—**
   a) The set should have a poly implant Extractor.
   b) The set should have a cement rongeur with a minimum size of 8"
   c) The Set should have Intercondylar Femoral Chisel with a minimum size of 8mm x 10mm x 7 ¾"
   d) The set should have Femoral/Tibial Extractor with a minimum size of 11mm x 7 ¾"
   e) The set should have a curette a minimum of 8mmx13".

f) The set should have a Tamp.
g) The set should have a light slotted Mallet
h) The set should have Thin, Flat, pointed and Short "V" osteotomes with different sizes.
i) The set should have femoral/tibial reamer with size of 10,11,12,12,14,15,16,19x18"
j) The set should come with its complete instrument trays, lids and tray base.

Specification of MIS Joint Replacement Instrument System:

a) The set components should be made of hardened steel alloy and should pass global ASTAM standards
b) The set should have MIXL Femoral Neck Elevator
c) The set should have an inferior Posterior Capsular Retractor Right and left option.
d) The set should have a Right-Angled Posterior Capsular Retractor.
e) The set should have a Blunt Right Angle Posterior Capsular Retractor.
f) The set should have MI Gluteus Medius Retractor
g) The st should have superior Capsular Retractor.
h) The set should have Anterior Hohmann.
i) The set should have MI Cobra Retractor with Armrest.
j) The set should have Mi Narrow Cobra.
k) The set should come with its complete instruments trays, lids, inserts and tray and tray base.

Specification for MIS Acetabular Reamer System

The Minimally invasive Acetabular Set intended to be used to enable access to the acetabulum through a variety of less invasive surgical exposures, including the mini-aterolateral, mini-posterolateral and anterior approaches. The instrument angulation and slim profile allows passage through a small incision directly into the joint space without disrupting the surrounding tissue, using with Quickset Graters.

a) Greater reamer head should be Hemispherical design
b) Grater reamer head should be made up Stainless steel construction.
c) Grater reamer head should have sizes from 36-66 mm with 1 mm increments.
d) The set should come with its complete instruments trays, lids, inserts and tray base.
e) The should have an Angled Drive Shaft Dual Coupling.
f) The set should an Angled Reamer Driver Housing Assembly.
g) The set should have an Angled Acetabular Inserter.
h) The set should have impactor tip with different sizes(28,32,36mm).
i) The set should have a bantam adaptor.

Specification fore Control cable instruments:

a) The instruments intended to be used in reattachment of extended proximal femoral osteotomy fragment, prophylactic cabling of proximal femur in total hip arthoplasty. Trauma fracture fixation and reattachment of trochanter after trochanteric osteotomy
b) The set components should be made of strengthended stainless stell alloy and should pass the global ASTM standards
c) The set should have cable tensioner with needle weight tensioner
d) The set should have wire tensioner with needle nose.
e) The set should passer handle with passer inserts, angled passer with options for passer handles.
f) The set should also have a crimper, crimper jaws & cutter, cable cutter

g) The set shold come with its complete instruments trays lids, insets and trays base.
h) The set should be compatible with cobalt chromium & stainless –steel cables of 7x7 strand configuration.
i) The set should also be computable with 25 in stainless Steel wire with strand increments
j) The set should have one set of cobalt chrome cable & sleeve wire, stainless steel cable & sleeve.

Design Specifications for Cable tensioner

a) It should enable to provide optimum tension for cable
b) It should be a lightweight tensioner knob enables quick adjustment to the loaded cable while the tension gauge should provide an easy- to-read scale for predictable tension.
c) It should have a quick trigger cam locking action

The Crimper should offer a crimp "stop

Design Specification for Crimper

" mechanism to allow consistent crimping.

Desing Specification of Cable Cutter

The Cable Cutter should move the cutter blades in closer contract with cable and wire.

Technical Specification of HP Moreland

S. No	Name of the instrument	Description	Size	Alloy Used
1.	CHARNLEY WEIGHT & CHAIN	Used with Charnley retractor for initial incision retraction purpose	Standard with 24" chain	Stainless Steel alloy
2	CHARNLEY HORIZONTAL RETRACTOR	To retract, expose or hold back tissue, muscle, organs or bone for surgical exposure.	Standard	Stainless Steel alloy
3	CHARNLEY Pin Retract & HANDLE	Used to facilitate the insertion and extraction of two pins into and out of bone in the incision area, thereby holding the incision soft tissue open during the surgical procedure.	Standard	Stainless Steel Alloy
4	CHARNLEY SOCKET SZ GAUGE SML	To estimate the anteroposterior size of the socket	Small	Stainless Steel Alloy
5	MORRIS RETRACTOR	To spread out as well as separate portions of the skin and tissue. It helps in holding back any organs which may be coming in the way of a surgical site and it also helps in spreading the edges of incisions apart.	3.25x1.25"8CM	Stainless Steel Alloy
6	MORRIS GIGLI SAW FLEXIBLE	A Gigli saw is a flexible wire saw used by surgeons for bone cutting. A Gigli saw is used mainly for amputation, where the bones have to be smoothly cut at the level of	30CM, 50CM	Stainless Steel Alloy

		amputation.		
7	CHARNLEY GIGLI SAW HANDLE	Handle to hold gigli saw wire	Standard	Stainless Steel Alloy
8	CHARNLEY HOHMANN Bone elevator	To elevate bone during orthopaedic procedures	24.5CM	Stainless Steel Alloy
9	TRIMMING SCISSORS	For trimming purpose during orthopaedic surgeries	Standard	Stainless Steel Alloy
10	CHARNLEY CEMENT RESTRICTOR INSERTER	For restricting the inflow of cement during cemented Hip replacement	Standard	Stainless Steel alloy
11	CHARNLEY FEMORAL LEVER	To elevate femur for exposure in femoral preparation in hip replacement	Standard	Stainless Steel alloy
12	CHARNLEY ACETABULAR SCRAPER	To Scrap out the unwanted tissues from actabulum before reaming in THR	Standard	Stainless Steel alloy
13	CHARNLEY PUNCH	Used for impaction during hip replacement	Standard	Stainless Steel alloy
14	OLLIER RETRACTOR	Ollier Retractor has four curved and blunt prongs on one end used to retract primarily heavier tissue	6CM x3.75 CM	Stainless Steel alloy
15	CHARNLEY HOHMANN initial incision retractor	Most commonly used in rectracting initial incision in hip replacement surgeries.	Standard	Stainless Steel Alloy
16	CHARNLEY HOHMANN elevator 45 DEG angulated	To retract, expose or hold back tissue, muscle organs or bone for surgical exposure.	Standard	Stainless Steel Alloy
17	CHARNELY RING CURETTE	Used for scraping or debriding biological tissue or debris	Standard	Stainless Steel alloy
18	CHARNELY Initial incision retractor ARM	Part to use with initial incision retractor	Standard	Stainless Steel alloy
19	CHARNLEY Acetabular preparation drill 0.25”	To prepare acetabulum for comenting	6.5mm,13mm	Stainless Steel alloy
20	CHARNLEY GOUGE	To prepare bone making surface point before reamer insertion	Standard	Stainless Steel alloy
21	CONTROL CABLE PASSER HANDLE	Important instrument used during trauma and replacement surgeries to hold cable insertion	Standard	Stainless Steel alloy
22	CONTROL CABLE PASSER INSERT	Important instrument used during trauma and replacement surgeries to enable insertion of cable	Large & Small	Stainless Steel alloy
23	CONTROL CABLE TENSIONER	Important instrument used during trauma and replacement surgeries to tension the cable	Standard	Stainless Steel alloy
24	CONTROL CABLE CRIMPER	Important instrument used during tauma and replacement surgeries To crimp the cable	Standard	Stainless Steel alloy
25	CONTROL CABLE CUTTER	Important instrument used during trauma and replacement surgeries	Standard	Stainless Steel alloy

		to cut the cable		
26	Blunt Point Gelpis	Used to control soft tissue throughout during the shoulder procedure	Standard and Hinged	Stainless Steel alloy
27	Modified Fukuda Retractor	To retract the humeral shaft posteriorly, helping to expose the glenoid surface	Small and large	Stainless steel alloy
28	Pectoral Retractor	To rectact and protect pectoral muscle	Small and Large	Stainless Steel alloy
29	Retractor Frame	'Self-retaining retractor for shoulder surgery	8 Inches	Stainless Steel alloy
30	Adjustable Pectoralis Retractor	Retracts Pectoralis muscle during shoulder surgery	Small , Medium	Stainless Steel alloy
31	Adjustable Deltoid Retractor	Retracts deltoid muscle during shoulder surgery	Small Medium	Stainless Steel alloy
32	Curved Awl	Awl is used to create and enlarge holes during orthopaedic procedures. Used on curved surfaces	9.5mm,7mm	Stainless Steel alloy
33	Richardson Retractor	Used for holding back multiple layers of deep tissue.	Standard	Stainless Steel alloy
34	Straight Awl	Awl used to create and enlarge holes during othropedic procedures. Used on straight surfaces	Standard	Stainless Steel alloy
35	Straight Needle Holder	To hold straight needle	Standard	Stainless Steel alloy
36	Ferris Smith Forceps	Used to hold fibrous tissues	8 Inches	Stainless Steel alloy
37	Freer/Elevator	Primarily used for blunt debulking and lifting periosteum from bones in confined areas	Standard	Stainless Steel alloy
38	Hand-Held Deltoid Retractor	Used to retract glenoid muscle	Standard	Stainless Steel alloy
39	Hoke Chisel	Orthopedic instrument with a shaped edge for cutting bone	Standard	Stainless Steel alloy
40	Anterior Glenoid Neck Retractor (Eight-Prong)	To retract glenoid neck	Standard	Stainless Steel alloy
41	Leksell Rongeur	Used for debulking bone in orthopaedic procedures	Standard	Stainless Steel alloy
42	Curved Needle Holder	To hold curved needle	Standard	Stainless Steel alloy
43	SCoffield Retractor	It is a metal bent retractor that is used to protect the axillary nerve and separate the subscapularis muscle when exposing the humeral head.	Standard	Stainless Steel alloy
44	75 Degree Large Langenbeck Retractor	To hold and retract tissues for better visualisation in shoulder surgeries	Standard	Stainless Steel alloy
45	Large Cobb	To place intra-articularly during	Standard	Stainless Steel

	Retractor	the release of the inferior capsule to protect the axillary nerve during shoulder surgery		alloy
46	Weitlander Retractor	A self-retaining , finger ring retractor with a cam retchet lock used for holding back tissue and exposing a surgical site	Standard	Stainless Steel alloy
47	Rake Retractor (Four-Prong)	Four prong retractor provides superb exposures of dissected skin.	Standard	Stainless Steel alloy
48	Mallet	Usedfor impaction during shoulder surgeries	Standard	Stainless Steel alloy
49	Acromial Retractor	Used during shoulder surgeries to retract the acromian	Small & large	Stainless Steel alloy
50	Humeral Head Retractor	Used during shoulder surgeries to retract the humerus head	Standard	Stainless Steel alloy
51	Anterior Glenoid Neck Retractor	To retract glenoid neck during shoulder surgeries	Two-Prong, three prong	Stainless Steel alloy
52	Anterior Capsular Retractor	To retract capsular anteriorly during shoulder surgeries	Standard	Stainless Steel alloy
53	Langebeck Retractor	Used in multiple surgical operations to rertract tissues	Small, Large/straight	Stainless Steel alloy
54	Crochet Hook	The Crochet Hook may be used to remove the cement restrictor from the femur. Care should be taken when using the hook due to its sharp geometry. The tip may be passed through the restrictor or along the femoral wall to engage the remaining distal construct. Ensure that the flat side of the instrument is facing the femoral wall if it is near the cortex. Once the crochet hook has been engaged it may be used to lift the distal construct from the canal.	Standard	Stainless Steel alloy with Rubber Handle & Metal Top.
55	Flag Splitter	Once the femoral component has been removed , the Flag splitter may be used to fragment any remaining cement. The blunt, non cutting edge guides the tip along the cortices to prevent perforating the femur as the sharp edge splits the cement.	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
56	V Splitter	The “V” Splitter may be used to fragement and remove cement from the proximal lateral cement mantle. It is important to remove cement laterally so that the component may move in a proximal direction without fracturing the metaphyseal bone. This instrument may also be used to fragment cement from the femoral canal after the component has been removed.	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
57	Straight & Angled	After the proximal region of the	Standard	Stainless Steel

	Gouge	femur has been cleared of cement, the straight and /or Angled Gouges may be used to simultaneously split and separated the cement for quick and efficient removal from the femur.		alloy with Rubber Handle & Metal Top
58	Reverse Curette	The Reverse Curette remove cement along the femoral wall. The tip scraped in an upward motion along the cortices. The curette may also be used to remove the cement restrictor if sufficient room exists to baypass the restrictor along the femoral wall. Once the curette tip is past the restrictor it is used to hook and lift the restrictor from the distal end	6mmx432 mm, 11 mmx432 mm,7mmx432 mm	Stainless Steel alloy with Rubber Handle & Metal Top
59	Chisel 8mm	The 8 mm Chisel may also be used to remove cement in the proximal femur. The tip is intended to debond cement from the proximal implant or to separate cement from the cortices. Removal of the cement in the proximal femur will provide better access to the cement metaphyseal/ diaphyseal junction.	8mm x 432 mm	Stainless Steel alloy with Rubber Handle & Metal Top
60	7 mm "X" Osteotome	The "X" Osteotome is an efficient tool for fragmenting the hard – distal cement mantle. Impacting and rotating this osteotome will fragment the cement so that it may be removed via suction or rongeur. This instrument can also be used to break up the cement mantle for a cemented acetabular component.	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
61	Conical Tap	In the event the cement mantle has debonded from the bone it amy be easier to remove the mantle in one piece instead of breaking it into sections. Threaded Conical Taps are offered in 9 mm and 11mm options and may be used to tap into the one piece cement mantle. Once the tap is firmly seated, used mild force to extract the cement mantle from the femur.	9mm, 11mm	Stainless Steel alloy with Rubber Handle & Metal Top
62	Twist Drill	Used to make hole in the bone to enable insertion of nails, screws, etc.	6.4mm, 8mm	Stainless Steel Alloy
63	Rongeur w/Serrated Teeth	The 300 mm self-locking Long Rongeur helps facilitate removal of cement fragements from the canal. Upon grasping cement fragments or fibrous membrane with the jaws, the handle clamp may be engaged to lock the jaws in place to ease	300 mm	Stainless Steel alloy

		cement extraction from the canal.		
64	Femoral Delivery System	Useful to take out femoral components during revision surgeries	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
65	Acetabular Gouge	Acetabular Gouges of various sizes may be used to loosen a well-fixed acetabular component. The gouges are intended to slide behind and /Or lever out a cup to debond it from the bone.	48mm x13mm 52mmx13 mm 56mmx13mm	Stainless Steel alloy with Rubber Handle & Metal Top
66	Curved Acetabular Chisel	Similar to the gouge, the Curved Acetabular chisel may be used to loosen a fixed acetabular component. The curved tip should be used when it is desirable to secure the tip in a single location and slide the chisel along the shell wall.	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
67	Round Acetab Cement Splitter	The Rounded Acetabular Cement Splitter may be used t extract the cement mantle after a cemented acetabular component is removed. The rounded tip is designed to match the curve of the extracted acetabular component and sharp edges allow for easy cement fragmentation and removal.	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
68	Slotted Mallet w/Delrin Cap	Used for extraction of component during revision	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
69	Acetabular Component Gripper	The Acetabular component Gripper is used in conjuction with the slap hammer to remove a cup with an intact polyethylene liner. Teeth on the gripper dig into and hold a polyethylene liner with an articulating surface up to 32 mm in diameter. Upon expanding the gripper teeth in the liner, apply force to extract the cup from the acetabulum.	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
70	Acetabular Component Forceps	The Acetabular Component Forceps may be used to extract a polyethylene liner during a liner exchange	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
71	Acetabular Delivery System	Useful to take out acetabular cup component during revision surgeries	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
72	Femoral Extractor Slap Hammer	To extract femoral component during revision by reverse impation	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
73	Universal Mod	To extract femoral component	Standard	Stainless Steel

	Stem Extractor	during revision		alloy with Rubber Handle & Metal Top
74	One-Piece Stem Adapter	To accept the stem during removal	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
75	Cosed Looped Extractor	An alternative option for removing a one-piece stem is the closed Loop Extractor (Cat. No 2709-03-004). The instrument works by sliding the head of the prosthesis through the loop and positioning the narrow portion of the loop around the stem neck. The slap hammer my then be attached to provide an extraction force to the loosened stem.	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
76	Hook Stem Extractor	The Hook Stem extractor is intended to extract implants that feature a transverse extraction hole. Insert the hook into the stem hole prior to connecting the slap hammer.	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
77	Locking Pliers	Locking pliers with slap hammer attachment provide extra leverage for difficult implant extraction	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
78	Locking Pliers Slap Hammer Adapter	Adapter for attachment with locking pliers	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
79	S-ROM Extractor LOOP Adaptor	Adaptor for attachment with SROM extractor	Standard	Stainless Steel alloy with Rubber Handle & Metal Top
80	Handle w/Quick Couple End	The handle attaches with small slap hammer	Standard	Stainless Steel alloy
81	Small Slap Hammer	Used for removal of components with reverse impaction	Smaller than standard size	Stainless steel alloy
82	Thin Osteotome	Well-suited for loosing implant from cement or bonyingrowth fixation during revision procedures.	8mmx76mm, 10mmx76mm 12mmx76mm 20mmx76mm 12mmx10mm Curved 8mmx127mm, curved 10mmx127mm	Stainless Steel alloy
83	Radial Osteotome	In growth on the lateral aspect of a femoral stemp with a rounded profile can ceate a challenge during revision surgery. The Radial Osteomtomes address this challenge by providing a radial	10mmx127mm 12mmx127mm 14mmx127mm	Stainless Steel alloy

		curve designed to follow th lateral contour of the stem/bone interface. These instruments are available in multiple sizes to accommodate various stem geometries. If either a flexible or radial osteotome becomes jammed, a small slap hammer may be attached to dislodge it. The small slap hammer attaches to the quick Coupling Handle to provide additional extraction force for dislodging the blade.	16mmx127mm 20mmx127mm	
84	Extra Long Osteotome	Eases to access the femoral cavity at deeper length	8mmx229mm	Stainless Steel alloy
85	Flex Chisel Blade	Provide an assortment of osteotome blades for various orthopaedic surgery procedures.	8mmx64mm, 10mmx64mm 12mmx64mm 20mmx64mm 8mmx127mm 10mmx127mm 12mmx127mm 20mmx127mm	Stainless Steel alloy
86	Flex Osteotome Delivery System	Useful to take out femoral component during revision surgeries	Standard	Stainless Steel alloy
87	Slap Hammer Shaft	Use with slap hammer, this facilities length	Standard	Stainless Steel alloy
88	Quick Connect T-Handlec	Connects with many revision instruments for removal with hand held instruments	Standard	Stainless Steel alloy
89	T –Bar Stem Extractor	To connect stem extractor and acess with handle	Standard	Stainless steel alloy
90	wrench	To tighten the revision instrument assembly	Standard	Stainless Steel alloy
91	Trephine Delivery System	Useful to take out femoral component during revision surgeries. Trephines are used to remove a fully in-grown cylindrical distal stem segement. An extended trochanteric osteotomy (ETO) or femoral window may be needed to obtain access to the stem. Prior to using the trephines, the proximal third of the stem must be transacted at the transition point where the medial curve transitions to the cylindrical distal stem segement.	Standard	Stainless Steel alloy.
92	Trephine	Trephines are used to remove a fully in-grown cylindrical distal stem segment. An extended	11mmIDx203mm 11.5mmIDx20	Stainless Steel alloy

		trochanteric osteotomy (ETO) or femoral window may be needed to obtain access to the stem. Prior to using the trephine, the proximal third of the stem must be transacted (for example, using a high-speed metal cutting burr), at the transition point where the medial curve transitions to the cylindrical distal stem segment. Upon removal of the proximal stem, the trephines may be used to "core out" the distal stem segment. The Hip Extraction Instrumentation offers trephines in 0.5 mm increments to preserve bone stock.	3mm 12mmIDx203 mm 12.5mmIDx20 3mm 13mmIDx203 mm 13.5mmIDx20 3mm 14.mmIDx203 mm 14.5mmIDx20 3mm 15.mmIDx203 mm 15.5mmIDx20 3mm 16.mmIDx203 mm 16.5mmIDx20 3mm 17.mmIDx203 mm 17.5mmIDx20 3mm 18.mmIDx203 mm 18.5mmIDx20 3mm 19.mmIDx203 mm 19.5mmIDx20 3mm 20.mmIDx203 mm 20.5mmIDx20 3mm 21.mmIDx203 mm 21.5mmIDx20 3mm 22.mmIDx203 mm 22.5mmIDx20 3mm 23.mmIDx203 mm 23.5mmIDx20 3mm 24.mmIDx203 mm	

QR SPECIFICATION

1. Company should have Manufacturing Licence from Govt. of India MD-03.
2. Company should have ISO-13485: 2016 Certificate.

3. Company should have MDSAP: Certificate.
4. All Instrument should be made of Medical Grade SS
5. All Instrument Shall Be free from roughest tips, Crack.
6. Warrant from any manufacturing defect for 1 year from the date of supply.
7. Delivery terms as per tender.

	ACl-PCL RECONSTRUCTION COMPREHENSIVE INSTRUMENTS SET	
S. no.	**Nomenclature**	**Qty**
1.	Drill Guide	Each
2.	Angled Bullet, 2.4mm ID	Each
3.	ACL foot print aimer	Each
4.	PCL Tibial Aimer	Each
5.	ACL/PCL Femoral Aimer	Each
6.	Angled Bullet, 3.5mm ID	Each
7.	Drill Bit Passing Pin, Dia, 2.4mm: Len, 250mm	Each
8.	Drill Tip Graft passing Pin, (Beadth Pin) Dia, 2.4mm: Len, 355mm	Each
9.	Tibial Reamer, Dia,6.0mm/7.0mm/8.0mm/9.0mm Cannulated	Each
10.	Tibial Reamer, Dia,6.5mm/7.5mm/8.5mm/9.5mm Cannulated	Each
11.	Femoral Reamer, Dia,6.0mm/7.0mm/8.0mm/9.0mm Cannulated	Each
12.	Femoral Reamer, Dia,6.5mm/7.5mm/8.5mm/9.5mm Cannulated	Each
13.	Bone Tunnel Pug 9-10mm	Each
14.	Tunnel Dilator 6mm /7.mm/8mm/9mm/10mm	Each
15.	T-Handle for Tunnel Dialators	Each
16.	Endoscopic Reamer, Dia, 4.7mm, Cannulated	Each
17.	Screwdriver for Bio Interference Screws Cannulated	Each
18.	Screwdriver for PEEK Interference Screws Cannulated	Each
19.	Guide Wire for interference Screws Dia, 1.2mm, Len 300 (NitinoL)	Each
20.	Depth Gauge for ACL/PCL reconstruction	Each
21.	Transportal Femoral Aimer 7mm	Each
22.	Arthroscopic Probe	Each

23.	Mirofracture Awl 30°	Each
24.	Graft Prep Station includes Graft Board, Sliding Base, Button Holder with scale, Graft Grasper Clamp-Left & Right and Suture Holder with tensioner	Each
25.	Graft Sizing Block for Dia, 6-7-8-9-10-11-12mm	Each
26.	Graft Sizing Block for Dia, 6.5-7-5-8.5-10.5-11.5mm	Each
27.	Tendon striper, Closed end 7mmk	Each
28.	Tendon Stripper, Open and 6mm	Each
29.	Notchplasty Curette	Each
30.	PCL Rasp	Each
31.	PCL Hook	Each
32.	Suture Retriever	Each
33.	Tissue Grasper	Each
34.	Guide Sleeve for al Reamer	Each
35.	Retrograde reamer for all inside ACL (7mm/8mm/9mm/10mm)	Each
36.	Graphic Case for ACL-PCL Reconstruction	Each

QQ PECIFICATION

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2. Company should have ISO-13485: 2016 Certificate.
3. Company should have MDSAP : Certificate.
4. All Instrument should be made of Medical Grade SS
5. All Instrument shall Be free from roughest tips, Crack.
6. Warrant from any manufacturing defect for 02 year from the date of supply.
7. Delivery terms as per tender.

SHOULDER ARTHROSCOPY COMPREHENSIVE INSTRUMENT SET		
Sr. No.	**Nomenclature**	**Qty.**
1	Switching Stick / Wissinger Rod	Each
2	Cannula Introducer, 8.0mm	Each
3	Cannula Introducer, 5.5mm	Each
4	Labral Probe	Each
5	Crochet Hook	Each
6	Knot Pusher	Each

7	Tissue Elevator 15°- Up	Each
8	Tissue Elevator 15°- Down	Each
9	Glenoid Rasp-Up	Each
10	Glenoid Rasp-Down	Each
11	Ring Curette	Each
12	Suture Cutter	Each
13	Suture Retreiver	Each
14	Tissue Grasper	Each
15	Penetrating Grasper, Left	Each
16	Penetrating Grasper, Right	Each
17	Penetrating Grasper, 40 Upward	Each
18	Clever Hook, Right	Each
19	Clever Hook, Left	Each
20	Hammer Small for ligament Anchor	Each
21	Spear & Trocar Straight For Peek Anchor	Each
22	Spear & Trocar Curved For Soft Ligament Anchor	Each
23	Spear & Drill Bit For Peek Knotless anchor	Each
24	Slotted Sleeve for Peek Ligament Anchor Knotless	Each
25	Drill Bit For Knotless Suture Anchor Dia 2.5 mm	Each
26	Drill Bit For Knotted Peek Ligament Anchor Dia 2.4 mm	Each
27	Drill Bit Straight aur Soft ligament anchor Dia 1.5 mm	Each
28	Reusable Suture Passer 45°, Left	Each
29	Reusable Suture Passer 45°, Right	Each
30	Reusable Suture Passer, Crescent, Straight	Each
31	Nitinol Loop Wire for Reusable Suture Passer	Each
32	Automatic Suture Passer for Rotator cuff repair	Each
33	Needle for automatic suture passer (Nitinol)	Each

34	Graphic Case for Shoulder Arthroscopy Instruments	Each

QR SPECIFICATION

1. Company should have Manufacturing Licence from Govt. of India MD-03.
2. Company should have ISO-13485: 2016 Certificate.
3. Company should have MDSAP: Certificate.
4. All Instrument should be made of Medical Grade SS
5. All Instrument Shall Be free from roughest tips, Crack.
6. Warrant from any manufacturing defect for 02 year from the date of supply.
7. Delivery terms as per tender.

OPEN LATARJET / CORACOID TRANSFER PROCESS INSTRUMENT SET		
Sr. No.	**PRODUCT DESCRIPTION**	**QTY**
1	Shoulder Retractor with 6 Blades	Each
2	Subscapularis Retractor-Blunt Tip	Each
3	Gelpi Retractor-Blunt Tip	Each
4	Self Retaining Retractor	Each
5	Glenoid Retractor 15mm wide blade with double prong	Each
6	Glenoid Retractor 18mm wide blade with double prong	Each
7	Glenoid Retractor 22mm wide blade with double prong	Each
8	Fukuda Humeral Head Retractor	Each
9	Coracoid Holding Forceps	Each
10	Glenoid Offset Parallel Drill Guide	Each
11	Drill Bit, Dia: 2.7mm, Cannulated for glenoid	Each
12	Cannulated Screw Driver SW 2.5 for LCS screw	Each
13	Guidewire Sleeve, Dia. 2.7mm for Coracoid	Each
14	Threaded Guidewire Dia. 1.2; Len. 180mm, SS	Each
15	Curved Osteotome for coracoid	Each
16	Drill Bit, Dia. 2.7mm, Len. 100.0mm for coracoid	Each

17	Depth measuring probe, Straight	Each
18	Graphic Case for BioLatarjet® Open Shoulder Instruments	Each

QR SPECIFICATION

1. Company should have Manufacturing Licence from Govt. of India MD-03.
2. Company should have ISO-13485: 2016 Certificate.
3. Company should have MDSAP: Certificate.
4. All Instrument should be made of Medical Grade SS
5. All Instrument Shall Be free from roughest tips, Crack.
6. Warrant from any manufacturing defect for 02 year from the date of supply.
7. Delivery terms as per tender.

SHOULDER TRACTION KIT			
Sr. No.	**Nomenclature**	Unit	
1	Assembly for shoulder positioning (Lateral Decubitus Position) with OT Table Clamp	1 Kit	

QR SPECIFICATION

1. Company should have Manufacturing Licence from Govt. of India MD-03.
2. Company should have ISO-13485: 2016 Certificate.
3. Company should have MDSAP: Certificate.
4. All Instrument should be made of Medical Grade SS
5. All Instrument Shall Be free from roughest tips, Crack.
6. Warrant from any manufacturing defect for 02 year from the date of supply.
7. Delivery terms as per tender.

PRODUCT DESCRIPTION	**QTY**
Meniscus Root Repair Zig consists of:	Each
Drill Guide	Each
Angled Bullet, 2.4mm ID	Each
Aimer for Meniscus Root Repair	Each
SHUTTLE FERRY® Suture Passer Mini for Knee	Each
Needle for SHUTTLE FERRY® Suture Passer Mini (Nitinol)	Each

QR SPECIFICATION

1. Company should have Manufacturing Licence from Govt. of India MD-03.
2. Company should have ISO-13485: 2016 Certificate.
3. Company should have MDSAP: Certificate.
4. All Instrument should be made of Medical Grade SS
5. All Instrument Shall Be free from roughest tips, Crack.
6. Warrant from any manufacturing defect for 02 year from the date of supply.
8. Delivery terms as per tender.

MENISCUS REPAIR INSTRUMENT SET		
Sr. No.	**PRODUCT DESCRIPTION**	**QTY**
1	Curved Probe for Meniscus Repair	Each
2	Meniscus Rasp	Each
3	Meniscus Curette	Each
4	Guide Sleeve (Double Lumen) for Meniscus Repair, Straight	Each
5	Guide Sleeve (Double Lumen) for Meniscus Repair, Curved, Left	Each
6	Guide Sleeve (Double Lumen) for Meniscus Repair, Curved, Right	Each
7	Guide Sleeve (Single Lumen) for Meniscus Repair, Straight	Each
8	Guide Sleeve (Single Lumen) for Meniscus Repair, Curved, 10°	Each
9	Guide Sleeve (Single Lumen) for Meniscus Repair, Curved, 20°	Each
10	Guide Sleeve (Single Lumen) for Meniscus Repair, Curved, 30°	Each
11	Guide Sleeve (Single Lumen) for Meniscus Repair, Curved, 40°	Each
12	Needle Pusher	Each
13	Sleeve Bender	Each
14	Knot Pusher for Meniscus Repair	Each
15	Slotted Sleeve For all inside Meniscus repair	Each
16	Graphic Case for Meniscus Repair Instruments	Each

QR SPECIFICATION

1. Company should have Manufacturing Licence from Govt. of India MD-03.
2. Company should have ISO-13485: 2016 Certificate.
3. Company should have MDSAP: Certificate.
4. All Instrument should be made of Medical Grade SS

5. All Instrument Shall Be free from roughest tips, Crack.
6. Warrant from any manufacturing defect for 02 year from the date of supply.
7. Delivery terms as per tender.

Foot & Ankle Instrument Set	
PRODUCT DESCRIPTION	**QTY**
Fluted Reamer Cannulated, Dia. 4.0mm	Each
Fluted Reamer Cannulated, Dia. 5.0mm	Each
Fluted Reamer Cannulated, Dia. 6.0mm	Each
Fluted Reamer Cannulated, Dia. 7.0mm	Each
Fluted Reamer Cannulated, Dia. 8.0mm	Each
Screwdriver for Peek Interference Screw, Cannulated, Dia. 4.0mm	Each
Screwdriver for Peek Interference Screws, Cannulated, Dia: 5.0mm	Each
Screwdriver for Peek Interference Screw Len. 23.0mm, Cannulated	Each
Guide Wire, Blunt Tip for Dia. 4.0mm Peek Interference Screws Dia. 0.8mm; Len. 200mm (SS)	Each
Guide Wire, Blunt Tip for Dia. 5.0mm-8.0mm Peek Interference Screws Dia. 1.2mm; Len. 200mm (NITINOL)	Each
Threaded Guidewire Dia. 1.2; Len. 180mm, SS	Each
Drill Bit Dia 1.2mm , Len.- 80mm for Soft Ligament Anchor Dia 1.2mm with Needle	Each
Drill Bit Dia 1.6mm , Len.- 100 mm for Soft Ligament Anchor Dia 1.5mm and 1.8mm with Needles	Each
Drill bit, Dia. 1.3mm for 1.8mm Titanium Ligament Anchor	Each
Drill bit, Dia. 1.5mm for 2.0mm Titanium Ligament Anchor	Each
Drill bit, Dia. 1.5mm for 1.8mm Peek Ligament Anchor	Each
Drill bit, Dia. 1.7mm for 2.0mm Peek Ligament Anchor	Each
Drill bit Dia. 2.6mm, Len. 100mm for Peek Double loaded 3.0mm Ligament Anchor	Each
Drill bit, Cannulated Dia. 2.8mm, Len. 100mm for Peek 3.5mm Ligament Anchor, knotless	Each
Drill Bit Dia 3.2mm, Len. 150 mm for Syndesmosis Fixation Button with Loop	Each
Drill bit, Dia. 3.5mm, Len. 100mm for 4.75mm Lateral Row Peek Ligament Anchor, knotless	Each

Suture Passing Pin, Spade- Tip (Beath Pin) Dia. 3.2mm; Len. 250mm	Each
Punch for Soft Ligament Anchor, Dia 2.9mm	Each
Tap for Peek, Dia 4.5mm & 5.5mm Peek Ligament Anchor and Dia 4.75mm & 5.5mm Peek Lateral Row Anchor	Each
Slotted Sleeve for Dia. 1.8mm & 2.0mm Titanium & Peek Ligament Anchor	Each
Slotted Sleeve for Foot & Ankle Drill bits-10004 ,10005 , 10067	Each
Graft Sizer for Foot & Ankle, Dia. 4-5-6-7-8 mm	Each
Suture passer, Banana Curved	Each
Suture Passing wire, Blunt Tip with Loop Len. 200mm	Each
Graphic Case for Foot & Ankle Instruments	Each

Small Joint Arthroscopy Set	
Specifications of Small joint scope & shaver and instruments	
2.7 mm Small joint Arthroscope complete Set (Arthroscope, Sheath and Obturator)	Each
2.7mm Wide Angle, Direct View High Definition autoclavable Arthroscope	Each
Light Guide insertion on opposite side of the direction of view with a J-lock fixation for cannula.	
Working Length of Not more than 120mm	
Angle of view: 30 degree	
Diameter 2.7 mm	
Fiber optic light transmission incorporated	
Standard ocular window for coupling the camera head	
Scratch resistance sapphire quoted tip lens	
Advanced Rod lens system for optimum brightness, contrast and definition	
Arthroscopeshould be supplied with compatible cannulas high flow, double valve, fully rotatable with fenestrated tip & conical and blunt tip obturator.	
Sheath- 3mm to 4mm, high flow diagnostic cannula, double valve, fully rotatable cannula with fenestrated tip. 1 qty	each
Trocar-3mm to 4mm conical obturator to fit with cannula. 1qty	each
1.9 mm Small joint Arthroscope complete Set (Arthroscope, Sheath and Obturator)	**each**
1.9mm, 30 degree, length 65-70 diect view HD small joint arthorscope	each
2.2 mm Short Cannula, with flow port , obturator 2.2mm	each
Compatible light guide cable 2mm	each
TMJ/Wrist Probe	each
Small joint Shaver	

Small Joint Shaver hand piece (for 2mm to 3mm blades and burrs) with hand control, suction lever and blade multi- positioning, 10 ft. (3m) cord. Shaver should be supplied with 6 small joint blades	each
Small Joint Handheld instruments	
Micro Pitbill Grasper, straight, pinless hinge design	each
Raptor Punch, straight, pinless hinge design	each
BLUNT NOSE JR. PUNCH pinless hinge design	Each
Alligator grasper	Each

QR SPECIFICATION

1. Company should have Manufacturing License from Govt. of India MD-03.
2. Company shouldhaveISO-13485:2016 Certificate.
3. Company should have MDSAP: Certificate.
4. All Instrument should be made of Medical Grade SS
5. All Instrument Shall Be free from roughest tips, Crack.
6. Warrant from any manufacturing defect for 02 year from the date of supply.
7. Delivery terms as per tender.

HIGH TIBIAL OSTEOTOMY(HTO)INSTRUMENTSET		
Sr. No.	**PRODUCTDESCRIPTION**	**QTY**
1	Bone Spreader	Each
2	OsteotomyChisel,10mm	Each
3	OsteotomyChisel,15mm	Each
4	OsteotomyChisel,20mm	Each
5	OsteotomyChisel,25mm	Each
6	DrillbitDia.3.2mm;Len.150mmfor4.5cortexscrews	Each
7	DrillBit,Dia.4.3mm,Length220mmfor5mmLockingHeadScrew	Each
8	Depth Gauge, Large	Each
9	Alignment Rod, Male/Female	Each
10	ThreadedDrillSleeveDia.4.3mm	Each
11	DrillSleeve,Threaded,Dia.3.2mm	Each
12	K-WireSleeve,dia.1.8mm	Each

13	OsteotomyJackIIwithAllenKeySW3.5	Each
14	Gap Measuring Device	Each
15	Screwdriver,StarDriverFor4.5/5.0mmScrew	Each
16	ScrewdriverShaft,StarDriverFor4.5/5.0mmScrew	Each
17	TorqueScrewdriver,StarDriverFor4.5/5.0mmScrew	Each
18	Tibial Retractor, Radioluscent	Each
19	K-Wire,Dia.1.8mm,Len.230mm(Packof4in1)	Each
20	ThreadedGuidewireDia.1.2mm;Len.180mm(Packof2in1)	Each
2	Graphic Case for HTO Instrumentation Set	Each

BBQR OF ALEX-III SHOULDER MODEL

1. Company should have Manufacturing Licence from Govt. of India MD-03.
2. Company should have ISO-13485: 2016 Certificate.
3. Company should have MDSAP: Certificate.
4. All Instrument should be made of Medical Grade SS
5. All Instrument Shall Be free from roughest tips, Crack.
6. Warrant from any manufacturing defect for 02 year from the date of supply.
7. Delivery terms as per tender.

S. No.	Nomenclature
1	Wide-angle modular portal covers and a quick-release base. In addition to capsular plication, SLAP (superior lab rum, anterior to posterior) lesion repair, rotator cuff repair (side-to-side and suture anchor to bone), and knot tying techniques, this model now also allows for biceps tenodesis (arthroscopic), PASTA (partial articular supraspinatus avulsion), and subscapularis tendon repair : 1 Pc

BBQR OF KNEE ALEX BONE MODEL

1. Company should have Manufacturing Licence from Govt. of India MD-03.
2. Company should have ISO-13485: 2016 Certificate.
3. Company should have MDSAP: Certificate.
4. All Instrument should be made of Medical Grade SS
5. All Instrument Shall Be free from roughest tips, Crack.
6. Warrant from any manufacturing defect for 02 year from the date of supply.
7. Delivery terms as per tender.

S. no.	Nomenclature

1	Arthroscopy Workstation with Knot Tester – 1 Set Complete Kit Includes: A – Clear Shell B – Base C – Opaque White Shell D – Knot Tester E –Resection-Suture Passage Module F – Simple Probing and Targeting Module G – 1 Inch Spacer H – Maze Module I – Horizontal Ring Transfer Module J – Smart Phone Module K –Vertical Ring Transfer Module L – Shoulder Module M – Knot Tying Module
2	ACL Knee Trainer, Medium. Includes soft tissue sleeve, clamps and replaceable – 2 Sets
3	Knot Pusher – 2 pc (Blunt end and does not cut suture)
4	Probe – Surgical training tool can be used in conjunction with Knot Pusher – 2 Pc
5	Grasper — Surgical training tool can be used in conjunction with Knot Pusher – 2 Pc

CYLINDRICAL HORIZONTAL AUTOCLAVE FULLY AUTOMATIC- DOUBLE DOOR

PRODUCT SPECIFICATIONS	
•	Chamber Vol: 250 liter (500x1200)
•	Electrical Power: Voltage: 440 Volts 50 Hz, 3, phase supply. Working Load 10.0 KW.
•	Working pressure and temperature – 1.2 to 2.2 kg/sq.cm
•	Sterilizing temperature up to 134 degree C
•	Material of Construction : Inner chamber, Jacket, Door: SS 316.(10mm)
•	Outer Chamber: SS 304 (Insulated properly)
•	All units are hydraulically tested up to 50 psi.
•	Steam Generator: Non corrosive SS ISI marked
•	Heater Plate. Brass/Stainless Steel
•	Pipe Line & stand: SS / High quality non corrosive steel
•	Sensor: flexible Pt 100 temperature sensor.
•	Instrumentation: Temperature, Pressure and Vacuum gauges: Steam traps, vacuum driers, water level indicator on steam generator.
•	Safety devices Pressure switch and safety valve, self locking of door when chamber is under pressure Vacuum breaker for jacket Steam generator with gauge glass valves; temperature safety device class 2 & 3.1 (DIN 12880)
•	Fully Automatic Machine with no human interference required with single door & front covered
•	7” Inch Touch Screen HMI based PLC colored panel
•	Inbuilt data logger with online software to connect to the system with 5000 data entry.
•	Supplied with 9 pin narrow carriage Impact communication High 357 CPS print speed
•	Supplied with Water Ring Type vacuum pump
•	Low Water Cut-off, emergency switch off and the over heat auto protection.
•	Autoclave comes with inbuilt Perforated Shelf & sediment screen.
•	Automatic ejector valve is digitally controlled and closes on contact with pure steam when air is exhausted.
•	6 Pre designed internal Programs to control the Sterilizer

•	Inbuilt Bowie Dick Test, Vacuum Leak Test & Liquid Cycle Test
•	Features: manufacturer & supplier should have ISO 9001, ISO 13485, FDA/EU declaration of conformity/BIS certificates EN-285,WHO certification, EN 12469
•	ELECTRIC SAFETY conforming to IEC 60601 standards, contamination clearance certificate.
•	Supplied with set of Chemical Indicator, Biological Indicator, Spare gasket, Fuse
•	Manufacturer should supply hard & soft copies of user manual, technical specifications along with certificate of calibration (ISO 17025) & inspection, 3 ys continuous SEFA & ISWASTM standards to meet strict international norms so that they can supply sturdy instrument.

CYLINDRICAL HORIZONTAL AUTOCLAVE FULLY AUTOMATIC- DOUBLE DOOR

PRODUCT SPECIFICATIONS	
•	Chamber Vol: 350 liter (600x1200)
•	Electrical Power: Voltage: 440 Volts 50 Hz, 3, phase supply. Working Load 10.0 KW.
•	Working pressure and temperature – 1.2 to 2.2 kg/sq.cm
•	Sterilizing temperature up to 134 degree C
•	Material of Construction : Inner chamber, Jacket, Door: SS 316.(10mm)
•	Outer Chamber: SS 304 (Insulated properly)
•	All units are hydraulically tested up to 50 psi.
•	Steam Generator: Non corrosive SS ISI marked
•	Heater Plate. Brass/Stainless Steel
•	Pipe Line & stand: SS / High quality non corrosive steel
•	Sensor: flexible Pt 100 temperature sensor.
•	Instrumentation: Temperature, Pressure and Vacuum gauges: Steam traps, vacuum driers, water level indicator on steam generator.
•	Safety devices Pressure switch and safety valve, self locking of door when chamber is under pressure Vacuum breaker for jacket Steam generator with gauge glass valves; temperature safety device class 2 & 3.1 (DIN 12880)
•	Fully Automatic Machine with no human interference required with single door & front covered
•	7” Inch Touch Screen HMI based PLC colored panel
•	Inbuilt data logger with online software to connect to the system with 5000 data entry.
•	Supplied with 9 pin narrow carriage Impact communication High 357 CPS print speed
•	Supplied with Water Ring Type vacuum pump
•	Low Water Cut-off, emergency switch off and the over heat auto protection.
•	Autoclave comes with inbuilt Perforated Shelf & sediment screen.
•	Automatic ejector valve is digitally controlled and closes on contact with pure steam when air is exhausted.
•	6 Pre designed internal Programs to control the Sterilizer
•	Inbuilt Bowie Dick Test, Vacuum Leak Test & Liquid Cycle Test

•	Features: manufacturer & supplier should have ISO 9001, ISO 13485, FDA/EU declaration of conformity/BIS certificates EN-285,WHO certification, EN 12469
•	ELECTRIC SAFETY conforming to IEC 60601 standards, contamination clearance certificate.
•	Supplied with set of Chemical Indicator, Biological Indicator, Spare gasket, Fuse
•	Manufacturer should supply hard & soft copies of user manual, technical specifications along with certificate of calibration (ISO 17025) & inspection, 3 ys continuous SEFA & ISWASTM standards to meet strict international norms so that they can supply sturdy instrument.

Spine Endoscopy Technical Specification

Full Endoscopic Lumbar Interlaminar, Transforaminal & Extra foraminal Decompression Set

1. Endoscope – Spine

- Endoscope with Rod lens should have outer diameter 6.9 -7.2mm with inbuilt Channel dia of 4-4.5mm & irrigation channel 1.2-1.5mm with direction of view 25 degree with total length 320-330mm & working length 200-210mm to be used for transforaminal & extra foraminal decompression of Lumbar spine.
- Endoscope with Rod lens should have outer diameter 6.9 -7.2mm with inbuilt Channel dia of 4-4.5mm & irrigation channel 1.2-1.5mm with direction of view 25 degree with total length 275-300mm & working length 160-175mm to be used for interlaminar decompression of Lumbar spine.

2. **Endoscopes and accessories**

- Adaptor to adjust the distance between the endoscope and working sleeve.
- Fiber light cable to connect the endoscope and light source.

3. **Endoscopic Spine Access instruments**

- Dilator set should have inner diameter of 1.3 mm with outer diameter 6.9-7 mm with total length of 235-245 mm for single stage dilation.
- Working Cannula should have inner diameter of 7 mm & outer dia of 7.9-8.2 mm with total length 175-190 mm having distal end with graduated elevation tip.
- Working Cannula should have inner diameter of 7 mm & outer dia of 7.9-8.2 mm with total length 110-125 mm having distal end with graduated elevation tip.
- Extension Sleeve should have inner diameter of 7 mm & outer diameter of 8-8.2 mm with total length 155-160 mm.
- Reusable flushing attachment for working Sleeve of dia 7.9-8.1 mm.
- Hammer with fiber handle

4. **Endoscopic Spine Working instruments**

- Reusable Rongeur with irrigation connection having outer dia of 2.5 mm to 4 mm with Working length 350 mm -370 mm & Total length 450 mm -470 mm.
- Reusable Rongeur with irrigation connection having outer dia of 2.5 mm to 4 mm with Working length 280 mm -300 mm & Total length 380 mm - 400 mm.

- Reusable Curved upward Rongeur with irrigation connection having outer dia of 2.4 mm – 2.6 mm with Working length 350 mm - 370 mm & Total length 450 mm -460 mm.
- Reusable Nucleus grasping forceps with irrigation connection having outer dia of 2.5 mm- 4 mm with Working length 350 mm- 370 mm & Total length 450 mm- 470 mm.
- Reusable scissors with irrigation connection having outer dia of 2.5 mm- 3.5 mm with Working length 350 mm- 370 mm & Total length 450 mm- 460 mm.
- Reusable Punch with irrigation connection having outer dia of 2.5- 4.0 mm with Working length 350 mm -370 mm & Total length 450mm - 470 mm.
- Reusable Punch with irrigation connection having outer dia of 2.5- 4.0 mm with Working length 280 mm -300 mm & Total length 380-400 mm.
- Reusable upward curved Punch with irrigation connection having outer dia of 2.4-2.6 mm with Working length 350-370 mm & Total length 450-460 mm.
- Reusable dismantling Sheath tube Punch with irrigation connection having outer dia of 3 mm - 4 mm with WL 290 mm -360 mm & Total length 490-510 mm.
- Reusable atraumatic Dissector having outer dia of 2.4-2.6 mm with WL 345-355 mm.
- Reusable atraumatic Dissector having outer dia of 3-3.1 mm with WL 345-355 mm.
- Reusable Annulotome with dia 2.5- 3 mm with working length 345-355 mm.
- Reusable Face miller with dia 3.5- 4.1 mm with working length 340-350 mm.
- Reusable Exploring hook with dia 2.4- 2.6 mm with working length 285-295 mm.
- **Puncture Needle Set**

- Puncture needle with dia 17G (OD 1.5mm) with length 250-255mm.

5. **Sterilization Instrument Basket**

- Sterilization basket with Sieve.

6. **Radiofrequency Surgical Ablation System**

- Radiofrequency Surgical Ablation System should have following features - RF machine should work on 4-4.2 MHZ frequency for effective Monopolar/Bipolar application.
- RF System should have Monopolar & Bipolar mode for versatile usage in Spine Surgery. There should be 2 Monopolar Cutting modes (CUT1/ CUT2) & 2 Monopolar coagulation modes (CONTACT/ SPRAY) for precise cutting & coagulation. Additionally, should have Auto start function for bipolar modes.
- It should have Bipolar Cutting modes (BICUT1/ BICUT2) & 2 Bipolar coagulation modes (STANDARD/ PRECISE)
- It should have Neutral electrode monitoring through Split neutral plate permanently via skin resistance.
- RF Console should work with 4 pre-stetted programs.
- RF Console should deliver Maximum Power output of 100W on Monopolar Cut & 80W on Bipolar Cut mode. Also, should deliver power of 80W on Bipolar Cut & Coagulation mode.
- Monopolar function should control through footswitch or hand-controlled RF probe & bipolar function should controlled through Footswitch or Auto start mode.

- Foot switch should have two pedals for Cutting & Coagulation with inbuilt 4m connecting Cable.
- RF Console should be Microprocessor controlled device with safety management with foil keys control buttons with numeric display. It should have acoustic & optical alarm system in case of any error.
- RF Console should have Medical device directive 93/42/EEC & CE certified & should take automatic storage of last user settings.

7. **Bipolar RF Instruments**

- Bipolar RF instrument should have sheath tube dia of 2.4-2.6 mm with length 275-285 mm.
- Bipolar RF instrument should have sheath tube dia of 2.4-2.6 mm with length 345-355 mm.

Tip controlled Single use flexible RF electrode bipolar of dia 2.5 mm.

Bipolar RF connection Cable with total length 2.9-3.1 m

8. **Shaver System - to remove the bones Endoscopically:**

Motor unit

- Device control and adjustment of all functions and user settings via washable and disinfect able touchscreen user guidance.
- Free definition and storage of all user data's (speed, torque, tools) for different users by pressing a key.
- Automatic instrument and tool identification while connecting to the controller device (RFID) - Predefinition of all parameters.
- Memory function - data storage of number of applications and time of use for all reusable shaver blades and burrs.
- Simultaneous connection of 2 hand pieces.
- Universal plugs for all connecting cables of hand pieces.
- Microprocessor controlled safety management.
- Supply voltage in VAC should be 100-230V.
- Supply frequency in Hz. Should be 50/60.
- Measurements - BxHxT in mm should be 330 x 155 x 390.

Foot switch

- Two pedals for main adjustments -Oscillation, right/ left direction, speed adjustments, blade toggling)

High-speed - Shaver hand piece

- Motorized hand piece for arthroscopic operations incl. adjustable suction valve, connection of shaver blades and burrs D2 to 8mm, optionally use via hand control button or foot switch, including connecting cable.
- Range of speed should be 10-16000rpm.
- Rotatable shaver blades and burrs (ca.270°) within the hand piece.
- Weight should be 350-400g.

Burrs

Wide range of reusable and disposable shaver blades.

- Oval Burrs reusable with lateral protection outer diameter 3mm - 4 mm and working length 340 mm - 360 mm.

- Oval Burrs reusable with Front guard outer diameter 3 mm - 4 mm and working length 340 mm- 360 mm.
- Round Burrs reusable without protection outer diameter 3mm - 4 mm and working length 340 mm – 360 mm.
- Diamond Round Burrs reusable without protection outer diameter 3 mm – 4 mm and working length 340 mm - 360 mm.
- Nucleus resector smooth reusable with outer diameter 3 mm- 4 mm and working length 340 mm - 360 mm.
- Tip control articulating bone burrs with outer diameter 3 mm- 4 mm and burr insert round with 3.4 mm -3.6 mm.

9. **Fluid Management System**

Fluid management system should have the following features:

- It should combine both the irrigation and suction pump in a single unit.
- It should have spine mode option for permanent pressure monitoring and excess pressure regulation less than 50 mmHg to prevent the compression of neural structures.
- It should reduce the flow rate automatically when the pressure generated by the irrigation medium rises at the operating site.
- It should give both Optical and acoustic alerts when critical overpressures occur.
- Should have the general settings of selecting the options based on the size and diameter of the disco scopes.
- The system should be equipped with high pressure and pumping capacities, pressure: up to 200 mmHg and pumping capacity: up to 2 l/m.
- Should have large touch screen to access the various options and modes conveniently.
- Optimum endoscopic visualization of the spinal canal and disk space.
- Low consumption of irrigation fluid through optimally regulated flow performance.

Irrigation Tube set Spike.

- Reusable irrigation tube set spike compatible with the fluid management system.

Stenosis Full- endoscopic Interlaminar decompression

1. **Endoscope – Spine**

- Endoscope with Rod lens should have diameter 9.2 -9.5 mm with inbuilt working Channel dia of 5-5.5mm with direction of view 20 degree & working length 170-180 mm to be used for Interlaminar decompression of Lumbar spine.

2. **Access Instruments**

- Dilator set should have inner diameter of 7 mm with outer diameter 9-9.5mm with total length of 230-240mm for single stage dilation.
- Working Cannula should have inner diameter of 9.5mm & outer dia of 10.4-10.6 mm with total length 110-125 mm having distal end with graduated elevation tip.

- Reusable flushing attachment for working Sleeve of dia 10.5—10.8 mm.

3. **Working Instruments**

- Reusable punch having dia of 5.2-5.6mm with Working length 330-350 mm & Total length 480-500 mm.
- Reusable punch having dia of 5.2-5.6mm with Working length 330-350 mm & Total length 480-500 mm.
- Reusable Kerrison Punch having dia 5.5x 4.5mm with working length 370-390 mm & Total length 460-470 mm.
- Reusable Kerrison Punch having dia 5.5x 4.5mm with working length 370-390 mm & Total length 460-470 mm.
- Reusable Rongeur with irrigation connection having outer dia of 3.8 to 4.2 mm with working length 280-300 mm & Total length 380-390 mm.
- Reusable Punch with irrigation connection having outer dia of 2.8-3.2mm with working length 280-300 mm & Total length 380-390 mm.
- Reusable atraumatic Dissector having outer dia of 2.4-2.6 mm with WL 340-355 mm.
- Reusable Face miller with dia 3.5- 4.1 mm with working length 340-350 mm.

4. **Sterilization Instrument Basket**

- Sterilization basket with Sieve.

5. **Burrs**

- Oval Burrs reusable with lateral protection for extraction of bony structures outer diameter 5 mm - 6 mm and working length 280 mm – 300 mm.
- Off-center Oval Burrs reusable with lateral protection for extraction of bony structures outer diameter 5 mm - 6 mm and working length 280 mm – 300 mm.
- Round Burrs reusable for extraction of bony structures with outer diameter 5 mm – 6 mm and working length 280 mm – 300 mm.
- Round Diamond Burrs reusable for extraction of boy structures with outer diameter 5 mm – 6 mm and working length 280 mm – 300 mm.

NOTE: ALL ITEMS ARE TO BE SUPPLIED FROM SAME MANUFACTURER.

ELECTRICAL OPERATED BONE DRILLING AND CUTTING SYSTEM

Scope of Supply:-

Drill hand piece, Reaming Hand piece, Wire Drive Hand piece, Oscillating Saw Hand piece, Saw Blades, Surgical Drill Bits, Motor Driving Unit with Stand, Base Flexible Shaft, Foot Control, Flexible Reamers, Reciprocating Saw Hand piece, Autoclave Box for Reamers.

Bone Drilling Handpiece:

Cannulated size 5mm, Non-Corrosive Metal, Universal Drill Hand piece, Pistol Grip Stainless Steel Jacob drill Chuck (0-1/4") attachment with the driiling hand piece 1200rpm

Saw Handpiece:

Blades angle should be 45 /90 degree adjustable, sagittal, Oscillating type Saw Handpiece minimum CPM 13000 suitable for TKR, TJR, THR, Surgery, Amputation 5 number Blades to be provided and should be High Quality Non-Corrosive Stainless Steel

Wire driver Hand piece:- Should Hold 0.85-3.5 mm wire

Driving Unit:- 220 volt AC Foot Controlled on/off, speed control

Flexible Shat Length:- 1.5 mtr. Min, push Pull type Autoclavable

Accessories for Reamers Stand:- Base Foot Control, Saw blades set, MCB, Surgical drill bits, Autoclavable box

Warranty: - 5 Years

Compliance:- ISO 9001, ISO 13485