

HSCC (India) Ltd

Amendment- IV

Dated 05.05.2017

SUBJECT: Amendment to the Tender Enquiry Document for Physiotherapy Equipments

IFB No.: HSCC/KCGMC/Medical Items/2017/OFF/MC-04 dt 24.03.2017

1. Bid sale, Submission and opening date for above IFB remains as per details given below:

SI No.	Description	Schedule
1	Closing date & time for receipt of tender	17.05.2017,15.00Hrs
2	Time and date of Opening of tenders	17.05.2017,15.30Hrs
3	Venue of Opening of Tender	HSCC(I) Ltd, E-6(A), Sector-1, Noida

2. Revised List of Items along with its Technical Specifications provided by end user are attached as per Annexure-A enclosed (Item Nos 1 to 8 in 6 pages).

All other terms and conditions of the tender enquiry document shall remain unchanged.

Prospective bidders are advised to regularly visit HSCC website/CPPP website for corrigendum/amendments etc., if any, as these will notified on these portals only. No separate advertisement will published in the news paper in this regard.

Chief General Manager, HSCC (India) Ltd,
For and on behalf of DGMER, Panchkula

Annexure-A

IFB No. HSCC/KCGMC/Medical Items/2017/OFF/MC-04 dt 24.03.2017

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 (<i>Qty reduced to ONE</i>)	1	20,000/-
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/-
	FOLLOWING ITEM HAVE BEEN DELETED:		
9	Wax Bath	1	4,200/-
10	Hydrocollator Unit	1	5,000/-
11	Digital Shoulder Wheel	1	3,800/-
12	Infra Red Lamp	1	7000/-

1. INTERFERENTIAL THERAPY UNIT WITH VACUUM

Approximately Specifications:

The Unit should have the following features:

- It should be a 2 or 4 channel electrotherapy with 2 or 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, 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 /SD Card / Computer Interface.
- Should have a large TFT / LCD / Touch Screen Color display monitor.
- The unit should be of the functional ergonomic design to be equally convenient to use by both left-and right-handed persons.
- Continuous monitoring on screen 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 but minimum 100.
- Should have the facility of modifying and storing the stored protocols.
- Should have the stimulating intensity of 0 - 50 mA in Symmetrical and Asymmetrical TENS currents.
- Should have the facility of s/d curves with the display of the same on screen.
- The unit should have IEC/CE Standard.

Equipment should be supplied with

- Trolley / inbuilt Castor wheel.
- UPS of 30 min battery backup.
- 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 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 / LCD / Touch screen for display of the parameters.
- System should be upgradable in future.

Ultrasound Frequency	:	1 (\pm 0.2) & 3 (\pm 0.6) MHz
Ultrasound	:	Continuous and Pulsed
Pulse Frequency	:	upto 100 Hz
Duty Cycle	:	10 - 100
Number of Connections	:	02
Programmable Positions	:	Unlimited but not less than 100.
Should be International Safety Standards CE/TUV certified.		

Equipment should be supplied with

- Trolley
- UPS of 30 min battery backup.
- 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 : 450 KHz \pm 10% or better (Resistive) & 550 KHz \pm 10% or better (Capacitive)
5. Calculation of Impedance. : In real time (optional)
6. Impedance : In real time (optional)
7. Temperature Sensor control (optional)
8. Display : LCD / Touch screen
9. Program : Protocols for different indications.
10. Memory : Free memories for storing customized protocols (Optional).
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

- UPS of 30 min battery backup.
- With complete accessories.

Quantity to be read as **ONE** instead of TWO Nos.

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 Built-in 4 Modes
(EMG Muscle Exercise, Walking Exercise / ETS, 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. In case if the system works in battery only then atleast 24 nos of batteries or minimum 2 nos of rechargeable batteries with charger must be provided with the system to cover the warrantee period.

Equipment should be supplied with

- Trolley
- With complete accessories.

5. SHOCKWAVE THERAPY UNIT

Approximately Specifications:

- The unit should work on the Electro-Pneumatic / Electromagnetic based principal.
 - The unit should have Ballistic shock wave generation system.
 - The unit should have Pneumatic / Adjustable Pressure adjustable from 1 to 5 Bar or equivalent Joule.
 - The unit Should have Multiple Pulse Operating Mode
 - Should have variable repetition rate for (Frequency) of upto 20 Hz (upto 2500 impulses)
 - Should have pre-setting of impulses with frequency.
 - Should have Operating Pressure Range of 1 to 5 Bar or equivalent Joule.
 - Should have Compressed Air Supply range of 5-6 bar – Not applicable for Electromagnetic based unit.
 - 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 with provision of cable holding & jet bottle holder.
 - The unit should be European CE / US 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 upto 2500 & should have an increment of pulses per step.
 - Should be able to show the remaining pulses
 - 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.
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- Should be supplied with:
 - (i) Control Unit

- (ii) Radial Applicator
- (iii) Power Applicator

Equipment should be supplied with

- UPS of 30 min battery backup.
- 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 : min 1200W
- Free Memories : For customized memories of minimum 20.
- Display : Large coloured LCD Touch screen Display
- Treatment Time : 1 to 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 / inbuilt castor wheel.
- 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 to 90 kg variable in steps of 0.5 / 1.0 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 adjustable transition speed.
- 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

- UPS of 30 min battery backup.
- With complete accessories.

8. LUMBAR AND CERVICAL TRACTION UNIT

Approximately Specifications:

The Unit should have the following features:-

- Advanced software working on Windows / suitable latest software 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.
 - Maximum Force : Upto 90 Kg
 - Safety device : Remote control
 - Visualization : Touch Screen / Colored LCD / digital display
- The unit should have traction force adjustable upto 90 kg.
 - The unit should have remote control for emergency stop.
 - The unit should be supplied with Height Adjustable atleast 4 section 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

- UPS of 30 min battery backup.
- With complete accessories.