

Offline- Tender

TENDER ENQUIRY DOCUMENT

FOR SUPPLY OF PHYSIOTHERAPY EQUIPMENTS

For & on behalf of

FOR

**KALPANA CHAWLA GOVT. MEDICAL
COLLEGE, KARNAL**

Tender Enquiry Document No.:
HSCC/KCGMC/Medical Items/2017/OFF/MC-04
Dated 24.03.2017

BY



HSCC (INDIA) LTD

(A GOVERNMENT OF INDIA ENTERPRISE)

Plot No. 6-A, Block-E, Sector-1, NOIDA (U.P.) – 201 301

PHONE: 0120-2540153

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**KALPANA CHAWLA GOVT. MEDICAL COLLEGE,
KARNAL, HARYANA
GOVT OF HARYANA**

Tender Enquiry No.: HSCC/KCGMC/Medical Items/2017/OFF/MC-04

Dated 24.03.2017

NOTICE INVITING TENDERS (NIT) - Offline

HSCC (India) Ltd. for and on behalf of Director General, Medical Education & Research, Panchkula, Govt. of Haryana invites **Off-line bids** from eligible bidders, in single stage two bid system for Supply, Testing & Handing-over of various **Physiotherapy Equipments at Kalpana Chawla Govt. Medical College, Karnal, Haryana:**

S. No.	Medical Equipment & Department
1.	Various Physiotherapy Equipments (Specifications & Quantity of various sizes given at last Page under "Technical Specifications")

For viewing, submission and other details please refer HSCC web site www.hsccltd.com. Bidders may also visit www.kcgmckarnal.org for viewing the Tender Document only.

Complete set of Bid Documents have been made available at HSCC web site www.hsccltd.com, (URL: www.hsccltd.co.in) from **24.03.2017 to 17.04.2017**. Prospective bidders are advised to regularly visit / scan through above referred HSCC website, as corrigendum/modification/amendments etc, if any, shall only be notified on this portal and no separate advertisement / correspondences shall be made for this.

**CHIEF GENERAL MANAGER, HSCC (I) Ltd.
For & on behalf of DGMR, Panchkula.**

**KALPANA CHAWLA GOVT. MEDICAL COLLEGE,
KARNAL, HARYANA
GOVT OF HARYANA**

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Item No.	Name of the Article	Qty	EMD (in INR)
1	Interferential Therapy Unit with Vacuum	1	14,000/-
2	Ultrasound Therapy Unit	2	16,000/-
3	Resistive and Capacitive Device	2	40,000/-
4	Functional Electrical Stimulator with Software	1	6,000/-
5	Shockwave Therapy Unit	1	32,000/-
6	Microwave Diathermy Unit	2	17,000/-
7	Cervical Traction Unit	2	14,800/-
8	Lumbar & Cervical Traction Unit	2	25,600/-
9	Wax Bath	1	4,200/-
10	Hydrocollator Unit	1	5,000/-
11	Digital Shoulder Wheel	1	3,800/-

Sl. No.	Description	Schedule
i.	On line sale of tender enquiry documents	24.03.2017 to 17.04.2017 upto 14:30 hrs
ii.	Place of sale of Tender Enquiry Documents	HSCC (India) Ltd, Plot No. 6-A, Block-E, Sector-1, Noida (U.P)-201301
iii.	Cost of the Tender Enquiry Document	INR 500/-
iv.	Pre Tender Meeting Date & Time	05.04.2017 , 11:00 hrs. IST
v.	Pre Tender Meeting Venue	Same as (ii) above
vi.	Closing date & time for receipt of Tender	17.04.2017 , 15:00 hrs IST
vii.	Time and date of opening of Techno – Commercial tenders	17.04.2017 , 15:30 hrs IST
viii.	Venue of Opening of Techno Commercial Tender	Same as Sr no. (ii) above

- TE Document fee Rs. **500/-** would be set in the form of account payee Demand Draft/Pay Order/Cashier's Cheque/Banker's Cheque drawn on a scheduled Bank in India/ cash in favour of "**HSCC (India) Ltd**" payable at New Delhi/ Noida.
- Bidder shall download the TE documents from the web site <http://eprocure.gov.in/cppp>, www.hsccltd.com, and submit its tender by utilizing the downloaded document, along with the required non-refundable fee as mentioned in Para 1 above.
- All prospective bidders may attend the Pre Tender meeting. The venue, date and time indicated above.
- Bidder shall ensure that their bid, complete in all respects, are dropped in the Tender Box located at **HSCC (India) Ltd, Plot No. 6-A, Block-E, Sector-1, NOIDA (U.P.) – 201 301** on or before the closing date and time, failing which the bid will be treated as late and rejected.
- In the event of any of the above mentioned dates being declared as a holiday / closed day for the purchase organisation, the tenders will be sold/received/opened on the next working day at the appointed time.
- The TE Document is not transferable.

7. **Bidder qualification Criteria:** Bidder should have turnover **Rs. 25 lakhs** per annum during last three financial years (i.e. 2013-14, 2014-15 & 2015-16)

8. Sealing of bid:

Bidders are advised to prepare separate envelope for individual item

Envelop I: a. **Bid Security (EMD)/ Registration certificate for the item quoted issued by NSIC/ DGS&D for exemption of EMD and bid document fee**

b. **Tender Document fee @ Rs. 500/-**

Envelop II: a. **Tender Form duly filled and signed**

b. **Turnover certificate during last three financial years (i.e. 2013-14, 2014-15 & 2015-16 certified by Chartered Accountant.**

c. **Technical compliance sheet with technical data sheet / leaflets**

Envelop III: Price Bid /Financial Bid

These above envelopes I, II & III shall be further sealed in one outer envelope super scribing name of item, item no. and TE document No.

9. **Rejection of bid:**

- If EMD & tender document fee / **Registration certificate for the item quoted issued by NSIC/ DGS&D for exemption of EMD and bid document fee**, as mentioned in the tender document not found in envelop-I, their bid will be rejected and Envelop –II & III will not open by the committee.

**CHIEF GENERAL MANAGER HSCC (I) Ltd.
For & on behalf of DGMR, Panchkula.**

Terms & conditions:-

1. **Period of Validity:** A bid shall remain valid for **120 days** from the date of opening of bid.
2. **EMD:** Tenderer shall furnish along with its tender, earnest money for amount as shown in the NIT. The earnest money shall be furnished in any one of the following forms only:
 - i) Account Payee Demand Draft
 - ii) Banker's cheque and
 - iii) Bank Guarantee

The demand draft or banker's cheque shall be drawn on any commercial bank in India or country of the tenderer, in favour of the "HSCC (India) Ltd" payable at New Delhi/Noida. In case of bank guarantee, the same is to be provided from any commercial bank in India (as per the format in tender enquiry document). EMD to be valid for 165 days from the initial date of opening of the bid.

The tenderer who are currently registered and, also, will continue to remain registered during the tender validity period with Directorate General of Supplies & Disposals or with National Small Industries Corporation for the specific goods as per tender enquiry specification shall be eligible for exemption from EMD. Vague stipulations in the Registration Certificate such as "to customers' specification" etc. will not be acceptable for exemption from furnishing of earnest money. In case the tenderer falls in these categories, it should furnish copy of its valid registration details in its bid (with DGS&D or NSIC, as the case may be)
3. **Rate:** (a) The Prices should be quoted in Indian Rupees only. The rates quoted by the bidder shall be fixed for the duration of the contract and shall not be subject to adjustment on any account. All duties, taxes and other levies payable by the contractor under the contract shall be included in the quoted price. The rate quoted must be inclusive of Excise Duty, Packing & Forwarding charges, Sales Tax, Freight charges and Insurance charges.
(b) CMC price has to be quoted as per the format given in the bid.
4. **Sales Tax/ Vat:** Should be mentioned on price format.
5. **Evaluation:** The tenderers will be evaluated and compared separately for each item. The tenderer has to quote for the complete requirement given under the item. Comparison of the responsive tenders shall be carried out on all inclusive quoted price at Consignee site basis, inclusive of applicable taxes, duties, incidental services. The quoted CMC prices, **if applicable**, will also be added for comparison & ranking purpose for evaluation. If, in the price structure quoted by a tenderer, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly
6. The bid submitted by MSME bidders shall be dealt as per the prevailing laws
7. **Name of Consignee:** The Director
Kalpana Chawla Govt. Medical College,
KARNAL (Haryana)
Name of the Purchaser : Director General, Medical Education & Research, Panchkula, Govt. of
Haryana
Name of the Consultant: HSCC (I) Ltd. Plot No. 6-A, Block-E, Sector-1, NOIDA (U.P.)
8. **Delivery Period: 20 days from date of Notification of Award/Purchaser order at consignee site.** The date of delivery will be the date of delivery at consignee site.
9. **Installation and commissioning:** Installation and commissioning, if applicable, shall be done **within 05 days** of receipt of the stores/ goods at site or within two weeks of handing over the site for installation, whichever is later.
10. **Despatch Clearance:** No goods shall be despatched before issue of Despatch note issued by HSCC/KCGMC, failing which entire responsibility shall rest on the supplier.
11. **Warranty:** Warranty of equipments will be two years (on site) from date of commissioning & handing over to KCGMC/ Client.

12. **Performance Security:** Within fifteen (15) days from date of the issue of notification of award by the Purchaser/Consignee, the supplier, shall furnish performance security (as per the format in tender enquiry document) to the Purchaser/Consignee for an amount equal to ten percent (10%) 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, initially valid for a period of minimum 26 months (as applicable warranty period of 2 years) from the date of Notification of Award.
13. The Notification of Award/Purchaser order Constitutes the formation of legal binding contract between the parties, scope of supply will be governed by the technical specifications & other terms & conditions of the aforesaid Tender Enquiry document and its amendments /corrigendum (if any) issued. After opening of Price Bids, the Lowest Bidder (L1) shall provide past purchase order/s & price justification/s.
14. The Time taken on the part of HSCC / KCGMC on account of despatch clearance will not be counted for delivery period /installation period.

15. Payment Terms:

- (i) 80% payment on submission of following document:-
- Copy of Purchase order.
 - Consignee receipt in original issued by KCGMC/HSCC.
 - Invoice in favour of "The Director, KCGMC through HSCC" for 80% claim
 - Warranty Certificate.
- (ii) 20% payment on submission of following documents:
- Copy of Purchase order.
 - Copy Consignee receipt issued by KCGMC/ Client.
 - Installation & commissioning or final acceptance certificate issued by KCGMC/HSCC.
 - Invoice in favour of "The Director, KCGMC through HSCC" for 20% claim.
16. Supply shall be accepted only after inspection and approval by the concerned authority at KCGMC.
17. **Liquidated Damage:** If the supplier fails to deliver any or all of the goods or fails to perform the services within the time frame(s) incorporated in the contract, the Purchaser/Consignee shall, without prejudice to other rights and remedies available to the Purchaser/Consignee 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 and/or services until actual delivery or performance subject to a maximum of 10% of the contract price. Once the maximum is reached Purchaser/Consignee may consider termination of the contract.
18. **Insurance:** 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:
- 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 ware house to ware house (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.

19. Termination of Contract

- 19.1 The Purchaser/Consignee , without prejudice to any other contractual rights and remedies available to it (the Purchaser/Consignee), may, by written notice 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/Consignee
- 19.2 In the event of the Purchaser/Consignee terminates the contract in whole or in part, pursuant to sub-clause 19.1 above, the Purchaser/Consignee may procure goods and/or services similar to those cancelled, with such terms and conditions and in such manner as it deems fit and the supplier shall be liable to the Purchaser/Consignee for the extra expenditure, if any, incurred by the Purchaser/Consignee for arranging such procurement.

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

20. Resolution of disputes

- 20.1 If dispute or difference of any kind shall arise between the Purchaser/Consignee 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.
- 20.2 If the parties fail to resolve their dispute or difference by such mutual consultation within twenty-one days of its occurrence, then, such dispute or difference shall be referred to the sole arbitrator appointed by **Director General Medical Education and Research, Govt. Of Haryana, Panchkula**. 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
- 20.3 Venue/seat of Arbitration: The venue of arbitration shall be at New Delhi, India.

21. Applicable Law and Jurisdiction

The contract shall be governed by and interpreted in accordance with the laws of India for the time being in force. The contract shall be subject to the jurisdiction of Delhi court to the exclusion of all other courts.

22. Delivery/Delay in the supplier's performance

- 22.1 The supplier shall deliver of the goods and perform the services under the contract within the time schedule specified in the documents. 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 not later than the date (s) as specified in the contract.
- 22.2 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 actions:
- (i) imposition of liquidated damages,
 - (ii) forfeiture of its performance security and
 - (iii) termination of the contract for default.
- 23 The bid submitted by the bidder should be accompanied with Power of Attorney in favour of signatory of TE documents.
- 24 Notwithstanding the above, the Purchaser reserves the right to accept or reject any quotations and to cancel the bidding process and reject all quotations at any time prior to the award of contract.

TENDER FORM

Date:

To,

Chief General Manager, HSCC
For & on Behalf of Director General Medical Education & Research (DGMER),
Govt. Of Haryana,
Panchkula

Ref. TE document no.

Item no:-

We, the undersigned have examined the above mentioned TE document, including all amendment/corrigendum issued the receipt of which is hereby confirmed. We now offer to supply and deliver, installation, commissioning _____ (*Description of goods and services*) in conformity with your above referred document terms for the sum of ____ (**NOT TO MENTION ANY PRICE DURING SUBMISSION IN TECHNICAL OFFER**) _____ (total tender amount in figures and words), as shown in the price schedule(s), attached herewith and made part of this tender.

If our tender is accepted, we undertake to supply the goods and perform the services as mentioned above, in accordance with the delivery schedule specified in the List of Requirements.

We further confirm that, if our tender is accepted, we shall provide you with a performance security of required amount in an acceptable form in terms of tender condition clause 12, for due performance of the contract.

We agree to keep our tender valid for acceptance as required in the tender clause condition 1, or for subsequently extended period, if any, agreed to by us. We also accordingly confirm to abide by this tender up to the aforesaid period and this tender may be accepted any time before the expiry of the aforesaid period. We further confirm that, until a formal contract is executed, this tender 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 tender you may receive against your above-referred tender enquiry.

We confirm that we do not stand deregistered/banned/blacklisted by any Govt. Authorities.

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

We are fully agreed all the terms and conditions of TE document including amendment/ corrigendum /technical specification issued before opening of bid. In case, anywhere any conditional terms found in our bid, the same shall be treated as deleted/cancelled/ withdrawn from our bid. Whenever there is a conflict, the acceptance of all terms and conditions of TE document in the tender form shall prevail only.

(Signature with date)

(Name and designation) Duly authorised to sign tender for and on behalf of

Price Bid

Item no:

Name of item

Sr no.	Description of Goods	Make	Model no.	Qty.	Unit Price Rs.	Rate of VAT/Sales Tax % added in Unit price	Total Unit Amount (in Rs.).	Total Amount (in Rs.)
				a	b	c	d = b + c	e = d x a
1.								

Amount in words: _____

Note: 1. Sales tax/VAT should be mentioned separately.

2. Unit price shall include all packing & forwarding, freight, insurance charges from ware house to consignee, local tax, duties, two year warranty, VAT/ taxes and other levies payable by the supplier under the contract.

Authorised Signatory
Name of the Company with Address

PRICE SCHEDULE FOR ANNUAL COMPREHENSIVE MAINTENANCE CONTRACT AFTER WARRANTY PERIOD

1	2	3	4					5
Item no.	BRIEF DESCRIPTION OF GOODS	QUANTITY. (Nos.)	Annual Comprehensive Maintenance Contract Cost for Each Unit year wise* (Inclusive of service tax) INR					Total Annual Comprehensive Maintenance Contract Cost for 5 Years [3 x (4a+4b+4c+4d+4e)] (Inclusive of service tax) INR
			1 st	2 nd	3 rd	4 th	5 th	
			a	b	c	d	e	

* After completion of warranty period

Authorised Signatory
Name of the Company with Address

BANK GUARANTEE FORM FOR EMD

To
HSCC I Ltd.
E-6A, Sector-1, Noida -201301

Whereas _____ (hereinafter called the “Tenderer”) has submitted its quotation dated _____ for the supply of _____ (hereinafter called the “tender”) against the purchaser’s tender enquiry No. _____ Know all persons by these presents that we _____ of _____ (Hereinafter called the “Bank”) having our registered office at _____ are bound unto _____ (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 Tenderer withdraws or amends, impairs or derogates from the tender in any respect within the period of validity of this tender.

(2) If the Tenderer having been notified of the acceptance of his tender by the Purchaser during the period of its validity:-

- a) fails or refuses to furnish the performance security for the due performance of the contract.
- or
- b) fails or refuses to accept/execute the contract.
- or
- c) if it comes to notice that the information/documents furnished in its tender is incorrect, false, 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 both the two conditions, specifying the occurred condition(s).

This guarantee will remain in force for a period of forty-five days after the period of tender validity and any demand in respect thereof should reach the Bank not later than the above date.

(Signature of the authorised officer of the Bank)

Name and designation of the officer

Seal, name & address of the Bank and address of the Branch



**BANK GUARANTEE FORM FOR PERFORMANCE SECURITY/
CMC* SECURITY**

To
Chief General Manager, HSCC I Ltd.
For & on Behalf of Director General Medical Education & Research (DGMER),
Govt. Of Haryana,
Panchkula

WHEREAS _____ (Name and address of the supplier) (Hereinafter called “the supplier”) has undertaken, in pursuance of contract no _____ dated _____ to supply (description of goods and services) (herein after 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 recognised 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. _____ (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 shall be valid up to 26 months from the date of Notification of Award i.e. up to -----
----- (indicate date)

For CMC the BG shall be addressed to the Consignee

.....
(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

CONSIGNEE RECEIPT CERTIFICATE
(To be given by consignee's authorized representative)

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

- 1) Contract No. & date : _____
- 2) Supplier's Name : _____
- 3) Consignee's Name & Address
with telephone No. & Fax No. : _____
- 4) Name of the item supplied : _____
- 5) Quantity Supplied : _____
- 6) Date of Receipt by the Consignee : _____
- 7) Name and designation of
Authorized Representative of
Consignee : _____
- 8) Signature of Authorized
Representative of Consignee with
date : _____
- 9) Seal of the Consignee : _____

Proforma of Final Acceptance Certificate by the Consignee

No _____

Date _____

To

M/s _____

Subject: Certificate of commissioning of equipment/plant.

This is to certify that the equipment(s)/plant(s) as detailed below has/have been received in good conditions along with all the standard and special accessories and a set of spares (subject to remarks in Para no.02) in accordance with the contract/technical specifications. The same has been installed and commissioned.

- (a) Contract No _____ dated _____
- (b) Description of the equipment(s)/plants: _____
- (c) Equipment(s)/ plant(s) nos.: _____
- (d) Quantity: _____
- (e) Bill of Loading/Air Way Bill/Railway Receipt/ Goods Consignment Note no _____ dated _____
- (f) Name of the vessel/Transporters: _____
- (g) Name of the Consignee: _____
- (h) Date of commissioning and proving test: _____

Details of accessories/spares not yet supplied and recoveries to be made on that account.

Sl. No.	Description of Item	Quantity	Amount to be recovered No.
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The proving test has been done to our entire satisfaction and operators have been trained to operate the equipment(s)/plant(s).

The supplier has fulfilled its contractual obligations satisfactorily ## or

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

He has not adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specifications'.

He has not supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the period specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).

The supplier as specified in the contract has not done training of personnel.

The extent of delay for each of the activities to be performed by the supplier in terms of the contract is

The amount of recovery on account of non-supply of accessories and spares is given under Para no.02.

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

Signature

Name

Designation with stamp

Explanatory notes for filling up the certificate:

- i. He has adhered to the time schedule specified in the contract in dispatching the documents/drawings pursuant to 'Technical Specification'.
- ii. He has supervised the commissioning of the equipment(s)/plant(s) in time, i.e. within the time specified in the contract from date of intimation by the Purchaser/Consignee in respect of the installation of the equipment(s)/plant(s).
- iii. Training of personnel has been done by the supplier as specified in the contract.
- iv. In the event of documents/drawings having not been supplied or installation and commissioning of the equipment(s)/plant(s) having been delayed on account of the supplier, the extent of delay should always be mentioned in clear terms.

TECHNICAL SPECIFICATIONS

Item No.	Name of the Article	Qty	EMD (in INR)
1	Interferential Therapy Unit with Vacuum	1	14,000/-
2	Ultrasound Therapy Unit	2	16,000/-
3	Resistive and Capacitive Device	2	40,000/-
4	Functional Electrical Stimulator with Software	1	6,000/-
5	Shockwave Therapy Unit	1	32,000/-
6	Microwave Diathermy Unit	2	17,000/-
7	Cervical Traction Unit	2	14,800/-
8	Lumbar & Cervical Traction Unit	2	25,600/-
9	Wax Bath	1	4,200/-
10	Hydrocollator Unit	1	5,000/-
11	Digital Shoulder Wheel	1	3,800/-

1. INTERFERENTIAL THERAPY UNIT WITH VACUUM

Approximately Specifications:

The Unit should have the following features:

- It should be a four channel electrotherapy with 4 channel Inbuilt Vacuum unit with provision of application of two or four channels for treatment of small as well as very large muscle groups and central-peripheral system.
- Should have facility of selecting correct parameters of each channel independently.
- The unit should have the facility of selecting different therapeutic currents simultaneously on different channels.
- **The unit should offer the following current forms:**
Two-pole interferential, Classical interferential, Isoplanar vector, Dipole vector, Dipole vector automatic, Russian stimulation, TENS Symmetrical biphasic pulsed current, TENS Asymmetrical biphasic pulsed current, TENS Burst, Rectangular Pulsed Current, Triangular pulsed current (IG30, IG50, IG100, IG150, IG30 alternating, IG50 alternating, IG100 alternating, IG150 alternating), Microcurrent, High voltage current, Diadynamic current (MF, DF, CP, CPid, LP), Medium-freq. interrupted direct current, Continuous (galvanic) direct current.
- Should have the facility of up-grading the firmware in future, at the installation site, through a memory card.
- Should have a large TFT Color display monitor.
- The display monitor should be scratch resistant.
- The display should be adjustable to ensure good visibility from all angles.
- The unit should be of the functional ergonomic design to be equally convenient to use by both left-and right-handed persons.
- Continuous monitoring and feedback watchdog facility to assure that unit will take appropriate measures to assure patient and user safety in case of any discrepancy.
- Pre-programmed protocols: Not less than fifty.
- Free programmable positions: Unlimited.
- Should have the facility of modifying and storing the stored protocols.
- Should have the stimulating intensity of 0-140 mA in Symmetrical and Asymmetrical TENS currents.
- Should have the facility of drawing s/d curves with the display of the same on screen and translating the same into parameters that should be used for stimulation.
- The unit should have IEC/CE Standard.

Equipment should be supplied with

- Trolley
- CVT (**Constant** Voltage Transformer)
- With complete accessories.

2. ULTRASOUND THERAPY UNIT

Approximately Specifications:

- The unit should Provide two forms of modulation:
 - Duty cycle modulation
 - Amplitude modulation to reduce the undesired intensity peaks.
- Should be supplied with Hands Free suction based Ultrasound treatment head.
- Should also be supplied with Multi-Frequency Treatment Ultrasound Head of Effective Radiating Area of 5.0 cm² as standard.
- Should have Help facility to assist the therapist.
- Unit should have colour TFT screen for display of the parameters.
- System should be upgradable in future.

Ultrasound Frequency	:	1 & 3 MHz
Ultrasound	:	Continuous and Pulsed
Pulse Frequency	:	16, 48, 100 Hz
Duty Cycle	:	5,10,20,50, 80,100
Number of Connections	:	02
Programmable Positions	:	Unlimited.

Should be International Safety Standards CE/TUV certified.

Equipment should be supplied with

- Trolley
- CVT (**Constant** Voltage Transformer)
- With complete accessories.

3. RESISTIVE & CAPACITIVE DEVICES

Approximately Specifications:

The unit should have the following features:-

1. The unit should be based on Electromagnetic System.
2. Modes : Continuous & Pulsed
3. Output Power : 20 - 300 Watts
4. Frequency : 480 KHz
5. Calculation of Impedance. : In real time
6. Impedance : In real time.
7. Temperature Sensor control
8. Display : LCD Touch screen
9. Program : Preset protocols for different indications.
10. Memory : Free memories for storing customized protocols.
11. Protection class : 1 B
12. IEC standard : IEC 601-1/CE
13. Should be supplied on with trolley
14. The unit should work on 230 VAC & 50 Hz.

Equipment should be supplied with

- CVT (**Constant** Voltage Transformer)
- With complete accessories.

4. FUNCTIONAL ELECTRICAL STIMULATOR WITH SOFTWARE

Approximately Specifications:

- Should be portable with EMG-triggered functional electrical stimulator.
- Should have Exclusive software showing patient control, degree of muscular strength and process.
- Should have Reinforcement of walking training through foot switch
- Should have Built-in 4 Modes
(EMG Muscle Exercise, Walking Exercise, Muscle Exercise and Pain Cure Modes)
- Should have Battery life indicator and automatic power 'off'
- Should have Lock system for the safety of patients
- Should have two output channels
- Should have frequency from 1Hz to 200 Hz.
- Should have pulse width 50 to 500 microseconds
- Should have Ramp Up/ Down 0.1 to 10 sec.
- Should have contraction / Relaxation Time 0.5 to 50 Sec.
- The Unit should work on battery as well as mains.

Equipment should be supplied with

- Trolley
- CVT (**Constant** Voltage Transformer)
- With complete accessories.

5. SHOCKWAVE THERAPY UNIT

Approximately Specifications:

- The unit should work on the Electro-Pneumatic based principal.
- The unit should have Ballistic shock wave generation system.
- The unit should have Pneumatic Pressure adjustable from 1.5 Bar to 4 Bar.
 - The unit Should have Multiple Pulse Operating Mode
 - Should have repetition rate for (Frequency) of 4,6,8,10,20 Hz (upto 2500 impulses)
 - Should have pre-setting of impulses with frequency.
 - Should have Operating Pressure Range of 1.5 to 4 bar
 - Should have Compressed Air Supply range of 5-6 bar
 - The unit should have high touch panel with LCD/LED display.
 - The unit should be mounted on customised Wheel Cart for easy transportation of the equipment along with the compartment for compressor.
 - The unit should be FDA approved.
 - Should have EN 60601-1,93/42 EEC certification.
 - The unit should work on 230 VAC & 50 Hz.
 - Should work in environment temperature of -10⁰C to 40⁰C.
 - Should bear the relative humidity between 10% to 95%.
 - Should have the provision to set the number of pulses from 500 to 2500 & should have an increase of 500 pulses per step.
 - Should be able to show the remaining pulses by blinking LEDs
 - For ease of operation & trouble shooting there should be provision on the unit to show the error in case of failure of hand piece/software/air pressure.
 - Should be supplied with:
 - (i) Control Unit
 - (ii) Radial Applicator

- (iii) Power Applicator
- (iv) Customised trolley with provision of cable holding & jet bottle holder.

Equipment should be supplied with

- Trolley
- CVT (**Constant** Voltage Transformer)
- With complete accessories.

6. MICROWAVE THERAPY UNIT

Approximately Specifications:

The unit should be of the following specification:

- Protection class : IIB
- IEC protection class : I Type BF
- Power Supply : 230 VAC, 50/60 Hz
- Working Frequency : 2450 MHz.
- Emission : Continuous and pulsed
- Continuous Output : upto 250W
- Pulsed Output : upto 1600W
- Duty-cycle : 25%,50%,75%
- Pulse Per second : 1 to 4
- Available protocols : Pre-set protocol with images(body pictures) for easy and adjustable during treatment
- Free Memories : For customized memories 80
- Display : Large coloured LCD Touch screen Display
- Treatment Time : 1to 30 min.
- Accessories: HF Cable, articulated Arm, Conical radiator, Large Field radiator, mains cable, manual.
- Should have international safety standards like CE/TUV.

Equipment should be supplied with

- Trolley
- CVT (**Constant** Voltage Transformer)
- With complete accessories.

7. CERVICAL TRACTION UNIT

Approximately Specifications:

The unit should have got traction force, base force, hold time & treatment time which can be individually adjustable and digitally displayed.

- The unit should have got traction force adjustable between 1.5-90 kg variable in steps of 0.5 upto 10 Kg and then in steps of 1 upto 90 Kg.
- The unit should have got traction hold time setting of 0-60 s (up to 10 s in steps of 2 s)
- The unit should have got base force settings of 1.5-90 Kg.
- The unit should have got base hold time setting of 0-60 s (up to 10 s in steps of 2 s).
- The unit should have got digital displays for traction force, hold time and treatment time.
- The unit should have got treatment time of 0-60 minutes (steps of 1 minute); with acoustic signal and automatic reduction of traction force.
- The unit should have got transition speed adjustable in 10 steps.

- LED bar display of transition speed and current instantaneous traction force for convenience.
- The unit should have got protection against accidental setting of force over 20 kg.
- The unit must have built in software package for service (test-routines)
- The unit should have got emergency stop switch.
- **The package should include the Traction unit, wall bar bracket for mounting the traction unit, padded neck harness complete with spreader bar.**

Technical Data:

- Power supply: 220 V / 50 Hz
- Voltage variation: max. $\pm 15\%$
- Power consumption: max. 0.22 A (at 220 V)
- Safety class; 1 type B according to EEC 601-1.

Equipment should be supplied with

- Trolley
- CVT (**Constant** Voltage Transformer)
- With complete accessories.

8. LUMBAR AND CERVICAL TRACTION UNIT

Approximately Specifications:

The Unit should have the following features:-

- Advanced software working on Windows CE platform
 - Power supply : 220V / 50 Hz
 - Power consumption : Min.150 Watt
 - Protection Class : 1 B- IEC 601-1
 - Dimensions and weight : 30-35 x 35-40 x10-12 cm , Approx. 12 Kg
 - Traction : Electronic
 - Mode : Continuous, intermittent, static, progressive, cycling
 - Maximum Force : Upto 90 Kg
 - Safety device : Remote control
 - Visualization : Touch Screen Colored LCD display
- The unit should have traction force adjustable upto 90 kg.
 - The unit should have remote control for emergency stop.
 - The unit should have wide range of preset protocols and 50 memories for customized protocols.
 - The unit should be supplied with Fixed Height Traction Couch of the same manufacturer, Strap 3 nos., Flexion Stool, Head Halter with spreader bar of same manufacturer
 - The unit should be supplied with Servo Voltage Stabilizer
 - The unit should have CE International Safety Standard.

Equipment should be supplied with

- Trolley
- CVT (**Constant** Voltage Transformer)
- With complete accessories.

9. PARAFFIN WAX BATH (IMPORTED)

Approximately Specifications:

The unit should have the following features:

- The Paraffin Bath should be operatable on the “Bain Maire” principal; the paraffin is heated indirectly by the heat transferred from a liquid (water).
- Quicker heating
- More even heat distribution
- Practically no temperature fluctuations in the Paraffin.
- The wax bath should be mobile and contains a stainless steel inner tank with splash cover.
- This bath should be equipped with an electric heating element with thermostatic Temperature control
- The wax bath should be idle for dipping treatments.
- Power Consumption : 2000 Watts.
- Tank Capacity : 30 Liters
- Heat-transfer Liquid : 10 Liters (Water)
- Temperature Range : 30 - 90 deg. C
- Safety Class : I type B IEC 601-1
- International safety standard: CE/TUV
- Internal Dimensions : 50 x 30 x 21cm
- External Dimensions : 58 x 32 x 50cm
- Main Voltage : 220 - 240V (50-60 Hz)

Equipment should be supplied with

- Trolley
- CVT (Constant Voltage Transformer)
- With complete accessories.
- With 25 k.g. paraffin wax.

10. HYDROCOLLATOR UNIT

Approximately Specifications:

- The unit should be provided with Thermostat temperature control
- The unit should have detachable insert rack to hold and suspend packs for heating.
- The unit should be supplied with twelve (12) standard Enno moist Packs of size 25 x 30 cm
- The unit should be made of stainless steel with rubber wheels for easy mobility
- The unit should be of the International Safety standard (Imported).
- The unit should be supplied with stainless steel storage rack attachment
- The unit should have energy efficient insulated casing

Equipment should be supplied with

- With complete accessories.

11. DIGITAL SHOULDER WHEEL

Approximately Specifications:

- It should have 5 functional LCD display.
- Should have magnetic resistance provides bi-directional resistive exercise.
- Should have Height adjustable wall mount allows for sitting and standing.
- Arm adjustable from 13” to 22”.
- International safety standard CE