BIDDING DOCUMENT

(Two Bid System for Machinery & Equipment)

FOR

NATIONAL CANCER INSTITUTE
ALL INDIA INSTITUTE OF MEDICAL SCIENCES
(JHAJJAR CAMPUS)

NIB Ref: HITES/PCD/NCI-AIIMS/55/22-23

HITES
HLL INFRA TECH SERVICES LTD

B-14 A, Sector-62, Noida - 201 307
Phone: 0120-4071500; Fax: 0120-4071513
URL: www.hllhites.com
Email: hll.ncij@hllhites.com

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SECTION -I

NOTICE INVITING BIDS (NIB)

ALL INDIA INSTITUTE OF MEDICAL SCIENCES

Ansari Nagar, New Delhi-110 029

NIB Ref: HITES/PCD/NCI-AIIMS/55/22-23 **Dated: 01.04.2023**

Procurement & Consultancy Services Division of **HLL INFRA TECH SERVICES LIMITED** (a fully owned subsidiary of HLL Lifecare Ltd., a Govt. of India Enterprise) for and on behalf of **Director, AIIMS - New Delhi,** invites e-tenders in two bid system (technical and price bid) from the reputed, eligible & qualified firms/ manufacturers for purchase/supply of following goods at **National Cancer Institute-AIIMS, Jhajjar, Haryana.**

Sl. no.	Tender ID	Short Description of goods	Quantity (Nos.)	Bid Security (BS) (Rs.)	Tender Processing Fee incl. GST (Rs.)
1	2023_HLL_150830_1	Establishment of Physiotherapy Lab	1 Set	49,00,000	2,950

Pre-bid conference meeting with prospective bidders		Scheduled Date & Time
Venue for pre-bid meeting:	Committee Room (No. 149), 1st Floor, Dr. BRA IRCH Building, AIIMS, New Delhi-29.	17.04.2023 at 02:30 PM
Last date and time of submission of tender:		04.05.2023 at 02:00 PM
Date and time of tender opening:		05.05.2023 at 02:30 PM

Contact Person: HEAD (PCD), HITES; Email: hll.ncij@hllhites.com

2. Interested bidders are advised to download the Bidding document from the websites www.hllhites.com or https://etenders.gov.in/eprocure/app for complete details.

3. Bidders shall ensure that their tender(s), complete in all respects, are submitted online through CPPP website: https://etenders.gov.in/eprocure/app only**.**

4. The Bidder shall download the Bidding Document directly from the designated websites and shall not tamper/modify it including downloaded Price Bid template in any manner. In case the same is found to be tempered/modified in any manner, Tender/Bid will be summarily rejected and EMD would be forfeited.

5. Bidders are advised to follow the instructions, for registering and online submission of their bid(s), as provided in the CPPP website and are requested to read them carefully before proceeding for bidding.

6. Bidders should be in possession of valid Digital Signature Certificate (DSC) of class III for online submission of bids. Prior to bidding, DSC need to be registered on the website mentioned above.

7. All prospective bidders (maximum two representative of a firm bearing ID proof issued by their firm) may attend the Pre-bid conference meeting. The venue, date and time indicated

above.

8. The bidders shall submit the required Tender Processing Fee (in form of Demand Draft or Banker's Cheque) and EMD (as per GIT clause no. 19.3) in physical form in favour of **'HLL Infra Tech Services Limited**' at the scheduled time and venue. Tender processing Fee is required from all the bidders irrespective of their registration with NSIC or any other Govt. organisation.

9. **Tender Processing Fee and Bid Security (BS) in original** should be deposited, within the scheduled latest date & time of tender submission as mentioned above, in the Tender Box located at: **HLL Infra Tech Services Limited, Procurement and Consultancy Services Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh,** failing which the bid shall be summarily rejected.

10. Prospective bidders are advised to browse the above websites regularly before submission of their bids as any further amendments will be published in these websites only.

CEO (HITES)

SECTION-II

GENERAL INSTRUCTIONS TO BIDDERS (GIB)

1. Language of Bid; Definitions and Abbreviations:

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

1.1 The following definitions and abbreviations, which have been used in these documents shall have the meanings as indicated below:

1.2. Definitions:

i. "Purchaser" means HLL INFRA TECH SERVICES LIMITED (HITES) for and on behalf of The Director, AIIMS, New Delhi.
ii. "Bid" means Quotation / Tender received from a Firm / Tenderer / Bidder.
iii. "Bidder" means Tenderer/ the Individual or Firm submitting Bids / Quotation / Tender
iv. "Supplier" means the individual or the firm supplying the goods and services as incorporated in the contract/purchase order.
v. "Goods" means all articles, material, commodity, livestock, furniture, fixtures, raw material, spares, instruments, machinery, equipment, vehicles, medicines, assemblies, sub-assemblies, accessories, intangible products like software, technology transfer, licenses, patents or other intellectual properties purchased or otherwise acquired for the use of Government but excludes books, publications, periodicals, etc. for a library. The term 'goods' also includes works and services which are incidental or consequential to the supply of such goods, such as, transportation, insurance, installation, commissioning, training and maintenance.
vi. "Services" means services allied and incidental to the supply of goods, such as transportation, installation, commissioning, provision of technical assistance, training, after sales service, maintenance service and other such obligations of the supplier covered under the contract.
vii. "Bid Security" (BS) means Earnest Money Deposit / monetary or financial guarantee to be furnished by a bidder along with its tender.
viii. "Contract" means the written agreement entered into between the purchaser and the supplier, together with all the documents mentioned therein and including all attachments, annexure etc. therein.
ix. "Performance Security" means monetary or financial guarantee to be furnished by the successful bidder for due performance of the contract placed on it. Performance Security is also known as Security Deposit.
x. "Consignee" means the Center/Hospital/Department/Sections /person to whom the goods are required to be delivered as specified in the Contract.
xi. "Specification" also called Technical Specifications means the document/standard that prescribes the requirement with which goods or service has to conform.

xii. "Inspection" means activities such as measuring, examining, testing, gauging one or more characteristics of the product or service and comparing the same with the specified requirement mentioned in the contract to determine conformity.

xiii. "Day" means calendar day.

2. Availability of Funds

Expenditure to be incurred for the proposed purchase will be met from the funds available with the Buyer.

3. Amendments to a Bidding documents

At any time prior to the deadline for submission of bids, the buyer may, for any reason deemed fit by it, modify the Bidding Documents by issuing suitable amendment(s) to it and the same shall be binding on the bidders.

4. Documents comprising the e-Bid

4.1 The bid(s) shall only be submitted online as mentioned below:

A) Techno-commercial Bid (Un-priced Bid)

i) Bid Form as per Section IX
~~ii)~~ Bid Security furnished in accordance with GIB clause 9.1 alternatively, documentary evidence as per GIB clause 9.2 for claiming exemption from payment of Bid Security
iii) Checklist as per Section-XI
iv) Documentary evidence related to Past Performance as asked in the Experience Criteria.
v) Bidder who quotes for goods manufactured by other manufacturer shall furnish Manufacturer's Authorisation Form as per Section VIII
vi) A self-declaration confirming for Sole Proprietorship/Partnership/Private Limited Firm as the case may be. Firm should enclosed the GST Certificate.
vii) A declaration that bidder does not have any relation with the person authorized to evaluate technically or involve in finalizing the tender or will decide the use of tendered items.
viii) A declaration that the bidder has read the clause of Govt. Order dated 23.07.2020 (Public Procurement no. 1) read with its subsequent order(s) regarding restrictions on procurement from a bidder of a country which shares a land border with India and hereby declare that this bidder is not from such a country, or, if from such a country has been registered with the competent authority (evidence of valid registration by the competent authority attached) and is eligible to be considered.
ix) Copies of audited balance sheet and profit & loss account as per tender requirement.
x) Product catalogues/Data Sheets for the quoted items.
xi) Copies of quality certificates, if applicable, namely, BIS, ISO, FDA, CE, etc.

B) Price Tender:

Price Schedule(s) as per format provided in the portal, duly filled in with all the details including Make, Model, HSN Code etc. of the goods offered, is to be uploaded.

The price bid format is provided in excel format along with this Bidding Document at https://etenders.gov.in/eprocure/app under given Tender ID.

Bidders are advised to download this Price Bid Format as it is and quote their offer/rates in the permitted column and upload the same in the Price Bid. **Bidder shall not tamper/modify the downloaded price bid template in any manner**. The Instruction given in the Price Bid Format shall strictly be adhered to.

5.1 **GST (Goods & Services Tax)**

Bidders are advised to check applicable GST on their own before quoting. Buyer will not take any responsibility in this regards. GST reimbursement will be as per actuals or as per applicable rates (whichever is lower), subject to maximum of quoted GST%.

6. Scrutiny of Bids

6.1 The following are some of the important aspects, for which a bid shall be declared non-responsive during the evaluation and may be ignored;

(i) Bid form as per Section IX not enclosed.
(ii) Bid Security furnished in accordance with GIB clause 9.1 alternatively, documentary evidence as per GIB clause 9.2 for claiming exemption from payment of Bid Security
(iii) Checklist as per Section-XI
(iv) Bid validity is shorter than the required period.
(v) Bidder has quoted for goods manufactured by other manufacturer(s) without the desired Manufacturer's Authorization Form as per Section VIII.
(vi) Bidder has not agreed to other essential condition(s) specially incorporated in the bidding document like delivery terms, delivery schedule, payment terms, liquidated damages clause, warranty clause, dispute resolution mechanism, declaration(s) and applicable law.
(vii) Poor/unsatisfactory past performance.
(viii) Bidder does not meet the asked technical criteria of the Goods in tender
(ix) Declaration regarding restrictions on procurement from a bidder of a country which shares a land border with India.

7. Alternative Models/ One Bid per Bidder

7.1 If an agent submits bid on behalf of the Principal/OEM, the same agent shall not submit a bid on behalf of another Principal/OEM in the same Advertised Tender/Bid Enquiry for the same item/product. In a bid, either the Indian Agent on behalf of the Principal/OEM or Principal/OEM itself can bid but both cannot bid simultaneously in the same Advertised Tender Enquiry.

7.2 One Principal/OEM cannot authorized two agent simultaneously for the same item against same Advertised Tender Enquiry.

8. Minor Informality/Irregularity/Non-Conformity

8.1 If during the evaluation, the purchaser/buyer find any minor informality and/or irregularity and/or non-conformity in a bid, the purchaser may convey its observation on such 'minor' issues, which has not price implication, to the bidders by registered/speed post/ e-mail/fax etc. asking the bidder to respond by a specified date. If the bidder does not reply by the specified date or gives evasive reply without clarifying the point at issue in clear terms, that bid will be liable to be ignored.

9. Bid Security

9.1 The bidder shall furnish along with its bid, Bid Security for amount as shown in the bid document. The Bid Security is required to protect the purchaser against the risk of the bidder's unwarranted conduct as amplified under sub-clause 9.7 below.

9.2 The bidders who are currently registered with MSME for the specific goods as per bidding document specification shall be eligible for exemption from Bid Security as defined in MSE Procurement Policy issued by the department of MSME. In case the bidder falls in this category, the bidder shall enclose relevant certificate of registration issued by department of MSME.

Note: Traders/resellers/distributors/authorized agents will not be considered for availing benefits under PP Policy 2012 for MSEs as per MSE guidelines issued by MoMSME

9.3 The Bid Security shall be denominated in Indian Rupees. The Bid Security shall be furnished in one of the following forms:

i) Account Payee Demand Draft/ Banker's cheque
ii) Fixed Deposit Receipt
iii) Bank Guarantee
iv) Insurance Surety Bond

9.4 The **Demand Draft** or **Banker's Cheque** or **Fixed Deposit Receipt** shall be drawn on any commercial bank in India or country of the bidder, in favour of the "……."(as indicated bid document) payable at New Delhi. In case of **Bank Guarantee**, the same is to be provided from any commercial bank in India or country of the bidder as per the format specified under Section VII in this document.

9.5 The Bid Security shall be valid for a period of forty-five (45) days beyond the validity period of the bid. As offer validity period of Tender is One Hundred Eighty (180) days, the EMD shall be valid for 225 days from Techno – Commercial Tender opening date. The techno-commercial tender opening date shall be considered as mentioned in bid document read with it's amendment(s), if any.

9.6 The Bid Security of unsuccessful bidders will be returned without any interest, after expiry of the bid validity period, but not later than thirty days after conclusion of the resultant contract. The Bid Security of successful bidder will be returned without any interest, after receipt of performance security from that bidder.

9.7 Bid Security is required to protect the purchaser's right against the risk of the Bidder's conduct, which would warrant the forfeiture of the Bid Security. Bid

Security of a bidder will be forfeited, if the bidder withdraws or amends its bids or impairs or derogates from the bid in any respect within the period of validity of its bid or if it comes to the notice that the information/documents furnished in its bid is incorrect, false, misleading or forged without prejudice to other rights of the purchaser. The Bid Security of the successful bidder will be forfeited without prejudice to other rights of Purchaser if it fails to furnish the required performance security within the specified period.

9.8 The Bid Security of the successful bidder and the unsuccessful bidder will be returned to the respective bidder without any interest.

10 Qualification Criteria

Bids of the bidder, who do not meet the required Qualification Criteria prescribed in Section VIII, will be treated as non-responsive and will not be considered further.

11. Submission of Bids:

11.1 Unless otherwise specified, the bidders are to drop the original Tender Processing Fee and Bid Security, if applicable, in the tender box located at **HLL Infra Tech Services Limited, Procurement and Consultancy Division, B-14 A, Sector-62, Noida-201307, Uttar Pradesh**. A bid, which is received after the specified date and time for receipt of bids will be treated as "late bid" and will be ignored.

11.2 The bidders must ensure that they submit the on-line bids within the scheduled closing date & time. Bidder should prepare the Bid Security/EMD as per the instructions specified in the Tender Enquiry Document. The original should be dropped in the Tender Box latest by the last date of bid submission or as specified in the Bidding Document. The details of the DD/any other accepted instrument, physically sent, should tally with the details available in the scanned copy and the data entered during bid submission time. Otherwise the uploaded bid will be rejected. In the event of the specified date for submission of bid falls on / is subsequently declared a holiday or closed day for the purchaser, the bids will be received up to the appointed time on the next working day.

11.3 Bidder should log into the site well in advance for bid submission so that they can upload the bid in time i.e. on or before the bid submission time. Bidder will be responsible for any delay due to other issues.

12. Bidder's capability to perform the contract

12.1 The above-mentioned determination will, inter alia, take into account the bidder satisfying all the requirements of the purchaser/buyer as incorporated in the Bidding Document. Such determination will be based upon scrutiny and examination of all relevant data and details submitted by the bidder in its bid as well as such other allied information as deemed appropriate by the purchaser/buyer.

13. Contacting the Purchaser

13.1 From the time of submission of bid to the time of awarding the contract, if a bidder needs to contact the purchaser/buyer for any reason relating to NIB/Bidding Document and / or its bid, it should do so only in writing.

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

14 Comparison of Bids

14.1 Unit Prices for all optional items/accessories/services (if any) asked in the tender specifications must be quoted separately by all the bidders in their price bid. Such unit prices after multiplying by the required quantity shall be added and taken into consideration for comparison and ranking of bids

14.2 The comparison of bids will be, as specified in the Technical specification(s). However, at the time of award of contract, the value of award (bid value/contract value) shall be limited to the upfront charges payable by the exchequer for Supply, Installation, Testing & Commissioning value only on DDP basis which is inclusive of warranty and any other item(s)/services detailed for upfront purchase in the technical specifications. The cost of any other parameters like CAMC price beyond the warranty period, cost of any Consumables, any other recurring expenditure, etc. which have been considered for ranking of bids or for freezing of rates shall not be part of tender/award/bid/contract value.

15. AWARD OF CONTRACT

15.1 Purchaser's Right to accept any bid and to reject any or all bids. - The purchaser reserves the right to accept in part or in full any bid or reject any or more bid(s) without assigning any reason or to cancel the Tender process and reject all bids at any time prior to award of contract, without incurring any liability, whatsoever to the affected bidder(s).

16. Variation of Quantities at the Time of Award/ Currency of Contract

16.1 At the time of awarding the contract, the purchaser/buyer reserves the right to increase or decrease by up to twenty five (25) percent, the quantity of goods and services without any change in the unit price and other terms & conditions quoted by the bidder.

16.2 If the quantity has not been increased at the time of the awarding the contract, the purchaser/buyer reserves the right to increase by up to twenty five (25) percent, the quantity of goods and services mentioned in the contract (rounded off to next whole number) without any change in the unit price and other terms & conditions mentioned in the contract, during the currency of the contract.

17. CORRUPT OR FRADULENT PRACTICES

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

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

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

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

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

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

SECTION – III

SPECIAL INSTRUCTIONS TO BIDDERS (SIB)

The following Special Instructions to Bidders will apply for this purchase. These special instructions will modify/substitute/supplement the corresponding General Instructions to Bidders (GIB) incorporated in Section II. The corresponding GIB clause numbers have also been indicated in the text below:

In case of any conflict between the provision in the GIB and that in the SIB, the provision contained in the SIB shall prevail.

Sl. No.	GIB Clause No.	SIB Provision
A	1 to 14	No Change

SECTION - IV

GENERAL CONDITIONS OF CONTRACT (GCC)

1. Application

1.1 The General Conditions of Contract incorporated in this section shall be applicable for this purchase to the extent the same are not superseded by the Special Conditions of Contract

2. Use of contract documents and information

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

3. Patent Rights

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

4. Country of Origin

4.2 The country of origin is to be specified in the bid.

5. Performance Security

5.1 Within Thirty (30) days from date of the issue of contract by the Purchaser/buyer, the supplier, shall furnish Performance Security to the Purchaser/buyer for an amount equal to three percent (3%) of the total value of the contract, valid up to sixty (60) days after the date of completion of all contractual obligations by the supplier, including the warranty obligations.

5.2 The Performance security shall be denominated in Indian Rupees or in the currency of the contract as detailed below:

It shall be in any one of the forms namely Account Payee Demand Draft or Fixed Deposit Receipt drawn from any Scheduled bank in India or Bank Guarantee issued by a Scheduled bank in India, this document in favour of the

Purchaser/buyer. The validity of the Fixed Deposit Receipt or Bank Guarantee will be for a period up to sixty (60) days beyond Warranty Period.

5.3 In the event of any failure/default of the supplier with or without any quantifiable loss to the government including furnishing of consignee wise Bank Guarantee for CAMC security, the amount of the performance security is liable to be forfeited. The needful will be done to cover any failure/default of the supplier with or without any quantifiable loss to the Government.

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

5.5 The supplier shall enter into Comprehensive Annual Maintenance Contract with respective consignees, 3 (three) months prior to the completion of Warranty Period. The CAMC will commence from the date of expiry of the Warranty Period.

5.6 Subject to GCC sub clause above, the Purchaser/buyer will release the Performance Security without any interest to the supplier on completion of the supplier's all contractual obligations including the warranty obligations & after receipt of Consignee wise bank guarantee for CAMC security in favour of concerned Director AIIMS.

6. Technical Specifications and Standards

6.1 The Goods & Services to be provided by the supplier under this contract shall conform 'Technical Specification' of this document.

7. Packing and Marking

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

7.2 The quality of packing, the manner of marking within & outside the packages and provision of accompanying documentation shall strictly comply with the requirements as provided in Technical Specifications. In case the packing requirements are amended due to issue of any amendment to the contract, the same shall also be taken care of by the supplier accordingly.

7.3 Packing instructions:

Unless otherwise mentioned in the Technical Specification and in SCC under Section IV, the supplier shall make separate packages for each consignee (in case there is more than one consignee mentioned in the contract) and mark each package on three sides with the following with indelible paint of proper quality:

a. Contract number and date
b. Brief description of goods including quantity
c. Packing list reference number

d. Country of origin of goods
e. Consignee's name and full address and
f. Supplier's name and address

8. Inspection, Testing and Quality Control

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

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

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

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

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

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

"On rejection, the supplier shall remove such stores within 14 days of the date of intimation of such rejection from the consignee's premises. If such goods are not removed by the supplier within the period mentioned above, the purchaser/consignee may remove the rejected stores and either return the same to the supplier at his risk and cost by such mode of transport as purchaser/consignee may decide or dispose of such goods at the suppliers risk to recover any expense incurred in connection with such disposals and also the cost of the rejected stores if already paid for."

8.7 Goods accepted by the purchaser/buyer and/or its inspector at initial inspection and in final inspection in terms of the contract shall in no way dilute purchaser's /buyer right to reject the same later, if found deficient in terms of the warranty clause of the contract.

9. Terms of Delivery

9.1 Goods shall be delivered by the supplier in accordance with the terms of delivery and as per the delivery period specified in the schedule of requirement. Please note that the time shall be the essence of the contract.

10. Transportation of Goods

10.1 Instructions for transportation of goods offered:

The supplier shall not arrange part-shipments without the express/prior written consent of the purchaser.

11. Insurance

11.1 The supplier shall make arrangements for insuring the goods against loss or damage incidental to manufacture or acquisition, transportation, storage and delivery in the following manner:

i) In case of supply of domestic goods on Free Delivery at Consignee's Site basis, the supplier shall be responsible till the entire stores contracted for arrival in good condition at destination. The transit risk in this respect shall be covered by the Supplier by getting the stores duly insured for an amount equal to 110% of the value of the goods from warehouse to warehouse (consignee site) on all risk basis. The insurance cover shall be obtained by the Supplier and should be valid till 3 months after the receipt of goods by the Consignee.

ii) If the equipment is not commissioned and handed over to the consignee within 3 months, the insurance will have to be extended by the supplier at their cost till the successful installation, testing, commissioning and handing over of the goods to the consignee. In case the delay in the installation and commissioning is due to handing over of the site to the supplier by the consignee/End User, such extensions of the insurance will still be done by the supplier, but the insurance extension charges at actual will be reimbursed.

12. Spare parts

12.1 If specified in the List of Requirements and in the resultant contract, the supplier shall supply/provide any or all of the following materials, information etc. pertaining to spare parts manufactured and/or supplied by the supplier:

a) The spare parts as selected by the buyer/End User to be purchased from the supplier, subject to the condition that such purchase of the spare parts shall not relieve the supplier of any contractual obligation including warranty obligations; and

b) In case the production of the spare parts is discontinued:

i) Sufficient advance notice to the buyer/End User before such discontinuation to provide adequate time to the purchaser/buyer to purchase the required spare parts etc., and

ii) Immediately following such discontinuation, providing the buyer/End User, free of cost, the designs, drawings, layouts and specifications of the spare parts, as and if requested by the buyer/End User.

12.2 Supplier shall carry sufficient inventories to assure ex-stock supply of consumables and spares for the goods so that the same are used during warranty and CAMC period.

13. Incidental services

13.1 The supplier shall be required to perform the following services:

i) Installation & Commissioning, Supervision, Demonstration, Trial run etc. of the goods.
ii) Turnkey work (if any).
iii) Training of Consignee's/End Users Doctors, Staff, operators etc. for operating and maintaining the goods.
iv) Supplying required number of operation & maintenance manual for the goods.

14. Distribution of Dispatch Documents for Clearance/Receipt of Goods

The supplier shall send all the relevant dispatch documents well in time to enable the purchaser/buyer clear or receive (as the case may be) the goods in terms of the contract. Unless otherwise specified in the SCC, the usual documents involved and the drill to be followed in general for this purpose are as follows:

Within 24 hours of dispatch, the supplier shall notify the concerned Store Officer in AIIMS Clearing Agent and others concerned the complete details of dispatch and also supply following documents by air mail/ courier etc. with intimation by e-mail:

a) Commercial Supplier's Invoice giving full details of the goods including quantity, value, etc.
b) Packing list;
c) Insurance Certificate; (if applicable)
d) Manufacturer's guarantee and Inspection certificate; (if applicable)
e) Inspection certificate issued by the Purchaser's Inspector; (if applicable)
f) Any other document(s) as and if required in terms of the contract.

15. Warranty and CAMC

15.1 The supplier warrants comprehensively that the goods supplied under the contract is new, unused and incorporate all recent improvements in design and materials unless prescribed otherwise by the purchaser/buyer in the contract. The supplier further warrants that the goods supplied under the contract shall have no defect arising from design, materials (except when the design adopted and/or the material used are as per the Purchaser/buyer's specifications) or workmanship or from any act or omission of the supplier, that may develop under normal use of the supplied goods under the conditions prevailing in India.

15.2 The warranty shall include all spares, labour and preventive maintenance from the date of completion of the satisfactory installation and acceptance till warranty period.

15.3 The Comprehensive Annual Maintenance Contract shall include all spares, labour and preventive maintenance from the date of completion of the satisfactory installation and acceptance till warranty period.

15.4 Warranty as well as Comprehensive Annual Maintenance Contract will be inclusive of all accessories and turnkey work and it will also cover the following, wherever applicable:-

- All kinds of Motors.
- Plastic & Glass Parts against any manufacturing defects.
- All kinds of sensors.
- All kinds of coils, probes and transducers.
- Printers and imagers including laser and thermal printers with all parts.
- UPS including the replacement of batteries.
- Air-conditioners

15.5 In case of any claim arising out of this warranty and CAMC period the Purchaser/Consignee shall promptly notify the same in writing to the supplier.

15.6 Upon receipt of such notice, the supplier shall, within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis respond to take action to repair or replace the defective goods or parts thereof, free of cost, at the ultimate destination. The supplier shall take over the replaced parts/goods after providing their replacements and no claim, whatsoever shall lie on the purchaser/buyer for such replaced parts/goods thereafter. The penalty clause for non-rectification will be applicable as per conditions laid down in the Bidding Document.

15.7 In the event of any rectification of a defect or replacement of any defective goods during the warranty period, the warranty for the rectified/replaced goods shall be up to the completion of the original warranty period of the main equipment.

15.8 If the supplier, having been notified, fails to respond to take action to repair or replace the defect(s) within 8 hours on a 24(hrs) X 7 (days) X 365 (days) basis, the purchaser/buyer may proceed to take such remedial action(s) as deemed fit by the purchaser/buyer, at the risk and expense of the supplier and without prejudice to other contractual rights and remedies, which the purchaser/buyer may have against the supplier.

15.9 During Warranty and CAMC period, the supplier is required to visit at each consignee's site at least once in 3 months commencing from the date of the installation for preventive maintenance of the goods.

15.10 The Purchaser/Consignee reserve the rights to enter into Comprehensive Annual Maintenance Contract between the Purchaser/buyer and the Supplier for the period as mentioned in Bidding Document after the completion of warranty period.

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

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

16. Assignment

16.1 The Supplier shall not assign, either in whole or in part, its contractual duties, responsibilities and obligations to perform the contract, except with the Purchaser's prior written permission.

17. Sub Contracts

17.1 The Supplier shall notify the Purchaser/buyer in writing of all sub contracts awarded under the contract, if not already specified in its bid. Such notification, in its original bid or later, shall not relieve the Supplier from any of its liability or obligation under the terms and conditions of the contract.

17.2 Sub contract shall be only for bought out items and sub-assemblies.

18. Modification of Contract

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

a) Specifications, drawings, designs etc. where goods to be supplied under the contract are to be specially manufactured for the purchaser/buyer,
b) Mode of packing,
c) Incidental services to be provided by the supplier
d) Mode of dispatch,
e) Place of delivery, and
f) Any other area(s) of the contract, as felt necessary by the purchaser/buyer depending on the merits of the case.

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

Purchaser/buyer within twenty-one days from the date of the supplier's receipt of the Purchaser/buyer's amendment/modification of the contract.

19. Prices

19.1 Prices to be charged by the supplier for supply of goods and provision of services in terms of the contract shall not vary from the corresponding prices quoted by the supplier in its bid and incorporated in the contract except for any price adjustment authorized.

20. Taxes and Duties

20.1 Supplier shall be entirely responsible for GST incurred until delivery of the contracted goods to the purchaser/buyer.

21. Terms and Mode of Payment

21.1 Payment Terms

Payment shall be made through electronic transfer in NEFT/RTGS subject to recoveries, if any, by way of liquidated damages or any other charges as per terms & conditions of contract in the following manner:

A) Payment for Indigenous Goods (M&E).
Payment shall be made in Indian Rupees as specified in the contract in the following manner:

a) **On delivery**: 75% payment of the contract price shall be paid on receipt of goods in good condition and upon the submission of the following documents:
i) Original copies of supplier's invoice showing contract number, goods description, quantity, packing list, unit price and total amount;
(ii) Consignee Receipt Certificate as per Section XVI of bidding document in original issued by the authorized representative of the consignee;
(ii) Two copies of packing list identifying contents of each package;
(iv)Inspection certificate issued by the nominated Inspection agency, if any.

(v) Insurance Certificate as per GCC Clause 11

(vi)Certificate of origin.

b) **On Acceptance**: Balance 25% payment would be made against "Consignee Acceptance Certificate" of goods to be issued by the End User subject to recoveries, if any, either on account of non-rectification of defects/deficiencies not attended by the Supplier or otherwise.

NOTE: ***Invoice should be raised in favour of AIIMS with GSTIN of consignee only. Subsequent to delivery and acceptance of the goods, the bills to be forwarded to HITES, Noida for its payment.***

B) Payment of Civil/Electrical Works at site: The payment related to Civil/Electrical Works at site will be made as indicated in the contract and shall not be subject to further escalation/exchange variation. The payment for

Civil/Electrical works shall be made on submission of "Consignee Acceptance Certificate" by the End User.

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

22. Delivery

22.1 The supplier shall deliver the goods and perform the services under the contract within the time schedule specified by the Purchaser/buyer in the List of Requirements and as incorporated in the contract. The time for and the date of delivery of the goods stipulated in the schedule shall be deemed to be of the essence of the contract and the delivery must be completed no later than the date(s) as specified in the contract.

22.2 Subject to the provisions, any unexcused delay by the supplier in maintaining its contractual obligations towards delivery of goods and performance of services shall render the supplier liable to any or all of the following sanctions:

(i) Imposition of liquidated damages,
(ii) Forfeiture of its Performance Security and
(iii) Termination of the Contract for default.

22.3 If at any time during the currency of the contract, the supplier encounters conditions hindering timely delivery of the goods and performance of services, the supplier shall promptly inform the Purchaser/buyer in writing about the same and its likely duration and make a request to the Purchaser/buyer for extension of the delivery schedule accordingly. On receiving the supplier's communication, the Purchaser/buyer shall examine the situation as soon as possible and, at its discretion, may agree to extend the delivery schedule, with or without liquidated damages for completion of supplier's contractual obligations by issuing an amendment to the contract.

22.4 When the period of delivery is extended due to unexcused delay by the supplier, the amendment letter extending the delivery period shall, interalia contain the following conditions:

(a) The Purchaser/buyer shall recover from the supplier, Liquidated Damages on the goods and services, which the Supplier has failed to deliver within the delivery period stipulated in the contract.

(b) That no increase in price on account of any ground, whatsoever, including any stipulation in the contract for increase in price on any other ground and, also including statutory increase in or fresh imposition of GST levied in respect of the goods and services specified in the contract, which takes place after the date of delivery stipulated in the contract shall be admissible on such of the said goods and services as are delivered and performed after the date of the delivery stipulated in the contract.

(c) But nevertheless, the Purchaser/buyer shall be entitled to the benefit of any decrease in price on account of reduction in or remission of customs duty and GST which takes place after the expiry of the date of delivery stipulated in the contract.

22.5 The supplier shall not dispatch the goods after expiry of the delivery period. The supplier is required to apply to the Purchaser/buyer for extension of delivery period and obtain the same before dispatch. In case the supplier dispatches the goods without obtaining an extension, it would be doing so at its own risk and no claim for payment for such supply and/or any other expense related to such supply shall lie against the purchaser/buyer.

22.6 Passing of Property

22.6.1 The property in the goods shall not pass to the purchaser/buyer unless and until the goods have been delivered to the consignee in accordance with the contract.

22.6.2 Where there is a contract for sale of specific goods and the supplier is bound to do something to the goods for the purpose of putting them into a deliverable state the property does not pass until such thing is done.

22.6.3 Unless otherwise agreed, the goods remain at the supplier's risk until the property therein is transferred to the purchaser/buyer.

23. Liquidated Damages

23.1 Subject to clause of Force Majeure, if the supplier fails to deliver or install/commission any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/buyer shall, without prejudice to other rights and remedies available to the Purchaser/buyer under the contract, deduct from the contract price, as liquidated damages, a sum equivalent to 0.5% per week of delay or part thereof on delayed supply of goods, installation, commissioning and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/buyer may consider termination of the contract.

Since the 10% damages are in virtue of non-performance of services, it will attract GST or any other applicable taxes which in turn shall be deducted from the Supplier.

24. Termination for Default

24.1 The Purchaser/buyer without prejudice to any other contractual rights and remedies available to it the Purchaser/buyer, may, by written notice of default sent to the supplier, terminate the contract in whole or in part, if the supplier fails to deliver any or all of the goods or fails to perform any other contractual obligation(s) within the time period specified in the contract, or within any extension thereof granted by the Purchaser/buyer pursuant to GCC sub-clauses 22.3 and 22.4.

24.2 The Performance Security in such cases will be forfeited.

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

25. Termination for Insolvency

25.1 If the supplier becomes bankrupt or otherwise insolvent, the purchaser/buyer reserves the right to terminate the contract at any time, by serving written notice to the supplier without any compensation, whatsoever, to the supplier, subject to further condition that such termination will not prejudice or affect the rights and remedies which have accrued and / or will accrue thereafter to the Purchaser/buyer.

26. Force Majeure

26.1 Notwithstanding the provisions contained in GCC clauses 22, 23 and 24, the supplier shall not be liable for imposition of any such sanction so long the delay and/or failure of the supplier in fulfilling its obligations under the contract is the result of an event of Force Majeure.

26.2 For purposes of this clause, Force Majeure means an event beyond the control of the supplier and not involving the supplier's fault or negligence and which is not foreseeable and not brought about at the instance of the party claiming to be affected by such event and which has caused the non – performance or delay in performance. Such events may include, but are not restricted to, wars or revolutions, hostility, acts of public enemy, civil commotion, sabotage, fires, floods, explosions, epidemics, quarantine restrictions, strikes excluding by its employees, lockouts excluding by its management and freight embargoes.

26.3 If a Force Majeure situation arises, the supplier shall promptly notify the Purchaser/buyer in writing of such conditions and the cause thereof within twenty one days of occurrence of such event. Unless otherwise directed by the Purchaser/buyer in writing, the supplier shall continue to perform its obligations under the contract as far as reasonably practical, and shall seek all reasonable alternative means for performance not prevented by the Force Majeure event.

26.4 If the performance in whole or in part or any obligation under this contract is prevented or delayed by any reason of Force Majeure for a period exceeding sixty days, either party may at its option terminate the contract without any financial repercussion on either side.

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

27. Termination for Convenience

27.1 The Purchaser/buyer reserves the right to terminate the contract, in whole or in part for its Purchaser's convenience, by serving written notice on the supplier at any time during the currency of the contract. The notice shall specify that the termination is for the convenience of the Purchaser/buyer. The notice shall also indicate interalia, the extent to which the supplier's performance under the contract is terminated, and the date with effect from which such termination will become effective.

27.2 The goods and services which are complete and ready in terms of the contract for delivery and performance within thirty days after the supplier's receipt of the notice of termination shall be accepted by the Purchaser/buyer following the contract terms, conditions and prices. For the remaining goods and services, the Purchaser/buyer may decide:

a) To get any portion of the balance completed and delivered at the contract terms, conditions and prices; and / or
b) To cancel the remaining portion of the goods and services and compensate the supplier by paying an agreed amount for the cost incurred by the supplier towards the remaining portion of the goods and services.

28. Governing Language

28.1 The contract shall be written in English language. All correspondence and other documents pertaining to the contract, which the parties exchange, shall also be written accordingly in that language.

29. Notices

29.1 Notice, if any, relating to the contract given by one party to the other, shall be sent in writing or by Facsimile/email and confirmed in writing. The procedure will also provide the sender of the notice, the proof of receipt of the notice by the receiver. The addresses of the parties for exchanging such notices will be the addresses as incorporated in the contract.

29.2 The effective date of a notice shall be either the date when delivered to the recipient or the effective date specifically mentioned in the notice, whichever is later.

30. Resolution of Disputes

30.1 If dispute or difference of any kind shall arise between the Purchaser/buyer and the supplier in connection with or relating to the contract, the parties shall make every effort to resolve the same amicably by mutual consultations.

30.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, unless otherwise provided in the SCC, either the Purchaser/buyer or the supplier may give notice to the other party of its intention to commence arbitration, as hereinafter provided the applicable arbitration procedure will be as per the Arbitration and Conciliation Act, 1996 of India.

30.3 In the case of a dispute or difference arising between the Purchaser/buyer and a domestic Supplier relating to any matter arising out of or connected with the contract, such dispute or difference shall be referred to the sole arbitration to be appointed by the Director, AIIMS. The award of the arbitrator shall be final and binding on the parties to the contract subject to the provision that the Arbitrator shall give reasoned award in case the value of claim in reference exceeds Rupees One lakh (Rs. 1,00,000/-).

30.4 **Venue of Arbitration:** The venue of arbitration shall be the place from where the contract has been issued, i.e., New Delhi, India.

30.5 **Jurisdiction of the court** will be from the place where the Bidding Document has been issued, i.e., New Delhi, India.

31. Applicable Law

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

32 Withholding and Lien in respect of sums claimed

32.1 Whenever any claim for payment arises under the contract against the supplier the purchaser/buyer shall be entitled to withhold and also have a lien to retain such sum from the security deposit or sum of money arising out of under any other contract made by the supplier with the purchaser/buyer, pending finalization or adjudication of any such claim.

32.2 It is an agreed term of the contract that the sum of money so withheld or retained under the lien referred to above, by the purchaser/buyer, will be kept withheld or retained till the claim arising about of or under the contract is determined by the Arbitrator or by the competent court as the case may be and the supplier will have no claim for interest or damages whatsoever on any account in respect of such withholding or retention.

33. Fall Clause

Fall clause is a price safety mechanism. The fall clause provides that if the contract holder reduces its price or sells or even offers to sell the contracted goods of identical specification and terms & conditions to that of the contract, at a price lower than the contract price, to any person or organization during the currency of the Contract, the Contract price will be automatically reduced with effect from that date for all the subsequent supplies under the Contract and the contract amended accordingly.

SECTION – V

SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) will apply for this purchase. The corresponding clauses of General Conditions of Contract (GCC) relating to the SCC stipulations have also been incorporated below.

These Special Conditions will modify/substitute/supplement the corresponding (GCC) clauses.

Added Para:

1. Performance Security

1.1 Following are the details for submission of necessary SFMS from BG issuing Bank in case the Performance Security is submitted in form of Bank Guarantee (BG):

Name of Beneficiary:	**The Director –AIIMS, New Delhi**
Bank Name & address:	**State Bank of India, Ansari Nagar, New Delhi**
IFSC Code:	**SBIN0001536**

Whenever there is any conflict between the provision in the GCC and that in the SCC, the provision contained in the SCC shall prevail.

SECTION- VI

LIST OF REQUIREMENTS

Part I:

Sl. no.	Tender ID	Short Description of goods	Quantity	Warranty Period	CAMC period after warranty
1	2023_HLL_150830_1	Establishment of Physiotherapy Lab	1 Set	5 years	5 years

Part I: Required Delivery Schedule:

Supply, Installation, Commissioning, Testing & Acceptance to be completed within 90 days from the date of approval of Layout Drawing or from date of handing over the site for installation, whichever is later.

(In case of LC opening, necessary documents like valid Performance Security and Proforma Invoice are to be submitted within 30 days from the date of release of NOA. In case layout drawing approval is applicable, it should be submitted by the supplier within 21 days from the date of release of NOA.)

For delayed Layout Drawing submission, Performance Security submission, delivery, installation, commissioning and acceptance liquidated damages will get applied as per tender conditions.

Required Terms of Delivery and Destination: Free Delivery at Consignee's Site(s)

Part II: Scope of Incidental Services:

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

Part III: Turnkey Work (if any) as per details in Technical Specification.

Part IV: Warranty period will start from the date of installation, commissioning and acceptance.

Comprehensive Annual Maintenance Contract (CAMC) will start from the date of successful completion of warranty period.

Part V: Required Terms of Delivery and Destination.

Free Delivery at Consignee Site

The Consignee details are as under but the supplier is required to deliver the goods at the designated site in the floor and building of concerned Departments:

The Director,
National Cancer Institute – AIIMS (Jhajjar Campus)
Badsha Village
Jhajjar, Haryana

SECTION - VII

TECHNICAL SPECIFICATION AND GENERAL POINTS

A. TECHNICAL SPECIFICATION:

(Tender ID: 2023_HLL_150830_1)

Establishment of Physiotherapy Lab

SUPPLY, INSTALLATION, TESTING & COMMISSIONING OF PHYSIOTHERAPY EQUIPMENT ON TURNKEY BASIS

Scope of Work

1. Proposal is for Plan, Design, Supply, Install, commission, maintenance of physiotherapy lab equipment on Turnkey Basis for 10 years.
2. Bidders are strongly advised to visit the site and carry out the assessment of works. All demolition, construction, & site modification shall be the sole responsibility of the bidder.
3. ANNEXURE -1 is the list of BOQ items for various areas of Physiotherapy Lab.
4. All machinery/equipment and furniture etc paid for by NCI-AIIMS under CAPEX shall be the property of NCI-AIIMS from the date of issue of LC/CRC.
5. The items like General Furnitures and other accessories where if technical specification is not provided, should be of reputed makes and of good quality.
6. Proper signage have to be displayed in various sections of the Physiothery lab and have to be aligned with the existing colour coding of signages for NCI-AIIMS. Sinages are to be in line with the institute.
7. CCTV should be provided with sufficient recording of at least 15 days.
8. LAN caballing including sockets, provision for telephone connectivity should be provided by the bidder.

L1 Ranking & Payment:-

1. NCI-AIIMS shall pay upfront CAPEX cost for infrastructure work, installation and commissioning of supplied items by the bidder. CAPEX shall be inclusive of cost of turnkey works, equipment cost in Physiotherapy Lab, warranty and maintenance for first 5 years for all the equipment, any furniture provided by bidder.
2. The CAMC price from 6th to 10th year must be quoted separately.
3. L1 calculation will be based on the total cost of CAPEX (Annexure -1) + Cost of CAMC (in NPV) from 6th to 10th year.

Turnkey & Civil work

1. Bidder has to do all required turnkey for successful installation of physiotherapy lab, institute will provide shell structure of approx. 7000 sq feet with one point electrical, water & drain supply, rest all bidder has to do from

planning, designing, supply, installation and commissioning of all equipment on turnkey basis.

2. Bidders are strongly advised to visit the site and carry out the assessment of works. Only those vendors who offer the entire range of state of the art equipment comprehensively as a package deal will be considered.
3. Bidder has to submit the layout design proposed with material used for construction/civil works to NCI –AIIMS for approval, Bidder can start the execution of civil works after getting approval from NCI-AIIMS.
4. Civil works includes construction of brick wall, plastering, painting, ceiling, false ceiling etc required as per the approved lay out plan, laying of tiles on walls & floors, provision of doors & windows as per approved lay out plan. Levelling of floor (if required) before lying of suitable anti-slippery floor and strengthening of floor should be bidder's responsibility (if required). All floors and walls in processing areas must be smooth, impervious to fluids and easily cleaned. All material used have to be approved by NCI-AIIMS.
5. Any other necessary work not mentioned in BOQ/technical specifications/turnkey but required for successful completion of Installation, Commissioning, and maintenance of Physiotherapy lab should be carried out by the bidder and no extra payment will be made for that.
6. Suitable AHU has to be provided by vendor.

Electrical works

1. All electrical work required for commissioning and installation of equipment like cable wire, electrical outlets, switches, cable trenches, trays, railings, etc. should be fire proof, of reputed make, certified for electrical safety. All remaining work has to be done by the bidder including Electrical Isolators, MCBs, Electrical boards, phase changer (if required) Switches, Sockets and any other thing which are required for smooth running of Physiotherapy lab equipment.
2. Institute will provide one point electrical supply at Physiotherapy Lab and further distribution within the physiotherapy lab area will be responsibility of bidder as per approved layout.
3. Bidder has to provide suitable capacity online UPS to cater various equipment installed within the Physiotherapy lab area.

Ventilation & Lighting

1. Provision of 2ftx2ft LED lights to provide illumination of 500 lux in all areas. LED lights to be flush mounted to the false ceiling.
2. There has to provision for ventilation in case of power failure/HVAC failure etc.

Plumbing Works

1. Institute will provide one point water& drain supply and further distribution will be responsibility of bidder as per approved layout.
2. All plumbing work associated with proper functioning of Equipment has to be carried out by the vendor. Drains are special open drains with removable

covers having large discharge capacity for spontaneous discharge of water. Proper Lint Trap and Hair trap should be in the drain line.

3. Safe disposal of solid & liquid waste generated during the process of the work will be the responsibility of the bidder and ambient temperature should be maintained by the vendor.
4. Any other plumbing works associated with proper functioning of Physiotherapy Lab has to be carried out by the bidder. In case sump is required the same has to be provided by vendor.

Fire Fighting

1. Fire safety: Fire safety equipment will be installed as per the norms and requirements of the fire department and keeping in mind the norms and specifications of the different zoning areas of the Physiotherapy lab.
2. Fire detection and alarm system with conventional optical type smoke detectors, RIs/ MCP, fire control panel and its wiring with copper conductor FRLS wire shall be provided as per CPWD specifications.
3. Make of smoke detectors as approved will be Apollo/ Edward/ Seimens/ Honeywell.
4. Make of RI, Hooters, MCP, Fire control panel will be of Agni/ Safex/ Minimax.
5. Fire fighting system will be installed comprising of Hose reels, fire hydrants, landing valve, hose pipes, branch pipe, nozzles, valves as per CPWD specifications. The hosing and internal pipeline needs to be laid down by the vendor. However the water connection will be provided by the institute.
6. Automatic sprinkler system with adequate size of pressurization pump with pressure gauge, flow switch, annunciation panel etc shall be installed by the vendor, as per CPWD specifications.
7. Vendor will provide adequate fire extinguishers of required type. (According to Fire safety rules).

Manpower Requirement for Physiotherapy Lab

1. The vendor will ensure physical presence of required number of Engineer at the Physiotherapy Lab NCI-AIIMS from 9 am to 5 pm on all working days of the institute for the following activities:-
    a. Routine trouble shooting in any of the installed equipment provided by the bidder.
    b. Maintenance and ensure smooth functioning of the equipment
    c. Technical assistance to the operator and staff on day to day basis
    d. Demonstration and training to the staff
    e. Any other day to day activity linked to proper functioning of Physiotherapy Lab
2. Bidder should provide manpower to conduct above mentioned task for 03 year starting from the date of commissioning of equipment.
3. Medical examination of staff: The bidder shall employ only those persons in the lab who are found to be medically fit. Hospital reserves its rights to examine any of the employees for medical fitness without prior notice. Expenses, if any

incurred by the NCI-AIIMS on medical examination of such employees, shall be borne and paid by the bidder.

4. Wages and insurance: The vendor shall comply with the laws applicable to staff engaged for maintenance & operations of Pathology regarding working hours, minimum wages, safety, cleanliness, leave, over time allowances, provident fund, retrenchment benefit, and medical benefit like ESI etc.
5. NCI-AIIMS management has no liability for the manpower deployed by the vendor, their health and safety, etc. Bidder will provide uniforms and other protective gear to ensure proper protection to all workers.
6. NCI AIIMS shall not provide any boarding/ lodging and transporting facilities to the staff deputed by the vendor permanently or temporarily.
7. The bidder shall factor in the minimum wages and other statutory labour laws as applicable in the State of Haryana.
8. The attendance of the manpower will be submitted to NCI-AIIMS.
9. Penalty: if any written complaint is received from user department regarding unsatisfactory performance of manpower or unavailability of the same Rs 1000/ instance shall be penalised if the complaint is found to be correct by the competent authority/ office incharge of NCI-AIIMS.

Annexure I List of items

Sl. No.	Name of the Equipment	Qty	Manufacturer Authorisation Non-Exclusive/ Not Required
1	Interferential Therapy	2	Non-exclusive
2	Cryo-ultrasound unit	1	Non-exclusive
3	4 channel heat therapy, vibration and magnetism	1	Non-exclusive
4	Cervical and lumber traction with height adjustable traction bed	1	Non-exclusive
5	Active passive trainer (device for bed patient in lying)	2	Non-exclusive
6	Movement therapy system for lower & upper limb	1	Non-exclusive
7	Cross walker	2	Non-exclusive
8	Computerised hand exercise & evaluation system with visual bio-feedback	1	Non-exclusive
9	High energy palliative inductive therapy unit	1	Non-exclusive
10	Computerised isolated joint measurement and training system (isokinetic system)	1	Non-exclusive
11	Gait and Motion analysis lab	1	Non-exclusive
12	Manipulation couch	10	Non-exclusive
13	Advanced scanning laser therapy unit	1	Not Required

Sl. No.	Name of the Equipment	Qty	Manufacturer Authorisation Non-Exclusive/ Not Required
14	Probe laser therapy unit	1	Not Required
15	Cryo therapy unit	1	Not Required
16	Microwave diathermy with traction	1	Not Required
17	Recumbent total body stepper	1	Not Required
18	Computerized parallel bar with convertible stair case	1	Non-exclusive
19	Microwave diathermy	1	Not Required
20	Portable tens (wireless)	4	Not Required
21	Shoulder wheel wall mounting	1	Not Required
22	Combination therapy unit (electrotherapy, ultrasound with vacuum)	3	Non-exclusive
23	Hydrocollator unit	1	Not Required
24	Wall bar	1	Not Required
25	Upper extremity cpm (shoulder elbow and wrist cpm)	1	Non-exclusive
26	Lower extremity cpm (knee, hip & ankle)	1	Not Required
27	Pronation supination exerciser	1	Not Required
28	Wrist rotator exerciser	1	Not Required
29	Computerized balance system	1	Non-exclusive
30	Postural training mirror	3	Not Required
31	Treadmill (for rehabilitation purpose)	2	Non-exclusive
32	Vital stimulation for dysphagia	3	Non-exclusive
33	Contrast compression therapy system	1	Not Required
34	Vacum therapy unit (with electro therapy)	1	Not Required
35	Portable interferential therapy (ift)	2	Not Required
36	Functional medical training exercise therapy units	1	Non-exclusive
37	Virtual reality sysstem	1	Non-exclusive
38	Spinal decompression	2	Non-exclusive
39	Bobath couch	2	Non-exclusive
40	Shock wave therapy unit	1	Not Required
41	Biofeedback for urinary problems with pelvic floor trainer	2	Non-exclusive
42	Muscle stimulator	2	Not Required
43	Functional electrical stimulation	3	Not Required
44	Dual frequency ultrasound therapy unit	2	Not Required
45	Hydrotherapy treadmill unit	1	Non-exclusive
46	Perineometer	2	Not Required
47	Vagina pump fit	2	Not Required
48	Vaginal dialators	20	Non-exclusive
49	Pelvic floor 360	4	Not Required
50	Weighted vaginal ball (all sizes)	5	Not Required
51	Iastm tool	3	Not Required
52	Motorised tilt table	2	Not Required

Sl. No.	Name of the Equipment	Qty	Manufacturer Authorisation Non-Exclusive/ Not Required
53	Peripheral nerve stimulator	2	Not Required
54	Matrix therapy system	1	Non-exclusive
55	Cognitive rehab unit	1	Non-exclusive
56	Pneumatic Compression Therapy	4	Not Required
57	Civil work/ Turnkey scope of work	1	

Important Note:

(i) Non-Exclusive MAF (Manufacturer Authorisation Form) format have been provide in 'SECTION – XIII' and is mandatory to be submitted in technical bid by participating bidders.

(ii) MAF is not required for items wherein it is mentioned as **Not Required**

Item no. 1

Interferential Therapy

Sl. No	Technical Specification
1	55 pre-programme condition wise with products
2	Cable and electrodes checking mode
3	User settable memory
4	Light weight and compact design
5	Easy to operate
6	Future upgrade without change in hardware
7	DSP based circuitry outputs are in 100 % accuracy
8	Large graphic LCD display
9	Advanced patient safety system
10	Carrier frequency – 2000 Hz / 4000 Hz
11	Base frequency – 0-150 Hz (1 Hz step)
12	Sweep frequency – 0-150 Hz (1 Hz step)
13	Sweep Modulation
14	Programs – 1 /1S, 1/5, 1/5S, 6/6S
15	Therapy Modes – Four pole Interferential, Four pole Vector 90°, Four pole Vector 45°, Two pole pre-modulated
16	Output current – 0 – 100 mA
17	Timer – 0 – 60 mins
18	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 2

Cryo-ultrasound unit

Sl. No	Technical Specification
1	The system must have combination of Cryotherapy and Ultrasound therapy simultaneously for analgesic, Scar management and anti-inflammatory action through heavy duty clinical model.
2	The ultrasound and cryotherapy unit should power on at same time for combination therapy.
3	The system should be usable and operate both ultrasound and cryotherapy at same time in same treatment area.
4	The system should have option to perform hot & cold therapy, Cold & hot therapy in one device.
5	The system should be able to determine a quicker recovery due to the interruption of the pain-spasm-inactivity cycle.
6	The cooling process of the system should in a very short time (below 5 minutes) help of the Volume Expansion System.
7	The unit must have pre-feeded range of therapeutic protocols set for various pathologies.
8	The system should have option of minimum Temperature control between 1°c to 45°c or more.
9	The system should have maximum cryotherapy output at least -10° C to -15° C
10	The system should have Ultrasound Output Power (1- 3 Watt/cm2 more)
11	The system should have Working Frequency at least 1 MHz ± 5%
12	The system should have Transducer: Ceramic Piezoelectric.
13	The system should have safety class- 1type BF
14	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 3

4 channel heat therapy, vibration and magnetism

Sl. No	Technical Specification
1	Large 7” Colorful Touch Screen Display
2	Continuous and Pulsed Modes
3	Easy to Use: User Friendly Interface
4	Integrated Serial Controller
5	Inbuilt Heavy Duty Microprocessor
6	10 pre-set Clinical Protocols
7	200 User Protocol with Patients’ Name
8	Dual Protection System to Guarantee Extended Device’s Life
9	Power Emitted - Continuous and Pulsation
10	Timer - 0 - 99 min.
11	Temperature - 6 steps (43°, 46°, 49°, 52°, 55°, 59°C)
12	Mode Supported - 4 Channels
13	Power - 200 - 240 V AC, 50/60 Hz

14	Insulation/risk group - 1 BF – II B
15	Liquid Protection Level - IPXO
16	Dimensions - 310 (L) × 305 (W) × 170 (H) mm
17	Weight - 7 kg Approx.
18	Main Input - 190V - 240V 50 Hz
19	Consumption - 2Amps (220 VAC)

Item no. 4

Cervical and lumber traction with height adjustable traction bed

Sl. No	Technical Specification
1	Microprocessor-controlled traction device suitable for continuous, intermittent, sequence cervical and lumbar therapy.
2	The unit should have color touch screen displays atleast 5-6” for easy setting of therapy parameters.
3	It should be provided with imported three section traction couches with electrically adjustable height of 70cm and gas-spring head section adjustment (+50°/-45°).
4	**Traction device should have the following features:**
4.1	User-friendly multi-colour touch interface of at least 5”
4.2	Traction modes like Continuous, intermittent and traction programs with warmup and cool down phases
4.3	Warmup phase should have different modes like linear, staircase, triangular or rectangular mode to choose from.
4.4	Cool down phase should have different modes like linear staircase or triangular modes to choose from.
4.5	User-defined hold, rest and treatment times
4.6	Hold (Pull) and Rest (Release) forces should be controlled independently.
4.7	Should have provision for scales reading in either kilograms or pounds.
4.8	Should have built-in pre programs to address indications like
	— acute and chronic back pain
	— joint blockage
	— slipped disc
	— degenerative spine disorders
4.9	Should have at least 100 memory spaces for user-programmed protocol
4.1	Should have facility for quick protocols to address general indications
4.11	Should have facility to lock the device by using password to prevent unauthorized usage.
4.12	Device should display the remaining time on screen during entire therapy.
4.13	Screen-displays for actual tension of the cord.
4.14	Intermittent and progressive settings.
4.15	The unit should be equipped with a variable speed motor to enables the therapist to have an speed adjustment in the Pull and Release modes
4.16	Real-time treatment tracking by animated screen and the device keeps information about the applied therapy type, remaining therapy time and main

	therapy parameters on the screen
4.17	Built-in safety features
	– patient interrupt switch
	– audible signal at the end of the treatment
	– audible signal if the patient interrupt switch is activated
4.18	Ergonomic design
5	**Technical parameters and accessories for traction device**
5.1	Therapy : continuous, intermittent
5.2	Traction force : 0–90 kg
5.3	Force time/ Rest time : 0–99 s
5.4	(intermittent therapy)
5.5	Treatment time : 0–60 min or more
5.6	Mains supply : 100-240V 50Hz/60Hz 1,3A@ 100VAC/0,6A@240VAC
5.7	Dimensions W × H × D : 320 x 200 x 350 mm (12.5 x 8 x 14 in) +/- 15 %
5.8	Weight : approx.15 kg
5.9	Traction force compensation : automatic compensation
5.1	Traction speed :Relative 10%–100% (100% corresponds to 12 kg/s)
5.11	Continuous traction/release time: 00~60 seconds, by static traction force "--" selection.
5.12	Safety system :Multiple protection alarms / on screen error display for– SERVICE/OVERLOAD/REMOTE
5.13	Patient Rope length : 1300mm
5.14	Patient switch cable length : 3000mm
5.15	Power supply : 220V/240V (selectable power supply with switch) 50/60Hz
5.16	Standard accessories : Patient interrupt switch, cervical belt with spreader bar
6	**Main Features for 3 Section Traction couch:**
6.1	Traction couch, 3 sections, electrically adjustable height, horizontally movable leg part and mounting for traction unit
6.2	3-section traction couch
6.3	Electric height adjustment (42-95cm)
6.4	Gas-spring head section adjustment
6.5	Standard width: 70cm
6.6	Hand switch
6.7	Horizontally movable foot section - 15cm
6.8	Retractable castors
6.9	Mounting for traction unit
6.1	Functional design providing great degree of safety and comfort
6.11	Specially designed for medical use
6.12	Flexible in application
6.13	Durable in construction
6.14	Superior stability
6.15	Heavy duty motor/s with silent operation
6.16	Non-flammable and easy-to-clean upholstery materials
6.17	Easy maintenance
6.18	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 5

Active passive trainer (device for bed patient in lying)

Sl. No	Technical Specification
1	The unit should have the facility for Lower limb and upper limb exercise for the bed patients.
2	The unit should have training analysis and performance analysis with muscle tone.
3	The unit should Display current date and time, performance ,energy, no of spasm and watts
4	The unit should have on off facility of spasm detection.
5	The unit should have movement protector and spasm control
6	The unit can be fitted with ground level to any type of patient bed with locking facility.
7	The unit should have facility to adjust in distance toward the patient with remote stop button.
8	The unit should be useful for cardiovascular, stroke, neuro and ICU patients.
9	Should have safety foot shells for feet and leg guides with calf shells to secure support for the legs.
10	Electronic leg insertion aid to aid helps to insert and remove the legs with LCD display.
11	Range of motor power in steps: up to 10 N
12	Velocity range: 0-60 rpm
13	Therapy time from 0 to 120 minutes.
14	The unit should have got servo cycling mode
15	The unit should have symmetry training in a clear 2-bar- diagram and analysis in percentage.
16	The unit should have minimum 13 therapy programs with edit function.
17	The unit should have got gear shift control in the range of 1-20 steps
18	The unit should be compatible with functional electrical stimulator
19	The unit should display the current date and time on the LCD monitor
20	The unit should have active/passive biofeedback , screen adjust automatically
21	The unit should be supplied with hand grips with quick release system, chassis with ground fixation, knee bending adjustment with crank handle, hydraulic adjustment, safety foot shells, handles, rotator panel with big color screen display.
22	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 6

Movement therapy system for lower & upper limb

Sl. No	Technical Specification
1	The unit should have the facility for Lower limb and upper limb exercise in supine position.
2	The unit should show training analysis and performance analysis with muscle tone.
3	The unit should display current date and time, performance, energy, no of spasm and watts and also peddling direction and if handgrips or leg rest is installed)
4	Automatic detection of the handles or footrests
5	The unit should have on/off facility for spasm detection also the sensitivity of the spam detection can be adjusted.
6	The unit should have movement protector and spasm control facility.
7	The unit should be able to fit to any type of patient bed with locking facility. The device can be placed above the bed so that escape routes are not blocked
8	The unit should have facility to adjust distance horizontally towards thepatient.
9	Should have safety foot shells for feet and leg guides with calf shells to secure support for thelegs.
10	Electronic leg Insertion aid to help for inserting and removing the legs with LCD display.
11	Range of motor power in steps :upto10N.
12	Speed range inpassive mode: 1-60 rpm or more
13	Therapy time from 1 to 120 minutes.
14	The unit should have wireless software operating panel to save thetrainingdata.
15	The unitshould have servo cycling 3 modes i.e.active/passive/assistive
16	The unit should have symmetry training in a clear 2 bar diagram and analysisinpercentage.
17	The unit should have gear shift control in the range of 1-20steps.
18	The unit should have active/passive biofeedback parameters on display should change automatically to provide current information to the user.
19	The unit should be supplied with hand grips with quick release system, chassis with ground fixation, knee bending adjustment with crank handle, hydraulic adjustment safety foot shells, handles, rotator panel with colour screen display.
20	The unit should have international safety standards of European CE /US FDA or BIS.
21	Patient weight up to 120kg
22	brushless motor for smooth movements with up to 300 watts of motor power
23	Electric height adjustment
24	Tool free 2 step radius adjustment
25	Padded leg support
26	Covered crank for improved patient safety
27	Stable stand above the bed to keep escape routes clear
28	Closed surface for easy and quick cleaning and disinfection
29	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 7

Cross walker

Sl. No	Technical Specification
1	Smart-card technology
2	Braking principle: Process-controlled eddy-current brake
3	Heart rate monitoring: Pulse monitoring, standard with and built – in wireless Polar receiver.
4	Exercise modes: :Constant torque
5	Constant power
6	Constant heart rate
7	Parameter displayed :Time, heart rate, speed, distance, work, power, resistance and RPM
8	Uniformity in operation with clear visible display.
9	Dimension: 190 x 55 x 177 +/- 15%
10	Max patient weight : Approx 150 kg
11	Safety Standard: USFDA/BIS/ISO13485/CE

Item no. 8

Computerised hand exercise & evaluation system with visual bio-feedback

Sl. No	Technical Specification
1	**PC Interface unit:-**
1.1	The System should have single computer interface unit for all the modules such as Hand kit, Upper limb exerciser, Myo-Exerciser, Angle exerciser, Force plates, electronic goniometer, etc., for easy upgrade.
1.2	All the modules should have the PC interface and Visual Bio-feedback with more than 10-15 activities.
1.3	Connection to the PC should be via USB or wireless mode.
2	**Software interface:-**
2.1	Software should generate statistical report for the activities performed and should have the option to create an individual profile for each patient. The final report should be able to save in a .PDF file or Word format as well as in a paper printout.
3	**Hand Kit:**
3.1	Should comprise of an electronic hand dynamometer and electronic pinch meter.
3.2	Both the hand dynamometer and pinch meter should have a PC interface and visual biofeedback for exercise and evaluation.
3.3	Hand dynamometer: Force range up to 90 KG max. load with the 0.1 KG
3.4	increments should be possible to measure in 5 level grip positions.
3.5	Pinch meter: Force range upto22 KG max. load with the 0.1 KG increments should be possible to measure in various pinch positions such as tip to tip, three jaw and key pinch positions.

Sl. No	Technical Specification
3.6	Both the hand dynamometer and pinch meter should provide the data of peak grip and sustained grip strengths.
3.7	Software should have an analysis option in it.
4	**Upper limb exerciser:-**
4.1	Upper limb exerciser should have the adjustable hydraulics-based resistance control and visual biofeedback.
4.2	It should have different attachment tools that provide wrist flexion/extension, radial/ulnar deviation, forearm pronation/supination, elbow flexion/extension, shoulder flexion/extension, abduction/adduction, and internal/external rotation.
4.3	Range of motion used for exercise should be able to set as little as 2-4 degrees.
5	**Myo exerciser and angle exerciser:-**
5.1	Both the Myo exerciser and angle exerciser should be with the PC interface and visual biofeedback.
5.2	Myo exerciser should be sensible even for 2-4 micro volts and the EMG sensor should be with the full scale range of 0 - 3000 micro volts.
5.3	Two types of EMG sensors should be provided. One should be an active dry bipolar reusable EMG sensor and the other EMG sensor should be with flying wires to use the disposable EMG electrodes.
5.4	Angular exerciser should be sensible even for 1 degree variation.
5.5	Two different types of angle exerciser should be provided for large and small joint training purpose.
6	**Electronic goniometry:-**
6.1	Electronic goniometry should be with the PC interface and the ROM data should be able to transfer to the PC for documentation purpose with the press of a button.
6.2	There should be two different goniometry for smaller and larger joints
6.3	Physical Demonstration of the quoted item is must for technical evaluation without which the bid will not be considered.
6.4	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 9

High energy palliative inductive therapy unit

Sl. No	Technical Specification
1	PEMF THERAPY DEVICE
2	PEMF has Clinical proven effects For
3	Reduced pain
4	Reduced inflammation
5	Increased range of motion
6	Faster functional recovery
7	Reduced muscle loss after surgery
8	Increased tensile strength in ligaments
9	Faster healing of skin wounds

10	Enhanced capillary formation
11	Accelerated nerve regeneration
12	Reduced tissue necrosis
	Technical Features:
13	Should provide High Energy Inductive Therapy with Magnetic Field Strength up to 3 Tesla adjustable in step of 1% for deep penetration up to 15cm into skin, muscle and bone as well.
14	Frequency should be adjustable up to 150 Hz
15	Should have 2 Channels output
16	Should have 8" or larger colour touch screen display for ease of operation.
17	Should have Inductive, Non-invasive, Non-Skin contact applicators of different sizes.
18	Should have large applicator for Static hands-free treatment easily positioned to all body areas with adjustable arm
19	Should have medium size applicator for dynamic treatment.
20	Should have at least 20 preset protocols covering all major indications
21	Should have free memory space for at least 20 entries to store favourites.
22	Should have free memory space for at least 20 entries to store own choice of treatment parameters.
23	Treatment time should be adjustable up to 60 minutes
24	Should have oil circulation cooling transducer system to ensure regular usage and avoiding over temperature.
25	Should meet international highest quality and safety standards in accordance with the EC Directive on Medical Devices 93/42/EWG.
26	Should have warranty period of minimum 1 year, irrespective of number of impulses.
27	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 10

Computerised isolated joint measurement and training system (isokinetic system)

Sl. No	Technical Specification
1	Should be able to access/test various joints in isolation
2	Should be able to test in different resistance modes such as isokinetic (concentric-concentric, concentric-eccentric, eccentric-concentric and eccentric-eccentric), isotonic, isometric and passive
3	Protocols should include options for angles, hold-times, rest period, repetitions and sets
4	The system should be able to test all the major body segments and joints such as shoulder, forearm, elbow, wrist, hip, knee and ankle.

5	Should have adjustable range of motion stops in full 360 degrees
6	Should have 360-degree rotation for the force arm (connecting dynamometer to the pedal) to have wide range of motion
7	Should be able to accommodate different athletes with varying height and weight with provision for seatbelt harness for better stability
8	The dynamometer or chair should be movable to accommodate different athletes for quick set-up and better usability with locking clamps for securing the system in place for testing
9	Should be able to do gravity correction when the limbs are positioned with the lever arm on the dynamometer
10	The software should be provided to analyse the raw data and export the raw and processed data in different file formats such as excel, text, etc.
11	The software should provide detailed report for various testing protocols such as individual test for joints, data/graph overlay for comparing pre and post testing, repeatability, progress, multi-session.
12	Should be provided with latest workstation / Laptop of reputed brand Like HP, Dell (with i7 (latest generation) processor, minimum 16GB RAM, windows OS and colour printer
13	Concentric speed: 500 deg/sec or more
14	Eccentric speed: 500 deg/sec or more
15	Concentric torque: 500 ft-lb (678 Nm) or more
16	Eccentric torque: 500 ft-lb (678 Nm) or more
17	Isometric torque: 500 ft-lb (678 Nm) or more
18	Isotonic torque: 500 ft-lb (678 Nm) or more
19	Isotonic torque as low as .5 ft-lb
20	**Feedback Formats:**
21	Roadway, Interactive Line, Interactive Path, Reaction Training, Proprioception Training, Breakout, and Pong . Torque vs. Time, Torque vs. Angle, Torque Bars, Work Bars, Power Bars.
22	It should be possible to use mechanical stops even with custom patterns (Important for safety in research)
23	The same attachment should be usable for left and right side of subject for consistencies in data.
24	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.
25	Hardware Requirement for Branded Laptop or PC
26	Operating System: 64-bit version of Windows 10 & MS Office 2013 or Higher
27	CPU Type: Core i3 or Higher
28	System RAM: 4GB or better
29	Hard Disc : 500 GB or Higher

Item no. 11

Gait and Motion analysis lab

Sl. No	Technical Specification
1	**Infrared Camera system to acquire Motion Analysis**
2	No. of IR cameras 12 (Twelve)
3	Should be expandable up to 16 digital cameras

4	Gigabit Ethernet communication
5	Type may be infrared cameras or CMOS cameras
6	Cameras should operate at 300Hz or more with full resolution
7	Camera resolution: Minimum 2048 x 2048 Pixel or higher
8	Maximum acquisition frequency upto 2000 fps
9	Accuracy < 0.1 mm on a volume of 6x6x3 m
10	Marker detection system.
11	Processing: On Camera
12	Camera Power: Directly supplied by the Data Station
13	Set of whole body markers, which should be upgradeable, and (reflective tapes for infrared system) as necessary.
14	System must be able to acquire complex movements in both indoor and outdoor conditions
15	System should be able to capture the marker trajectory (Unlimited number of markers)
16	System should be supplied with markers to capture both upper limb and lower limb bilaterally and 50 spare markers to be supplied along with the equipment.
17	System should be supplied with markers suitable for both paediatric as well as adult population
18	Should be integratable with other kinetic, kinematic and EMG data
19	Should be wall mountable and securable (to avoid in advertent calibration errors) or mountable on a light weight tripod. Eight (8) tripods must be provided for portability needs.
20	Necessary calibration apparatus.
21	System should be supplied with the evaluation of the spatial-temporal gait parameters with the following features: Sensor Typology: Tri-axial accelerometer, Tri-axial magnetometer, Tri-axial gyroscope. Connectivity: Bluetooth, Frequency: upto 200Hz,Battery: rechargeable via USB
22	**Video cameras:**
23	Digital video base system to support the movement analysis
24	Standalone- Four (4) digital color cameras with interchangeable lenses CS- Mount, acquisition frequencies 100 fps, time/color and saturation software control.
25	Capable to merge four views in a single video
26	Synchronized video capture, playback, slow motion, frame by frame Integratable with other data. To be able to save video picture on MPEG format.
27	Provision for upgradeability.
28	Data transmission by IP protocol
29	**Force platforms: 8 Nos**
30	Sensing area 2400mm x 800mm
31	Should be able to acquire static and dynamic forces in x, y, z axes
32	Digital output via Ethernet
33	Self-calibration of platform position.
34	Integratable software with kinematic and EMG data
35	Platform should have the facility of measurement in real time the ground reaction forces overlaid on the video shoot of the moving patient.
36	Upgradability to unlimited number of platforms
37	**Surface EMG system (16 wireless EMG channel)**
38	Wireless probes:

39	Should be surface electrodes: variable geometry electrodes with mounting clip 16 hit resolution- acquisition frequency upto 1000 KHz
40	Data transmission should be wireless (probes-receiving unit)
41	Probes- receiving unit up to 20 metres or more in free space
42	Memory on board solid state buffer memory system
43	Weight <10 grams, including battery and satellite electrode identification labels
44	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 12

Manipulation couch

Sl. No	Technical Specification
1	Dual section treatment table.
2	Electric high/low height adjustment from 49 to 101 cm for easy and safe patient transfer and adjustment to the ideal working height for treatment.
3	Easy accessible from any position around the table 360˚, for simple height adjustment.
4	Features smooth vertical lift with a capacity up to 150 kg or more.
5	Integrated gull wing Retractable caster system.
6	Adjustable head support - positive/negative inclinations.
7	Face hole on head section with removable cushion.
8	Manual adjustable lever assist in the adjustment of head section.
9	Main Powers - 230V / 50Hz
10	Standby Consumption - 3.5W
11	Input - 230V / 1.0 A / 50Hz
12	Weight - 80kg (176 lbs) plus 20 kg pallet when shipping
13	Dimension - 201(L) × 69(W) × 49 – 81(H) cm
14	Shipping Dimension - 219 × 84 × 75 cm
15	Lifting Capacity - 150 kg or more
16	Electrical Safety Class - Class II, Type B
17	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 13

Advanced scanning laser therapy unit

Sl. No	Technical Specification
1	The device must have source output Power of at least 20W +/- 20%
2	The device must have operating Wavelength of 1064 nm +/- 25 nm
3	Must have dual operation – either by Scanner or Hand piece for manual use
4	Must have option for operation through Hand piece with optical zoom
5	Should have minimum 6 modes of operation - Continuous, Pulsed, ISP (super pulse mode), TMP (triangular mode), Sequence (sequence mode) & SPM (single pulse mode)

6	Must be Class IV type Laser
7	Built-in Therapeutic Encyclopedia - description and images explaining application of all pre-programmed treatment programs
8	Should have at least 35 or more pre-programmed protocols
9	Mode of Operation should be through Scanner &Hand switch
10	Should be operable on Mains supply of 230V / 50-60Hz, 115V / 50-60Hz
11	Should have Applicator Spacer in one size with focus from 10 to 60 mm adjustable on hand piece to cover anatomic areas
12	Should be supplied with safety eyewear (2 nos.) with OD of 6+
13	The device must have Colour Touch screen operation; at least 8.4-inch screen or more
14	Must have Graphic touch screen size of minimum 7-inch for Scanning
15	Should be Portable & Light weight (up to 10 Kg)
16	Should be supplied with Trolley with Castors and Drawers
17	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 14

Probe laser therapy unit

Sl. No	Technical Specification
1	Larger Colour touch screen monitor for better control.
2	Should have 0.1 W to 10 Watt (10,000mW)or more continuous laser power (laser class IV) for acute, sub acute and Chronic conditions
3	Should have Setting options of the various operating modes:
4	Serial pulse: 0.1 Hz to 20,000 Hz
5	Single pulse: 0.1 to 5 seconds
6	Duty cycle: 10% - 90%.
7	Should have Wave Length 980nm and 810nm performing synchronized parallel emission and choice of individual wavelengths for superficial & deeper penetration
8	Should have Flexible, fibre optic lightweight laser-applicator equipped with manual switch to avoid operation by separate foot switch
9	Should have Body area wise and Alphabetic Indication menu with at least 20 preset protocols and treatment recommendations
10	Should have automatic assistance mode to calculate dosage for acute, sub acute and chronic conditions as per skin tone and treatment area.
11	Should have inbuilt skin temperature measurement sensor with facility of limiting output power to avoid overheating
12	Should have integrated Visual analogue scale to provide information about the patient's pain perception.
13	Should have facility to check automatically, suitable intensity as per treatment area and skin tone for patient safety.
14	Should have multiple security package by code key activation, emergency switch off, foot switch operation and protective spectacles.
15	Should have various size spacers to cover small, medium & large area.
16	Should have inbuilt calibration facility to ensure proper output

17	Should have Reminder for energy to be delivered per point and for total energy per treatment.
18	Should have facility to save data on USB stick to import and export of VAS & Favourites entries to and from another device
19	Should have Memory function for favourites entries for consistency in regular treatments.
20	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.
22	Operating voltage 100 - 240 V~, 50 Hz / 60 Hz, 220 V~ / 50 Hz
23	Power consumption max. 200 VA

Item no. 15

Cryo therapy unit

Sl. No	Technical Specification
1	The unit should have compact design & silent operation
2	System should come with maintenance free features (no water tank)
3	The device must provide air flow of 350-1200 liters / minute
4	Operating Air temperature must be up to -32 degrees Celsius
5	The Therapy Hose should be light weight and min 1 mtrs in length
6	The Unit should be supplied with the minimum 3 sizes of nozzles for different anatomic sites i.e. 5 mm, 10 mm & 15 mm diameter
7	Option for Wide angled nozzle should be available
8	The device should have option for therapy arm support holder
9	Accessories of glass plate for holding hose and applicators
10	The device must be supplied with built in Trolley with castors
11	Mains supply 100–240 V, 50–60 Hz

Item no. 16

Microwave diathermy with traction

Sl. No	Technical Specification
1	Physio Robotic Microwaveable Spine Table is made of high quality non-magnetic tough stainless steel pipe.
2	Physio Robotic Microwaveable Spine Table allow dynamic application of microwave diathermy fitted underneath through fully computer controlled motor.
3	7” Color Touch Screen display for all parameters with advance processor for high speed response.
4	100 Pre-set Clinical Protocols,
5	200 User defined memory with patient names.
6	Microwave motion available with variable speed 1~10 level.

7	Superb quality of PU foam seating for patients' comfort.
8	Precision craftsmanship to meets International standards.
9	Supplied with Wedge cushion (1x), Thoracic Harness (1x), Lumber Harness (1x), Flexion Stool (1x) as standard.
10	Power Emitted – 250 W (Continuous)/ 1600W (Pulsation)
11	Timer – 0-60Min
12	Motor- PMDC Motor 24V Cont. 99 W, Peak 286 W
13	Gear Ratio – 10:1, WL3
14	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 17

Recumbent total body stepper

Sl. No	Technical Specification
1	It should have Step-Through Frame Design.
2	It should have Linked Upper and Lower Body Linear Pattern.
3	It should have Adjustable Position Handles.
4	It should have Cushioned Footplates.
5	It should have Adjustable Step Range.
6	It should have Resistance Mode, Low Inertia, and Work Rate.
7	It should have Heart Rate Monitoring.
8	It should have Multiple Seat Adjustments.
9	It should have Natural Motion with Symmetry Monitoring.
10	Power - 90 to 240 volts AC
11	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 18

Computerized parallel bar with convertible stair case

Sl. No	Technical Specification
1	The unit should be combination of stair training and parallel bar exercises.
2	In the elevated position the unit should work as adjustable stair trainer and in the flat position the same unit should work as parallel bar.
3	The unit should have electrical height adjustment to adjust the height of steps.
4	The unit should be able to train in stair ascent and decent.
5	The unit should have easily adjustable handrail height and width.
6	The unit should have handrails on both sides of the walkway or stairs.
7	The height of each stair should range from “0 to 15” cm or more”.
8	The width of stair/slop should be at least 60 cm or more.

9	The number of steps must be at least three.
10	The flat walking surface should be at least of 180 cm long or more.
11	The unit should have weight bearing capacity of 180 kg or more (to accommodate the weight of minimum two people).
12	The unit should have anti-slip surface for added safety.
13	The unit should be wheel chair accessible in the flat position.
14	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 19

Microwave diathermy

Sl. No	Technical Specification
1	Large 7" Colorful Touch Screen Display
2	250 W (continuous) and 1600 W (pulsed)
3	Easy to Use: User Friendly Interface
4	Integrated Serial Controller
5	Overheating Alarm
6	Inbuilt Heavy Duty Microprocessor
7	100 pre-set Clinical Protocols
8	200 User Protocol with Patients' name
9	Dual Protection System to Guarantee Extended Magnetron Life
10	Supplied with circular antenna with arm as standard
11	Power Emitted - 250W (Continuous) / 1600W (Pulsation)
12	Timer - 0 - 60 min.
13	Power - 650 VA
14	Insulation/risk group - 1 BF – II B
15	Liquid Protection Level - IPXO
16	Dimensions - 410 (L) × 360 (W) × 835 (H) mm
17	Weight - 25 kg Approx.
18	Main Input - 190V - 240V 50 Hz
19	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 20

Portable tens (wireless)

Sl. No	Technical Specification
1	It should have four individually adjustable channels.
2	It must be free of lead wires running between the device and electrodes.
3	The maximal amplitude of the current form should be > 60 mA.
4	It should provide manual adjustments for intensity increments.

5	The minimum intensity increment should be up to 0.25 mA.
6	The minimum pulse duration/ width should be up to 30-400 micro seconds, frequency within the range of 1-150 Hz.
7	It should be able to deliver rectangular current in the pulsed as well as continuous mode.
8	The unit should be battery operated, which should be rechargeable.
9	The unit should be provided with minimum of fifty set of re-usable electrodes.
10	It should have 10 or more preset treatment protocols.
11	It should have inbuilt user guidelines, treatment recommendations.
12	Equipment should have ISO 13485/ BIS/ US-FDA/ CE (European) certificate.

Item no. 21

Shoulder wheel wall mounting

Sl. No	Technical Specification
1	Nautical cum Shoulder Wheel is fitted with Resistance mechanism and 360 degree scale.
2	Construction: 100cm diameter, tubular steel constructed Wheel is fitted with Precision machined plastic moulded drum & fitted with 127mm brake pads for resistance.
3	Movement: Bi-directional operation for shoulder & elbow.
4	Mounting: Wheel is mounted on Three laminated wall boards.
5	Arc of Motion: Shoulder Arc of motion can be varied on Stainless steel arm from 30cm to 80cm by fixing handle at the required place.
6	Nautical Motion: Fitted with 10cm long 8 handles on a tubular circle for Nautical Motion Exercises.
7	Height Adjustment: Two wall board are fitted with Two STAINLESS STEEL channels (81cm H x 6cm W) & Wheel can be raised or lowered by 50cm to suit each patient.
8	Resistance: Wheel is fitted with advanced Calibrated Sensitive Resistance mechanism and the resistance is controllable from Zero to Maximum.
9	Feed Back: A 360 degree scale is provided on the drum to measure & record the degree of revolution from either direction (for Left or Right Shoulder) for immediate feed-back to the patient.
10	Wall mountable unit: Set includes Wall mounting hardware.
11	Finish: Powder coated finish with polished Stainless Steel channels.

Item no. 22

Combination therapy unit (electrotherapy, ultrasound with vacuum)

Sl. No	Technical Specification
1	Combination therapy unit having facility of electrotherapy with ultrasound both in the same unit
2	Should have medical encyclopaedia into the system with anatomical library, and
3	Informative screens.
4	Should have facility for pre- programmed protocol selection through list navigation/quick
5	Protocols/body part navigation.
6	Should have large colour touch screen display
7	Should have large number of pre-programmed indications for electrotherapy (more than 70), ultrasound (more than 50) and laser (more than 50)
8	Should have the facility of up-grading the firmware in future
9	Should be able to treat 2 patients at the same time with independent therapies or same patient with 2 different indications.
10	Should have possibility to operate ultrasound simultaneously/independently while giving 4 pole electrotherapy treatment or two 2- pole treatments and 1 ultrasound therapy simultaneously.
11	Should have CE/ISO certification
12	Should have FDA certification.
13	Should have option for operation through battery.
14	**Electrotherapy unit**
15	Should have 2 channel electrotherapy with both independent channels
16	Should have the following currents: Galvanic, Faradic, Neofaradic, Diadynamic currents, TENS currents (sym, asym, alt), interferential currents(2 pole, 4-pole, iso-planar and dipole vector field), micro currents, high voltage therapy, H-wave, Leduc current,
17	Medium Frequency surges, exponential pulses, exponential pulses with rise, combined pulses, interrupted pulses, rectangular pulses, Traebert pulses, Russian stimulation, Stimulation pulses, Rectangular pulses, Triangular pulses, Interrupted pulses and Medium frequency surges.
18	Should have electro-diagnostics (measuring of I/T curves in user defined number of points, free programme position for I/T curve storing, determination of motor point, calculation of rheobasis and chronaxie, measuring of the accommodation coefficient).
19	Should have facility for Constant Voltage/ constant Currents modes
20	Should have facility of plotting and storing SD curves for comparison and future reference.
21	The unit should have Trolley with Castors along with at least 5 drawers for storage of accessories
22	**Ultrasound therapy**
23	Should have ergonomic heads with facility for visual accessory identification/visual patient contact indicator on screen as well as on treatment head.
24	Should have head warming facility for treatment head.

25	Should have facility to connect 2 US heads at the same time and same should be available for selection while setting up parameters for treatment through software saving operator's time and effort.
26	Should have option for connecting large hands free ultrasound applicator (preferably 18 cm^2 and 12 cm^2) with rotary field technology and simultaneous treatment with 1&3MHz for future upgrade.
27	**Technical features:**
28	Ergonomic Multi frequency treatment head for 1& 3 MHz treatment (Standard-ERA 5cm2 and Optional- 1 cm2)
29	Alternating frequencies 1 and 3 MHz allowing simultaneous treatment with 1 and 3 MHz
30	Duty factor of 5-95%, in steps of 1%
31	modular frequency: 10-150Hz.
32	Peak intensity of
33	0-2 W/cm^2 - duty cycle 100% in continuous mode
34	0-3 W/cm^2 - duty cycle < 100% in pulsed mode.
35	beam non-uniformity ratio<5
36	Head warming facility.
37	Treatment time of 0-30 minutes
38	**Vacuum features:**
39	The 2-channel vacuum unit should have the following features
40	Both the channels should be independent
41	Should have continuous and pulse mode with pulse mode of 5,10,15 and 20 pulses per minute
42	Should have quite and easy operation
43	Should be provided with 60mm suction cups and electrodes and also should have option for 30mm and 90mm suction cup electrodes and sponges.
44	Should have different programs for pulsating modes
45	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 23

Hydrocollator unit

Sl. No	Technical Specification
1	Physio Hydrocollator moisture hot pack warmer to warm steam pack.
2	Unit controlled thermostatically to insure the ideal temperature for pack.
3	Complete Stainless steel design outside and inside.
4	Full fibre glass insulation to prevent heat loss.
5	Units are equipped with caster for easy mobility in the clinics and hospitals.
6	Inside Racks for arrangement of packs easy to attach or detach. As shown left side below said image.
7	Unit designed with international safety standards.
8	Supply with hot packs as standard shown in ordering information.
9	Model No. 3050D - 12 Pack

10	Mains Power - 220 V 50/60 Hz
11	Power Consumption - 3000 W
12	Tank Capacity - 110 Litre
13	Temperature Range - 70° to 80°C
14	Temperature Cut out - 30° - 110°C
15	Heat up Time (to 70°C) - 3 Hrs
16	Cool Down Time (From 70°C) - 2 Hrs
17	Weight - 45 kg
18	Dimensions - (L × W × H) 56 × 76 × 85 cm
19	Electrical Safety Class - Class 1, Type B
20	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 24

Wall bar

Sl. No	Technical Specification
1	Wall bar single section, hardwood constructed with sturdy frame finished in natural wood polish.
2	Size: 90cm wide x 244cm high.
3	Rungs: 13, oval shaped rungs fitted squarely into vertical bars.
4	Adjustable Bar: One Bar (10th) is adjustable in height in Three Steps.
5	Chinning Bar: One bar is provided at top outside the frame for chinning exercise.
6	Wall mountable unit: set include mounting hardware.
7	Finnish: Natural wood polish finish.
8	Knee Support: One, foam padded knee support is provided as an aid for wheelchair patients for pull up exercises.

Item no. 25

Upper extremity cpm (shoulder elbow and wrist cpm)

Sl. No	Technical Specification
1	**Shoulder Joint:**
2	Elevation range: 0^0-175^0
3	Adduction/abduction range: 40^0-130^0
4	Intra extra-rotation range: 90^0-0^0-90^0
5	**Elbow Joint:**
6	Extension flexion: 0^0- 140^0
7	Prono-Supination: 90^0-0^0-90^0
8	**Wrist Joint:**

9	Flexion extension: 80^0-0^0-80^0
10	Ulnar radial deviation: 25^0-0^0-30^0
11	The unit should have max. speed of 3^0-3.5^0/sec.,
12	The unit should have laser pointer to ensure the correct positioning of the joint
13	The unit should have patient stop switch for patient safety.
14	The unit should have control panel on the machine itself and not on the remote control for safety reasons.
15	The single unit should be able to rehabilitate shoulder, elbow and wrist joints.
16	The unit should be movable on castor wheels.
17	The unit should be supplied with a memory card for running the program
18	The unit should be capable of exercising spinal cord injury patients in supine position
19	Automatic increase of breadth of movements on both limits
20	Pause in both limits
21	Warm-up cycles
22	Unit height should be adjustable as per patient's requirement.
23	Unit should be supplied with accessory trolley.
24	Should be supplied with complete set of accessories required for passive movements of Shoulder, Elbow and Wrist.
25	Should meet the international safety standards.
26	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.
27	Should be supplied with voltage stabiliser of required rating.

Item no. 26

Lower extremity cpm (knee, hip & ankle)

Sl. No	**Technical Specification**
1	Knee and Hip mobilization
2	Individual Ankle Mobilisation is must in the same unit.
3	Digital operating panel with LCD display.
4	Should have Memory Card for storing the personalised patient programs for repeated use.
5	Should have speed control during Flexion /Extension.
6	Should have Force control option
7	Should have Work time control
8	Facility to adjust automatic increase in Extension range
9	Facility to adjust automatic increase in Flexion range
10	Pause during flexion/ Extension
11	Warm up Cycles.
12	The unit should have functional panel on the unit only and not on the patient stop switch or remote control for patient safety.
13	Knee range of movement: 0^0 - 135^0
14	Ankle range of movement in passive : 20^0 - 0^0 - 40^0

15	Hip range of movement (mid limb) : - 7^0 – 115^0
16	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.
17	Power supply: 220-240V, 50 Hz

Item no. 27

Pronation supination exerciser

Sl. No	Technical Specification
1	Wrist Roll, Combo unit for Flexion-Extension & Supination-Pronation exercises of Wrist and Forearm. One piece Wooden Roll with Wrist Rotation handles on both sides is fitted on a laminated board.
2	Wrist Roller: Wooden Roller with Three different diameters i.e. 30mm, 40mm and 50mm to suit different Grips.
3	Resistance: Unit fitted with Adjustable Resistance Control mechanism, controllable from Zero to Maximum.
4	Mounting Board: Laminated Board size, 20cm x 80cm long for placing or fixing on table. Can also be mounted on Wall if required.
5	Finish: Wooden Roller.

Item no. 28

Wrist rotator exerciser

Sl. No	Technical Specification
1	Wrist Roll, Combo unit for Flexion-Extension & Supination-Pronation exercises of Wrist and Forearm. One piece Wooden Roll with Wrist Rotation handles on both sides is fitted on a laminated board.
2	Wrist Roller: Wooden Roller with Three different diameters i.e. 30mm, 40mm and 50mm to suit different Grips.
3	Resistance: Unit fitted with Adjustable Resistance Control mechanism, controllable from Zero to Maximum.
4	Mounting Board: Laminated Board size, 20cm x 80cm long for placing or fixing on table. Can also be mounted on Wall if required.
5	Finish: Wooden Roller.

Item no. 29

Computerized balance system

Sl. No	Technical Specification
1	Static and Dynamic Platform to assessment the fall conditioning.
2	High Resolution Color Touch-Screen LCD of 12" or more
3	Visual Biofeedback in real time prompts patients into proper postural and balance control
4	Five/six Training Modes and Four Protocols for vestibular and neuromuscular re-training.
5	Interactive Game-Like Balance Training – increases patient interaction and compliance
6	Standardized Fall Screening and Athlete Knee Injury Screening Tests – simple, quick and accurate.
7	Twelve Levels of Platform Control as well as Static Force settings – allows testing, training and rehabilitation programs for diverse populations in static and dynamic mode.
8	Balance Training for proprioception and stabilization exercise, range of motion and weight shift exercises
9	Objective Documentation –printed color reports track progress and document outcomes
10	Patient Data Storage maintains records to track progress and issue reports for up to 1000 patients
11	Locking Surface – ensures safe "on and off" patient movement
12	Adjustable Support Handle– locks in place for safety or swings away for an unobstructed open environment allowing a variety of training activities
13	The system should provides fast, accurate Fall Risk Assessment and Conditioning for older adults plus closed chain, weight-bearing assessment and training for lower extremity patients.
14	The system should help clinicians assess neuromuscular control by quantifying the ability to maintain dynamic bilateral and unilateral postural stability on a static or unstable surface by using any of four test protocols including fall risk, athletic single leg stability, limits of stability and postural stability.
15	supplied with suitable printer
16	Patient Capacity: 400 lb (136 kg)
17	Dynamic suspension system to maintain consistent unweighing during walking or running.
18	Unique integral lift mechanism to assist patients from the seated position.
19	Require No electric, weights or air compressors.
20	Digital readout quantifies unloaded weight.
21	Lightweight, high strength aluminum frame to make it easy to move around.
22	Large, easy roll locking casters.
23	Removable and adjustable arm supports.
24	System that can accommodate children to adults.
25	Adjustable height to fit 8 feet (244 cm) or 9 feet (274 cm) ceilings.
26	Provide up to 150 lb. (68 kg) un-weighing capacity.
27	The unit should have choice of support vests accommodates all size patients.

28	The unit should include universal support vest that accommodates chest sizes of 24” to 56”
29	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 30

Postural training mirror

Sl. No	Technical Specification
1	Mirror size 180cm x 60cm protected by 5cm wood polished frame
2	It should be made up of angular frame, mounted on tubular stand with four casters.

Item no. 31

Treadmill (for rehabilitation purpose)

Sl. No	Technical Specification
1	Treadmill should a robust & reliable motorized treadmill designed specifically for cardiac stress-testing.
2	It should have secure patient’s safety, there are two emergency buttons located on the handrails.
3	It should have facility to Each of them enables immediate operation interruption.
4	It should have the standard handrails can be replaced by paediatric handrails to support paediatric patients.
5	It should be guarantee a full comfort during exercise, the running belt is triple thickness and absorbs shock making.
6	Dimensions of treadmill Should be following:
7	Length: 205 cm, Width: 80 cm, Height: 110 cm +/- 10 cm
8	Maximum Weightshould be 160 kg
9	Running Belt should be 50 x 150 cm +/- 10 cm
10	Height from floor should be minimum 15 cm
11	Max. Permissible Load Should Be 200 kg (max patient weight)
12	Speed Rangeshould have 0-20 km/h
13	It should have also Speed Increments 0,1 km/h
14	It should have Incline Range 0 - 15%
15	It should have Incline Increments 0,5 %
16	It should have speed motor Asynchronous 3 phases 2 HP, AC
17	Elevation Motorshould be 90 Watt DC
18	Voltage Supply should be 230 V 50 Hz
19	Power should be ,2 KVAO
20	It should have Computer Interface RS 232 or USB
21	It must have Electrical Safety Compliant with IEC 60601-1
22	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 32

Vital stimulation for dysphagia

Sl. No	Technical Specification
1	The unit must be portable, light weight.
2	It should have two independent channels and should be able to apply separate four electrodes simultaneously.
3	It should have options of different clinical waveforms.
4	Intensity output should not exceed 50mA; frequency should not exceed 100Hz and phase duration not to exceed 300 microseconds.
5	Must have ramp up and down facility.
6	Must have sEMG (surface EMG) for treatment based on bio-feedback system.
7	Supply with four nos. of stimulation lead wires, and device protection cover and minimum 50 sets of reusable electrodes.
8	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 33

Contrast compression therapy system

Sl. No	Technical Specification
1	Simultaneously deliver heat or cold water and active air compression to help prevent and treat injuries.
2	Active air compression helps to reduce swelling and stimulate the flow of rich oxygen blood.
3	Cooling and heating further reduces swelling muscle spasm and pain.
4	Various modes for Cold + compression, Hot +compression and Contrast+ compression.
5	Recommended Coolant: Distilled Water, no need to fill Ice cubes.
6	Therapy Temperature Range: Cold 6 - 15 ℃ Heat 35 - 45 ℃
7	Time Range: Cold 5 - 60 min, Heat 5 - 30 min
8	Pressure Range: 0 –75mmHg
9	LCD display for ease of operation.
10	Supplied with reusable Wraps for Knee and universal wrap with proper straps for easy fixation.
11	The wraps have its own drain valve for easy drainage.
12	Optional Wraps for Ankle, Elbow, Shoulder, and Back.
13	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 34

Vacum therapy unit (with electro therapy)

Sl. No	Technical Specification
1	Both the channels should be independent
2	Equipment should have low and medium frequency currents.
3	Should have continuous and pulse mode with pulse mode of 5,10,15 and 20 pulses per minute
4	Should have quite and easy operation
5	Should be provided with 60mm suction cups and electrodes and also should have option for 30mm and 90mm suction cup electrodes and sponges.
6	Should have different programmes for pulsation modes
7	Class according to MDD 93/42/EEC: IIb
8	Mains supply: 230V/50-60Hz, 115V/50-60Hz
9	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 35

Portable interferential therapy (ift)

Sl. No	Technical Specification
1	International standards and specifications
2	Auto fault detection of Cable and Electrodes
3	Easy to operate
4	Light weight and compact design
5	DSP based circuitry
6	Built in rechargeable battery (optional)
7	Outputs are in 100 % accuracy
8	Large LCD display
9	User settable Memory
10	Universal input voltage 90v-270v
11	Independent Intensity control in 2 pole mode
12	Advanced patient safety system
13	Carrier frequency – 2,4,6,8,10 KHz
14	Base frequency – 1-150 hz (1 hz step)
15	Sweep frequency – 0-150 hz (1 hz step)
16	Sweep modulation programs – 1/1 sec, 1/5/1/5 sec. 6/6 sec
17	Therapy modes – four pole interferential, four pole vector 90 degree, two pole premodulated
18	Output current – 0-100 mA
19	Timer – 0-99min.

Item no. 36

Functional medical training exercise therapy units

Sl. No	Technical Specification
1	The unit should be a computerized 3D Robotics system providing functional arm movement in a two and three dimensional plane for enhancement of recovery of upper extremities.
2	The System must be able to completely support the weight of arm and eliminate effect of gravity so that existing muscular capacity may be used for the movement and recovery.
3	The Robotic Arm system should be motorized and able to operate in active, passive and interactive manner.
4	The system should comprise of a motion unit mounted on wheels with integrated internal computer multi-touch screen with speakers, with a detachable operating handle mounted on a moving mast with up down and linear movements.
5	Should be supplied with specially designed chair to seat patients safely and comfortably. The chair should have straps for patient safety and facility of adjusting seat i.e. lowering, elevation, etc. The chair should be equipped with castors with locking facility.
6	Should be able to provide the adjustments and the safety locks at the desired range zone in which training/exercises is to be provided.
7	Robotic Arm should have an integrated forearm splint for arm weight support.
8	Robotic Arm should be suitable for adult patient application with adjustable length of the forearm to different arm sizes of patients.
9	The unit should have at least 10 to 15 built-in therapy exercises program.
10	The system should have facility to create personalized therapeutic program customizing exercise patterns, ranges, mode of assistance and number of repetitions for each patient according to therapy requirements.
11	Incorporated exercise should be multi tasking and goal oriented games to challenge motor and cognitive skills of the patient for comprehensive rehabilitation of arm and hand.
12	The system should have the facility of force/ resistance control for each exercise.
13	System shoulf have detailed assessment proggrame.
14	The system should have adjustable levels of difficulty and range of motion according to the difficulty level of game/exercise.
15	It should also provide real time audio and visual feedback and instructions to the patient during games/exercise.
16	The software/equipment must have integrated system to store, document, and export the patient's record for different sessions and provide the comparison of the performance for various sessions.
17	The system should be supplied with different handles/supports for use according to patient needs: (i) Handle-for smooth movement of the arm according to the system's motion and should also have facility to lock movement direction to limit movement and should also allow free movement. (ii) Straps for spastic or flaccid hands. Page 9 of 17 (iii) Forearm support.
18	The system should have Grip and Release Handle for training for hand and finger movement.
19	The Robotic arm should be usable for the left and the right arm and should contain braces to position the patient's arms. The braces should be eudermic and washable.

20	System should have conveniently located patient emergency pull cable or an emergency stop button for patient safety.
21	There should e sufficient evidence available from user trials showing functional improvement.
22	The vendor should provide free installation and training for technical and clinical staff at site of installation by their engineer.
23	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 37

Virtual reality system

Sl. No	Technical Specification
1	Total 26 Activities
2	Assessment of patient
3	Upper limb exercises
4	Lower limb exercises
5	Balance training exercises
6	Compensatory movement detection & reported in a printable report
7	Printable report with Qualitative & Quantitative parameters
8	Digital prescription & monitoring through remote cloud platform
9	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 38

Spinal decompression

Sl. No	Technical Specification
1	The device supports the patient during decompression therapy. The height of the device can be adjusted with the help of the telescopic column. Angles of sections can be adjusted with the help of linear actuators or gas springs. Movements are controlled by pushing buttons on the remote control.
2	**Features**
3	Innumerable treatment options for low back pain
4	The very first automated decompression for neck pain that substitutes manual therapy
5	Parking position for effortless return of the patient to the initial position
6	The most gentle and precise dosing of decompressive forces by 100-gram force increment
7	Extended therapy options
8	Adapter for neck pain therapy in a sitting position
9	Asymmetric adapter
10	**Additional features**
11	Therapy modes for personalized treatment
12	Automated pre-intervention traction test

13	Preset protocols
14	Encyclopaedia
15	An integrated heat kit for enhanced therapeutic outcomes
16	Comfortable patient setup due to belt system
17	**Design**
18	Overall dimensions without accessories (w x h x d) 70 x 102 x 277 cm
19	Weight 205 kg
20	Load Capacity 180 kg
21	Electrically adjustable height of couch 63 to 93 cm
22	Electrically adjustable pelvic tilt 0° to 25°
23	Electrically adjustable upper section -15° to 40°
24	Electrically adjustable thigh section 0° to 70°
25	Electrically adjustable lower section -15° to 25°
26	Manually adjustable head section 0° to 25°
27	Manually adjustable armrests -25° to 0°
28	**Classification**
29	Class according EN 60601-1- I
30	Applied part type- B Patient Switch: BF
31	**Power supply**
32	Maximum input Max 650 VA
33	Voltage ~100-240 V
34	Frequency 50 to 60 Hz
35	External exchangeable fuses 2 x T6,3AH~250V, size 5x20 mm
36	Mains switch On the console, positions 0 (off) and 1 (on)
37	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 39

Bobath couch

Sl. No	Technical Specification
1	Couch has a types of base system4 directional castors with central brake (F4)2 types of frame painting.
2	Easily adjustable head section - (via gas springs)
3	high / low height adjustment via foot bar accessible fromeach side of the table or hydraulic adjustment (hydraulicactuator) via pedals accessible from 2 sides of the table,possibility of usage of oils (premiumupholstery), largerworking surface.
4	face hole (option in headrest), withbreathing slot cover, ergonomic table top, two – layerpadding non-flammable / bio - compatible / scratch proofstandard upholstery, premium upholstery (optional) fromPU, many available for patients of weight up to 200 kg, 80mm table upholstery thickness (optional).
5	Safety: stable steel frame, Personal Authorization SafetySystem with 2 magnetic safety keys, non - slip feet andlarge lower frame for better stability for Bobath and Voytatreatments, for motor rehabilitation of children with centralnervous system impairments.

Item no. 40

Shock wave therapy unit

Sl. No	Technical Specification
1	**General Characteristics:**
2	Operating Pressure –upto 5 Bars
3	System must have upgrade option to go to 5 bars pressure
4	Frequency – upto 20Hz
5	System must have option to increase frequency up to 20 Hz
6	Highly-effective, non-invasive treatment for pain associated with musculoskeletal system
7	Built-in Therapeutic Encyclopaedia - description and images explaining application of all pre-programmed treatment programs
8	Should have pre-programmed protocols
9	Large touch screen display - 5.7 inches
10	Self-identifications of accessories and accessories maintenance check
11	User defined programmes also should be available
12	Setting of sound effects, display, auto turn-off
13	Intensity Gradient Model should be available
14	Applicator must eliminate backward shocks
15	Applicator must give at least 20,00,000 shocks
16	User defined programmes also should be available
17	Mains supply 100-240V / 50-60 Hz
18	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.
21	Must be supplied with Trolley with castors & minimum 4 selves for storing accessories
22	**Should be supplied with following Standard Accessories:**
23	SWT 15 mm Focussed – 1 unit
24	SWT 15 mm Multi Focussed – 1 unit
25	SWT 9 mm Multi Focussed – 1 unit
26	Touch Screen Pen Pointer – 1 unit
27	SWT Gel – 1 unit

Item no. 41

Biofeedback for urinary problems with pelvic floor trainer

Sl. No	Technical Specification
1	4-channel eWave (Science beam co) 4-channel differential amplifier, able to record any type of biological
2	signals (EEG, EMG, ECG, EOG, and connected various sensors)
3	Synchronously recording signals from brain, muscle, heart, and eye is possible (All channels capable of recording EXG(EEG/ECG/EMG/EOG))
4	Neuro-Biofeedback possible

Sl. No	Technical Specification
5	USB and Bluetooth connection
6	1000 Hz Sampling frequency for each channel,
7	increasable to 16 kHz Bandwidth: 0-400 Hz/Connecting extra bio signal sensors is possible
8	24-bit Analog to Digital Converter (ADC)
9	Very low noise (less than 1 μv) DLL files,
10	for online or offline signal visualization Coming with a user-friendly
11	software environment for real-time and offline visualization and analysis of bio-signals
12	Software: eLife software for real time signals visualization and analysis Online and offline signal
13	Visualization Online FFT Power of different frequency bands Including more than 50 protocols for neurofeed back and biofeedback therapy Many games, music, and videos for Neurobiofeedback Therapy.
14	Users' information and file Different unlimited scopes can be added for showing various channels signals
15	FFT panels can be added.
16	Continuously Saving data Low-pass, High-pass, and AC (powerline removing) filters
17	Adjustable parameters, including AC and DC filters, scales, signal type, scopes, etc. Adding unlimited numbers of films and music is possible Online downloading games, music, and films from the Science Beam store Including lots of standard treatment protocols Designing customized protocols
18	based on your requirements is possible Designing protocols based on the brain map is possible Capable
19	of giving feedbacks with different logics Attention Index Analysis Clinical Q Analysis/EMG analysis /ECG(RRI) analysis Online FFT Power of different frequency band.
20	Accessories:
21	(Cables and connectors) 2 channels EXG cable
22	(for EEG/ECG/EMG) 4 channels EXG
23	cable (for EEG/ECG/EMG)
24	Ear clips (1 pair)
25	5 Leads for EMG/ECG
26	4 disk electrode EEG
27	eCap for neurofeedback 10-20 system
28	BioSense Module 4-channel extra module for recording respiration, Galvanic Skin Response (GSR),
29	Temperature and ECG.
30	**Pelvic Floor Trainer**
31	Pelvic Floor Muscle Sensor and Training:
32	Include rectal and vaginal sensors to record electrical activity of the muscles of the vagina and the rectum.
33	It has various application disorders such as urinary incontinence.
34	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 42

Muscle stimulator

Sl. No	Technical Specification
1	Micro controller based stimulator cum tens
2	Two types INT galvanic pulse square and triangular
3	LCD display for therapy time and type
4	Treatment time & Treatment mode display
5	Soft touch key function
6	Treatment modes Consists of; Iontophoresis, Galvanic, Int.Galvanic, Faradic, Surged Faradic, TENS, TENS Burst
7	Faradic
8	Freq./ P.width – 50 Hz / 7 mSec
9	Surge ON time – 1 – 10 sec (1 sec step)
10	Surge OFF time – 1 – 6 sec (1 sec step)
11	Int. Galvanic
12	Therapeutic – 30 – 300 mSec (1 mSec step)
13	Diagnostic – 01, .03, .3, 1, 3, 10, 30, 100, 300 mSec
14	Pulse type – Square, Triangular
27	The system should be USFDA / European CE with 4 digit notified body / BIS certified.

Item no. 43

Functional electrical stimulation

Sl. No	Technical Specification
1	System should feature a 1:1ipsilateral leg-to-arm motion, allowing a naturalswing throughout each session.
2	Machine has to work for patent's arms and legstogether in a single session to achieve enhancedcardiovascular effects.
3	Muscle selection Shoulder, Upper extremity, Core & Trunk, Lower extremity.
4	System should have following features
5	Easy-to-use touch screenand software, Stimulators, Reclining and rotatingmulti-position seat, 1:1 ipsilateral leg-to-arm motion, Movable base, 4-point safety harness, Adjustable hand, and grip support.

Item no. 44

Dual frequency ultrasound therapy unit

Sl. No	Technical Specification
1	The unit should give therapeutic ultrasound which stimulates the repair of tissues injuries & also relieve pain.
2	The unit should have 1 &3 MHz dual frequency.
3	Should have pulsed & continuous frequency modes (20/25%, 50% , 75% & 100%).

4	Should have variable duty cycles of 16 Hz, 48 Hz & 100 Hz.
5	BNR (beam non-uniformity ratio) must be <6:1
6	Should have facility to choose intensity units: Watts/cm² or Watts.
7	Must have facility to save minimum 20 user-defined protocols/treatment protocol.
8	Must have facility to indicate applicator uncoupling and stop the device.
9	Must have an Backlit LCD display minimum size length size (8m-11cm) and width4cm-6cm) and easy to use navigation buttons; at least 7-inch Colour touch screen
10	Supply with option of inbuilt battery system.
11	Electrical Safety Class: Class I, Type B
12	Power: 100-240V, 50-60
13	The digital timer unit should range from 1-20 minutes.
14	The unit should supply with 2 probes -1 large (5 cm sq.) and 1 small (1 cm sq.) size with multi frequency
15	The device must have Hands Free applicator option in size of Small (12 cm sq.) & Large (18 cm sq.) size.
16	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.
17	The unit must be supplied with Trolley with castors & at least 6 drawer facility.

Item no. 45

Hydrotherapy treadmill unit

Sl. No	Technical Specification
1	Therapeutic Pool with Treadmill,
2	Stearing panel with LCD Display,
3	Drive Control Cabinet, Wires and Connecting Pipes.
4	For Children and adults (max. height:without limit, max. weight: 135 kg);
5	Max. height of user (dep. on version):140/160 cm or unlimited
6	Max. weight of user (dep. on version): 50/135 kg
7	Max. Speed: 9 km/h;
8	Immersion depth of the patient: 0-120 cm;
9	Usable volume of water: 1600 l;
10	Water pumping tank of 2000 l (only fo MAC-BS)
11	Entrance by the Opening door;
12	Steps or Platforms
13	Filtration system (different systems to choose)
14	Option to read parameters of therapy
15	Automatic chlorine dosing and pH adjustment
16	Overflow protection system
17	Treatment time of 30 mins
18	Floor cover for connections
19	UV disinfecting lamp
20	Heat shield
21	Water Pumping Tank;
22	Hydraulic Drive;

23	Sand Filter;
24	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.
25	**APPLICATIONS FOR REAHBILITATION**
26	Improving balance and movement coordination, including improving posture an movement stability,
27	Increasing the range of angular movements,
28	Scoliosis and faulty posture,
29	Degeneration and inflammation of joints, limbs and spine,
30	Cerebral palsy,
31	Autism,
32	ADHD,
33	Choreoathetosis,
34	Cardiovascular system diseases (improving cardiovascular competence),
35	Hypertension,
36	Sports rehabilitation-development of musculature, improvement of capacity and strengthening of muscles.

Item no. 46

Perineometer

Sl. No	Technical Specification
1	It is a hand-held clinical perineometer intended for assessing the strength of pelvic floor (pf) muscles and teaching pelvic floor exercises. Both vaginal
2	Two and More soft exchangeable sensors (in different sizes)
3	The sensor is made of molded silicone.

Item no. 47

Vagina pump fit

Sl. No	Technical Specification
1	Large ergonomic cylinder fits over vagina
2	The medicine-ball style hand pump to create suction
3	Quick-release valve
4	Airlock release system holds pressure even when you remove the pump and tube from the cylinder
5	Measurement: Cup is 5 inches in length, 4 inches in width, 2.15 inches in depth. Hose is 10.25 inches in length

Item no. 48

Vaginal dialators

Sl. No	Technical Specification
1	Discreet Shipping - In a Heat Sealed Bag for Customer Safety
2	Set of Five Plastic High Quality Silky Smooth Lightweight Sturdy Plastic - Tapered Tip for easy insertion
3	Extremely Lightweight Medical Grade Polycarbonate, so no added pressure.
4	Waterproof. Plastic

Item no. 49

Pelvic floor 360

Sl. No	Technical Specification
1	These smart can not only use up body fat quickly, but also achieve an ideal figure. You can also massage your waist to relax. A product has two functions, lateral movement, side massage
2	The smart hoops for exercise is easy to use, Suitable for waists within 43 inches.
3	The upgraded hoops for exercise has a hard-core, intelligent digital display function, which can accurately record the number of hoops for exercise rotations, exercise time, calories consumed and other scientific fitness data.
4	Should suitable for all adults and kids but not the elderly or baby. With Free Accessory Skipping Rope.

Item no. 50

Weighted vaginal ball (all sizes)

Sl. No	Technical Specification
1	These six weights are suitable for individuals ranging from beginner to expert level.
2	The weights' superior quality and luxurious feel enable them to fit perfectly, easy insertion, and optimum muscle contraction to give you results you can track.
3	Made from silicone, Hypoallergenic & 100% waterproof. The silicone is super soft, ergonomically designed,

.

Item no. 51

Iastm tool

Sl. No	Technical Specification
1	Consists of 5 Types of tools
2	One Electric Chiropractic Adjusting Bone Tool, for Back Spine Chiropractor Gun with
3	Massage Heads
4	Types of Heads
5	T type Physiotherapy head
6	Single pressure Physiotherapy Head
7	Double O Ring Small U and Big U Physiotherapy Head
8	3 Types of Plastic Massage Lax Head
9	Conical Massage Head
10	Particle Massage Head

Item no. 52

Motorised tilt table

Sl. No	Technical Specification
1	Table should be with 2 motors (for verticalization and to height adjustment).
2	manual remote control, tiltangle indicator, 4 large separately lockable castors (Movement and rotation lock), ergonomic table top, two-layer padding (specially selected density of foams).
3	non - flammable / bio - compatible / scratchproof upholstery.
4	smooth tilting, adjustable footrest 2 separately adjustable (Hi - Lo)), supporttable (option), arm supports (option).
5	Safety: stable steel frame, function of accessauthorization - done by a special key placed in the remotecontrol, brackets for the attachment of fastening beltsand additional accessories, fastening belts, emergencybattery back-up power supply (allows table lowering tomin. height and return to horizontal position at powerfailures).

Item no. 53

Peripheral nerve stimulator

Sl. No	Technical Specification
1	Current range – 0-30 mA , Adjustable in 1 mA increments.
2	Load impedance- 0-7 kOhm
3	Stimulating mode- HYBRID RF wave and Monophasic
4	Square wave Dimensions - 145mm*90mm*30mm
5	Operating temperature- 10-40 degree C
6	PRF current waveform superimposed on direct and low frequency components of

	current.
7	Externally applied – Non-invasive intervention Ergonomically designed stimulation probe made of biocompatible stainless steel.

Item no. 54

Matrix therapy system

Sl. No	Technical Specification
1	Frequency: Dynamic 8-12 Htz, Alpha Rhythm
2	Control Unit Size L *W*H: 21*18*16 cm
3	Resonators: Logarithmic Spiral, Magnetic, Non Magnetic, and Paediatric
4	Components: Base Unit, Mannual Applicator, Connecting Cable and Power Cable
5	Certificates: CE Certificate

Item no. 55

Cognitive rehab unit

Sl. No	Technical Specification
1	Application of system should be with Neurological rehabilitation, Neuropsychological rehabilitation, Physiotherapy, Geriatrics, Post-traumatic rehabilitation, Orthopedic rehabilitation, Support in development of children with disabilities, Health prophylaxis.
2	Crucial motor functions to be improved:Hand-eye coordination, Synchronization of movements, Contralateral movement coordination, Joint mobility, Strength and muscle endurance, Speed of response, Movement control, Load distribution, Balance control.
3	Crucial cognitive functions to be improved: Concentration on task, Divided attention, Inhibitory control, Memory, using knowledge in possession, Visual perception, Counting, Reading, Decision making, Problem solving.
4	cognitive elements in motor exercises must be included for neurological rehabilitation.
5	Balance Control Training is a must In the software which has to be supplied
6	Creating Patients profiles and creating training sessions must be there adjusting exercise parameters
7	It should be possible for the therapist selects baseline difficulty level, number of repetitions and range of motion. If any exercise turns out to be too easy or too difficult, it will be modified by intelligent algorithms embedded in the system. 28 diversified difficulty levels ensure precise adjustment to current abilities of all patients.
8	Equipment should have software, Large display, Computerized system, Optical system in 3D technology.
9	Extension should be possible Functional device offloading the upper extremity: adjustable support rate, working on all levels.

10	balance control Module should be possible to extend Additional set of exercises.Module for measurement of balance control parameters. Folding security railing.
11	Reports and comparison and patient data save facility has to be there.
12	Offered model should have USFDA/ CE/BIS/ISO 13485 certification.

Item no. 56

Pneumatic Compression Therapy

Sl. No	Technical Specification
1	Maximum Power: 350 W
2	Output power : 2 Output power level
3	No. of Air chambers : 20 groups of air chambers
4	No of Air outlet : 8 groups of air outlet
5	No of electro stimulation : 8 pairs of elctro stimulation
6	Extra Feature: 7 infrared heating, 3 infrared heating outlet.
7	Size of the belt:
8	Arm : length : 45 cm more , width 30 cm or more
9	circumference : 65 cm or more
10	Waist : length : 45 cm or more, width : 30 cm or more
11	circumference : 130 cm or more
12	Leg : Length: 65 cm or emore, width 25 cm ore more
13	circumference : 68 cm or more
14	Foot: Length : 50 cm, width : 15 cm ore more
15	circumference : 32 cm or more

B. GENERAL POINTS:

1. Warranty:

a) The bidders must quote for Comprehensive Warranty as per Conditions of Contract of the bidding document for complete equipment (Including all spares, labour and third party items) and Turnkey Work (if required) from the date of satisfactory installation, commissioning, trial run, handing over and acceptance of the goods by the User Department.

b) The warranty charges shall not be quoted separately.

c) All software and hardware updates should be provided free of cost during Comprehensive Warranty period.

d) During the Warranty period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime more than 5%, the warranty period/CAMC period will be extended by double the downtime period. Complaints should be attended properly, maximum within 8 hrs.

2. After Sales Service:

After sales service centre should be available at the city of Institution on 24 (hrs) X 7 (days) X 365 (days) basis. Complaints should be attended properly, maximum within 8 hrs. The service should be provided directly by Bidder/Indian Agent. Undertaking by the Principals in the "Manufacturer Authorisation Form" that the spares for the equipment shall be available for at least 10 years from the date of supply of equipment.

3. Training:

On Site training to Doctors/ Technicians/ staff is to be provided by Principal/Indian Agents (if they have the requisite know-how) for operation and maintenance of the equipment to the satisfaction of the User Department.

4. Comprehensive Annual Maintenance Contract (CAMC) of subject equipment:

a) The cost of Comprehensive Annual Maintenance Contract (CAMC) which shall include preventive maintenance including testing & calibration as per technical/service/ operational manual of the manufacturer, labour and all spares, after satisfactory completion of Warranty period may be quoted for next five years on yearly basis for complete equipment including third party items as per Price Schedule.

b) The cost of CAMC may be quoted along with GST applicable on the date of Bid Opening.

c) Cost of CAMC will be added for Ranking/Evaluation purpose on NPB basis.

d) Before commencement of CAMC period, the suppliers shall furnish a Performance Bank Guarantee for 2.5% of the cost of the equipment (as per Performa given in bidding document) valid till 3 months extra after expiry of entire CAMC period. The Performance Bank Guarantee for CAMC will be applicable in case of equipment cost is more than Rs.10 lakh.

e) All **software/hardware** updates should be provided free of cost during CAMC. In case of failure by the supplier, the Bank Guarantee of CAMC will be forfeited.

f) The payment of CAMC will be made on half yearly basis after satisfactory completion of said period duly certified by end User.

g) During the CAMC period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime more than 5%, the warranty period/CAMC period will be extended by double the downtime period. Complaints should be attended properly, maximum within 8 hrs.

5. Uptime & Downtime Penalty Clause:

a) The firm should provide uptime guarantee of 95% during warranty period and CAMC period.

b) During the Warranty period and CAMC period, desired Uptime of 95% of 365/366 (Leap Year) days (24 hrs), if downtime more than 5%, the warranty period/CAMC period will be extended by double the downtime period Complaints should be attended properly, maximum within 8 hrs.

6. Turnkey Work:

Turnkey Work is to be indicated in the Technical Specification wherever required. The Bidder shall examine the existing site where the equipment is to be installed, in consultation with User Department. The Bidders are required to quote separately for the equipment and Turnkey Work as per Price Schedule. The Turnkey Work costs may be quoted in Indian Rupee and the same will be added for Ranking Purpose.

The Turnkey Work should completely comply with AERB requirement, wherever required.

SECTION - VIII

QUALIFICATION CRITERIA

1. **Status:** The bidders must be a manufacturer. In case the manufacturer does not quote directly, they may authorise their authorized agent as per proforma of "Manufacturer Authorization Form" as given in the bidding document to quote and enter into a contractual obligation.

2. **Minimum Work of Similar Nature:** The Bidder or its Manufacturer/ OEM should have supplied and installed the tendered quantity of the below mentioned items in last five years from the date of Bid Opening, successfully supplied and executed order(s)** to hospital(s) like any Govt. hospitals/institutes of national importance or at any other reputed hospitals/institutes globally as detailed below.

   **The order(s) individually or in combination should include the following (any 05):
   a. Cervical traction and lumber traction with height adjustable traction bed (Qty 1 no)
   b. Active passive trainer (device for bed patient in lying) (Qty 2 no)
   c. Movement therapy system for lower & upper limb (Qty 1 no)
   d. Computerized hand exercise & evaluation system with visual bio-feedback (Qty 1 no)
   e. Computerised isolated joint measurement and training system (isokinetic system) (Qty 1 no)
   f. Gait and motion analysis lab (Qty 1 no)
   g. Hydrotherapy treadmill unit (Qty 1 no)

   In support of the above, the Bidder shall furnish Satisfactory Performance Certificate from the end user duly translated in English and duly signed alongwith the bid.

3. In support of 2, the Bidder shall furnish Performance statement in the enclosed Proforma 'A'.

4. The Purchaser reserves the right to ask for a free demonstration of the quoted equipment after giving reasonable time to the bidder at a pre-determined place acceptable to the purchaser or at site (in case of non-portable and heavy equipment) for technical acceptability as per the bidding document specifications, before the opening of the Price Bid.

5. Any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with Competent Authority, as specified in Annexure-C of order F.No.6/18/2019-PPD dated 23-July-2020 and bidder must comply with all provisions mentioned in the order. A self-declaration with respect to above order must be submitted.

6. **Preference to Make In India products (For bids less than 200 Crore)**: Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a Class 1 local supplier is denoted in the bid document 50%. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted. In case the bid value is more than Rs 10 Crore, the declaration relating to percentage of local content shall be certified by the statutory auditor or cost auditor, if the OEM is a company and by a practicing cost accountant or a chartered accountant for OEMs other than companies as guideline issued by Department of Pharmaceuticals vide Ref. 31026/36/2016-MD dtd 16.02.2021. **Only Class-I and Class-II Local suppliers as per guideline issued by Department of Pharmaceuticals vide Ref. 31026/36/2016-MD dtd 16.02.2021 will be eligible to bid.** Non - Local suppliers as per MII guideline issued by Department of Pharmaceuticals vide Ref. 31026/36/2016-MD dtd 16.02.2021 are not eligible to participate. In case Buyer has selected Purchase preference to Micro and Small Enterprises clause in the bid, the same will get precedence over this clause.

7. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders/Resellers are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE firm has/have quoted price within L-1+ 15% of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for percentage of 25% of total value.

PROFORMA 'A'

PROFORMA FOR PERFORMANCE STATEMENT

(For the period of last five years, as applicable)

TE No. : _____

Date of Bid Opening : _____

Name and address of the Bidder : _____

Name and address of the Manufacturer : _____

Order placed by (full address)	Order no. and date ##	Description (Model no.) and quantity	Value of order (Rs.)	Consignee	Date of Delivery Period			Have the goods been functioning satisfactorily (attach documentary proof)**
					Contract	Actual	Reasons for Delay if Any	
1	2	3	4	5	6	7	8	9

We hereby certify that the details of all orders received in last 5 years, as applicable, of quoted equipment (including AIIMS, PGIMER, JIPMER, RML Hospital, Safdarjung Hospital, Institute of National importance) has been furnished. We hereby further certify that if at any time, information furnished by us is proved to be false or incorrect; we are liable for any action as deemed fit by the purchaser in addition to forfeiture of the Bid Security.

Name_____

Business Address_____

Signature of Bidder_____

Place: _____ Seal of the Bidder_____

** The documentary proof will be a latest certificate from the consignee/end user with cross-reference of order no. and date

The bidders are requested to submit the purchase order copies for the specific model quoted along with the Techno-commercial Bid.

SECTION –IX

BID FORM

To
CEO
HLL Infra Tech Services Limited
B-14A, Sector-62
Noida – 201 307

Ref. Your TE No. _____due for opening on _____

We, the undersigned have examined the above mentioned bidding document, including amendment/corrigendum (*if any*), the receipt of which is hereby confirmed. We now offer to supply and deliver _____ in conformity with your above referred document for the sum as shown in the Price Schedules attached herewith and made part of this bid. If our bid is accepted, we undertake to supply the goods and perform the services as mentioned in the bidding documents, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our bid is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of "General Conditions Contract", Section - IV read with modification, if any "Special Conditions of Contract", in Section - V, for due performance of the contract.

We agree to keep our bid valid for acceptance as required in the "General Instruction to Bidders", read with modification, if any in "Special Instructions to Bidders", Section – III or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this bid up to the aforesaid period and this bid may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this bid read with your written acceptance thereof within the aforesaid period shall constitute a binding contract between us.

We further understand that you are not bound to accept the lowest or any bid you may receive against your above-referred advertised tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Central Govt. Ministries/Departments/Hospitals/Institutes.

We confirm that we fully agree to the terms and conditions specified in above mentioned bidding document, including amendment/ corrigendum if any**.**

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

Name_____

Business Address_____

Place: _____ Signature of Bidder_____

Date: _____ Seal of the Bidder_____

SECTION - X

PRICE SCHEDULE

Price to be filled in the relevant field strictly as per the Price Bid Format provided in the e-tender portal 'https://etenders.gov.in/eprocure/app' under the Tender ID as per terms of the tender enquiry.

The instructions mentioned in the Price Bid Format are to be read and followed by the participating bidders while filling the Price Bid.

SECTION – XI

CHECK LIST

The bidders should furnish specific answers to all the questions/issues mentioned in the Checklist detailed below:

Name of Bidder: _____

Name of Manufacturer: _____

Sl. No.	Activity	Yes/ No/ NA	Page No. of the Bids submitted	Remarks
1. a.	Have you enclosed Bid Security of required amount for the quoted schedules?			
b.	In case Bid Security is furnished in the form of Bank Guarantee, has it been furnished as per standard format of the bidding document?			
c.	In case Bank Guarantee is furnished, have you kept its validity 45 days beyond the validity of Techno Commercial Bid?			
2.a.	Are you exempted for furnishing bid security being MSE as defined in MSE procurement policy issued by department of MSME.			
b.	If yes, have you enclosed certificate of registration issued by department of MSME.			
c.	Does such certificate clearly mention the quoted item?			
3. a.	Have you enclosed duly filled bid form as per bidding document?			
b.	Have you enclosed Power of Attorney in favour of the signatory?			
4. a.	Have you enclosed clause-by-clause technical compliance statement for the quoted goods vis-à-vis the Technical specifications?			
b.	In case of Technical deviations in the compliance statement, have you identified and marked the deviations?			
5. a.	Have you submitted satisfactory performance certificate as per the Proforma for performance statement given in the bidding document?			
b.	Have you submitted the documentary proof that goods have been functioning Satisfactorily?			
c.	Have you submitted latest purchase order copies?			

Sl. No.	Activity	Yes/ No/ NA	Page No. of the Bids submitted	Remarks
6.	Have you submitted Manufacturer's Authorization Certificate as per bidding document?			
7.a.	Have you quoted prices of goods, turnkey (if any), CAMC etc. in the Price Schedule as per bidding document?			
b.	If the ATE calls for buy back, have you quoted buy back prices along with applicable GST?			
8.	Have you kept validity of 270 days from the Techno Commercial Bid Opening date as per the bidding document?			
9. a.	In case of Indian Bidder, have you furnished GST No.?			
10.	Have you intimated the name and full address of your Banker (s) along with your Account Number, IFSC Code etc.?			
11.	Have you furnished documents establishing your eligibility & qualification criteria as per bidding documents?			
12	Have you accepted all the terms and conditions of this bidding document?			

N.B.

1. All pages of the Bid should be page numbered and indexed.
2. The Bidder may go through the checklist and ensure that all the documents/ confirmations listed above are enclosed in the bid and no column is left blank. If any column is not applicable, it may be filled up as NA.
2. It is the responsibility of bidder to go through the bidding document to ensure furnishing all required documents in addition to above, if any.
3. Wherever necessary and applicable, the bidders shall enclose certified copy as documentary proof/ evidence to substantiate the corresponding statement.
4. In case a bidders furnishes a wrong or evasive answer against any of the question/issues mentioned in the Checklist, its bids will be liable to be ignored.

Name_____

Business Address_____

Place: _____ Signature of Bidder_____

Date: _____ Seal of the Bidder_____

SECTION – XII

BANK GUARANTEE FORM FOR BID SECURITY

Whereas _____ (Name and address of the Bidder)
(*Hereinafter called the "Bidders"*)
Has submitted its Bid dated _____ for the supply of _____
(Hereinafter called the "Bid")
Against the purchaser's ATE No. _____

Know all persons by these presents that we _____ having our registered office at _____
(Hereinafter called the "Bank")
Are bound unto HLL Infra Tech Services Ltd., Noida (for and on behalf of AIIMS)
(Hereinafter called the "Purchaser)
In the sum of _____ for which payment will and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this _____day of _____ 20____.

The conditions of this obligation are:

1) If the Bidder withdraws or amends, impairs or derogates from the bid in any respect within the period of validity of this Bid.
2) If the Bidder having been notified of the acceptance of his Bid by the Purchaser during the period of its validity:-

    a. if the bidder fails or refuses to furnish the performance security for the due performance of the contract or
    b. if the bidder fails or refuses to accept/execute the contract or
    c. if it comes to notice at any time, that the information/documents furnished in its Bid are false or incorrect or misleading or forged.

We undertake to pay the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due to it owing to the occurrence of one or more the three conditions, specifying the occurred condition(s).

This guarantee will remain in force upto _____ *(insert date of additional forty-five days after Bid validity)* and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature with date of the authorized officer of the Bank)
.....
(Name and designation of the Officer)
.....
.....
(Seal, name & address of the Bank and address of the Branch)

SECTION XIII

MANUFACTURER'S AUTHORISATION FORM

The CEO
HLL Infra Tech Services Limited
B-14A Sector-62
Noida, Uttar Pradesh-201307

Dear Sir,

Ref: Your TE document No _____ dated _____

We, _____ who are proven and reputable manufacturers of_____(*name and description of the goods offered in the bid*) having factories at_____, hereby authorise Messrs_____(*name and address of the agent*) to submit a bid, process the same further and enter into a contract with you against your requirement as contained in the above referred TE documents for the above goods manufactured by us.

We also state that we are not participating directly in this bid for the following reason(s):
_____*(please provide reason here).*

We further confirm that Messrs. _____ (*name and address of the above agent*) 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 TE documents for the above goods manufactured by us.

We also hereby extend our full warranty, CAMC as applicable as per clause 15 of the General Conditions of Contract, read with modification, if any, in the Special Conditions of Contract for the goods and services offered for supply by the above firm against this TE document.

We also hereby confirm that we would be responsible for the satisfactory execution of contract placed on the authorized agent and the spares for the equipment shall be available for at least 10 years from the date of supply of equipment.

We also confirm that the price quoted by our agent shall not exceed the price which we would have quoted directly"

Yours faithfully,

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

Note:

1. *This letter of authorisation should be on the letter head of the manufacturing firm and should be signed by a person competent and having the power of attorney to legally bind the manufacturer.*
2. *Original letter may be sent.*

SECTION – XIV

BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/CAMC SECURITY

WHEREAS _____ (Name and address of the supplier) (Hereinafter called "the supplier")

has undertaken, in pursuance of Purchase Order/ Contract no_____ dated _____ to supply _____ (*insert description of goods and services*) (Hereinafter called "the Contract").

AND WHEREAS it has been stipulated by you in the said contract that the supplier shall furnish you with a bank guarantee by a scheduled commercial bank recognized by you for the sum specified therein as security for compliance with its obligations in accordance with the contract;

AND WHEREAS we have agreed to give the supplier such a bank guarantee;

NOW THEREFORE we hereby affirm that we are guarantors and responsible to you, on behalf of the supplier, up to a total of _____ (insert *Amount of the guarantee in words and figures)*, and we undertake to pay you, upon your first written demand declaring the supplier to be in default under the contract and without cavil or argument, any sum or sums within the limits of (amount of guarantee) as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

We hereby waive the necessity of your demanding the said debt from the supplier before presenting us with the demand.

We further agree that no change or addition to or other modification of the terms of the contract to be performed there under or of any of the contract documents which may be made between you and the supplier shall in any way release us from any liability under this guarantee and we hereby waive notice of any such change, addition or modification.

This guarantee will remain in force upto _____*(insert date of additional Ninety days after completion of satisfactorily warranty period in case of Performance Security and additional Ninety days after completion of satisfactorily CAMC period in case of CAMC security)* and any demand in respect thereof should reach the Bank not later than the above date.

.....
(Signature with date of the authorised officer of the Bank)
.....
Name and designation of the officer
.....
.....
Seal, name & address of the Bank and address of the Branch

SECTION – XV

CONTRACT FORM - A

CONTRACT FORM FOR SUPPLY, INSTALLATION, COMMISSIONING, HANDING OVER, TRIAL RUN, TRAINING OF OPERATORS & WARRANTY OF GOODS

ALL INDIA INSTITUTE OF MEDICAL SCIENCES
(Insert Name of concerned Centre/ Hospital/ Department/ Section)
ANSARI NAGAR, NEW DELHI-110 029

Contract No_____ dated_____

To _____
(*insert name of Supplier with address*)

This is in continuation to this office's Notification of Award No_____ dated _____

1. Name & address of the Supplier: _____
2. ATE No of Bidding Documents: _____and subsequent Amendment No_____, dated_____ (if any), issued by the Purchaser
3. Supplier's Bid No_____ dated_____ and subsequent communication(s) No_____ dated _____ (if any), exchanged between the supplier and the purchaser in connection with this Bidding Document.
4. In addition to this Contract Form, the following documents etc, which are included in the Bidding Documents mentioned under paragraphs 2 and 3 above, shall also be deemed to form and be read and construed as integral part of this contract:

   (i) General Conditions of Contract;
   (ii) Special Conditions of Contract;
   (iii) List of Requirements;
   (iv) Technical Specifications;
   (v) Quality Control Requirements;
   (vi) Bid Form furnished by the supplier;
   (vii) Price Schedule(s) furnished by the supplier in its Bid;
   (viii) Manufacturers' Authorisation Form (if applicable);
   (ix) Purchaser's Notification of Award

   Note: The words and expressions used in this contract shall have the same meanings as are respectively assigned to them in the conditions of contract referred to above. Further, the definitions and abbreviations incorporated under clause 1 of Section II – "General Instructions to Bidders" of the Bidding Document shall also apply to this contract.

5. Some terms, conditions, stipulations etc. out of the above-referred documents are reproduced below for ready reference:

   (i) Brief particulars of the goods and services which shall be supplied/ provided by the supplier are as under:

Schedule No.	Brief description of of goods/services	Accounting unit	Quantity to be supplied	Unit Price	Total price	Terms of delivery

Any other additional services (if applicable) and cost thereof: _____
Total value (in figure) _____ (In words) _____

(ii) Delivery schedule:_____

(iii) Details of Performance Security required:_____

(v) Destination and despatch instructions:_____

(vi) Consignee: _____

6. Warranty clause:

7. Payment terms:

_____
(Signature, name and designation of the Purchaser authorised official**)**
For and on behalf of Director, AIIMS

Received and accepted this contract

(Signature, name and address of the supplier's executive duly authorised to sign on behalf of the supplier)

For and on behalf of _____
(*Insert Name and address of the supplier*)

(Seal of the Supplier)
Date: _____
Place: _____

CONTRACT FORM – B

CONTRACT FORM FOR COMPREHENSIVE ANNUAL MAINTENANCE CONTRACT (CAMC)

Comprehensive Annual Maintenance Contract No._____
Dated_____

Between

Director, AIIMS

And

(*insert Name & Address of the Supplier*)

Reference: Contract/ Purchase Order No_____ dated_____ for supply, installation& commissioning, Training and CAMC of goods& services.

In continuation to the above referred Contract/Purchase Order, the Contract of Comprehensive Annual Maintenance Contract is hereby concluded as under: -

1	2	3	4					5	6
Items Sr. No./ RFx no.	Brief description of goods	Quantity (Nos.)	CAMC Cost for Each Unit year wise in Rs					GST Value in Rs (___ %)	Total CAMC Cost for 5 Years with GST (3) X[(4a+4b+4c+4d+4e) + (5)]
			1st	2nd	3rd	4th	5th		
			a	b	c	d	e		

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

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

c) The cost of Comprehensive Annual Maintenance Contract (CAMC) which includes preventive maintenance, labour and spares, after satisfactory completion of Warranty period as contained in the above referred contract on yearly basis for complete equipment as per contract including Turnkey Work(if any).

d) There will be 95% uptime warranty during CAMC period on 24 (hrs) X 7 (days) X 365 (days) basis, with penalty, to extend CAMC period by double the downtime period and other penalty as per contract.

e) During CAMC period, the supplier shall visit at each consignee's site for preventive maintenance including testing and calibration as per the manufacturer's service/ technical/operational manual. The supplier shall visit each consignee site as recommended in the manufacturer's manual, but at least once in 3 months commencing from the date of the successful completion of warranty period for preventive maintenance of the goods.

f) All software and hardware updates should be provided without any extra cost during CAMC period.

g) The Bank Guarantee valid till _____ [(fill the date) 3 months after expiry of entire CAMC period] for an amount of Rs. _____ [(fill amount) equivalent to 2.5% of the cost of the equipment as per contract] shall be furnished in the prescribed format given in Section XIV of the Bidding Document, along with the signed copy of CAMC within a period of 21 (twenty one) days of start of CAMC failing which the Performance Security (10% of the contract value) submitted shall be en-cashed payable to the Purchaser/Consignee.

h) If there is any lapse in the performance of the CAMC as per contract, the proceeds Annual CAMC Bank Guarantee shall be forfeited and their bad performance will be considered while awarding future contracts.

i) Payment terms: The payment of CAMC will be made against the bills raised by the supplier on six monthly basis after satisfactory completion of said period, duly certified by the concerned User Department. The payment will be made in Indian Rupees.

_____
(Signature, name and designation of the Store Officer/ASO of the Purchaser**)**

_____
(Signature, name and designation of the F&CAO of the Purchaser)
For and on behalf of Director, AIIMS

(Seal of the Purchaser)
Date: _____
Place: _____

Received and accepted this contract

(Signature, name and address of the supplier's executive duly authorised to sign on behalf of the supplier)

For and on behalf of _____
(*Insert Name and address of the supplier*)

(Seal of the Supplier)
Date: _____
Place: _____

Note:- The contract will be prepared on Non-judicial Stamp paper(currently of value of Rs. 100).

SECTION – XVI

CONSIGNEE RECEIPT CERTIFICATE

(To be given by consignee's authorized representative)

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

1) Contract/Purchase Order No. & date: _____

2) Supplier's Name: _____

3) Consignee's Name & Address: _____

4) Name of the item supplied: _____

5) Quantity Supplied: _____

6) Date of Receipt by the Consignee: _____

7) Signature of Authorized Representative of Consignee with date:_____

8) Name and designation of Authorized Representative of Consignee:_____

9) Seal of the Consignee:_____

SECTION – XVII

CONSIGNEE ACCEPTANCE CERTIFICATE

(To be given by consignee's authorized representative)

This is to certify that the goods as detailed below have been received in good conditions along with all the standard and special accessories in accordance with the contract. The same has been installed and accepted.

1) Contract/Purchase Order No. & date:_____

2) Supplier's Name:_____

3) Consignee's Name & Address: _____

4) Name of the item Supplied :_____

5) Quantity Supplied :_____

6) Date of Receipt by the Consignee :_____

7) Date of Installation/Commissioning and Acceptance of Equipment: _____

8) The supplier has fulfilled its contractual obligations satisfactorily

OR

The supplier has failed to fulfill its contractual obligations with regard to the following:

i)
ii)
iii)
iv)

9) The amount of recovery on account of failure of the supplier to meet his contractual obligations is_____ (here indicate the amount).

10) Signature of Authorized Representative of Consignee with date:_____

11) Name and designation of Authorized Representative of Consignee:_____

12) Seal of the Consignee:_____