Annexure-A

EQUIPMENT FOR PHYSIOTHERAPHY-DEPARTMENT

S.NO.	NAME OF EQUIPMENT	Quantity
1	Traction Unit	24
2	Continuous Passive Motion Unit for Lower Limbs	6
3	Short Wave Diathermy Unit	6
4	Interferential Therapy Unit	6

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TECHNICAL SPECIFICATION

1. Traction Unit and Traction Table

TRACTION SYSTEM

1. Should be microprocessor controlled user friendly traction system.
2. Should have possibility for both cervical and lumbar traction.
3. Should have treatment time from 0 to 60 minutes.
4. Should have at least two modes (Static & Intermittent) of operation.
5. Should have possibility for hold and rest time set.
6. Should have facility to set traction force from 5 to 45 kgs & with an option of doublers pulley & to sustain traction of 90 Kgs.
7. Should operate in mains supply 200 to 240 Vac, 50Hz.
8. Should be supplied with the following accessories.

- Spreader bar (Cervical and lumber both)
- Patient stop switch
- Cervical collar
- Thoracic belt & pelvic belt

TRACTION TABLE

1. Should have facility to fit any traction unit.
2. Should be a two section table with approximately 2.5 (W)*6 (L)* 3 (H) feet.
3. Should have armpit for counter traction
4. Should have facility to adjust the height of the traction unit.
5. Should have powder coated mild steel body.
6. Should be supplied with soft mattress.
7. Should be supplied with foot rest

Manufacturer should have ISO certification.

Schedule No. 2- **Continuous Passive Motion Unit for Lower Limbs**

S.N.	Purchaser's Specifications
	Continuous Passive Motion Unit for Lower Limbs
1	**Description of Function**
1.1	Continuous passive motion (CPM) is a treatment method designed to aid in the recovery of joints after surgery.
2	**Operational Requirements**
2.1	CPM involves the use of a mechanical device, which automatically moves the joint with the goal of initiating early movement following surgery. The device itself supports the limb and slowly moves the joint without patient assistance.
3	**System Configuration**
3.1	Continuous Passive Motion (CPM) Therapy for Lower Limbs with complete accessories.
4	**Technical Specifications**
4.1	Adjustable time 0-30 minutes.
4.2	Adjustable flexion angle (minus)-5 to 110 degree.
4.3	Delay time 0-10 seconds.
4.4	High torque reversible instant start and stop motor.
4.5	Machine speed: Approx.1.5 min. for one oscillatory motion.
4.6	The device is pre-set to move through an appropriate range of motion over a 24-hour period to assure continuous movement of the joint.
4.7	Must have anatomically correct movements.
4.8	Easy to operate and transport.
4.9	Should be provided with Patient safety switch
5	**Accessories, spares and consumables**
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).
6	**Operating Environment**
6.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements. The power cable must be minimum 3 metres long.
7	**Standards and Safety Requirements**
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.
7.3	Shall meet IEC-60601-1-2:2001General Requirements of Safety for Electromagnetic Compatibility.
8	**User Training**
8.1	Must provide user training (including how to use and maintain the equipment).
9	**Warranty**
9.1	Comprehensive warranty for 3 year.
10	**Maintenance Service During Warranty Period**
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance

S.N.	Purchaser's Specifications
	whenever required.
11	**Installation and Commissioning**
11.1	Supplier must accomplish proper installation & commissioning of equipment onsite.
12	**Documentation**
12.1	User (Operating) manual in English.
12.2	Service (Technical / Maintenance) manual in English.
12.3	List of important spare parts and accessories with their part numbers and costing.
12.4	Certificate of calibration and inspection from factory.

Schedule No. 3-**Short Wave Diathermy Unit**

S.N.	Purchaser's Specifications
	Short Wave Diathermy Unit
1	**Description of Function**
1.1	Short Wave diathermy produces high frequency alternating current. The heat energy obtained from the wave is used for giving relief to the patient.
2	**Operational Requirements**
2.1	A device using electromagnetic energy in the shortwave frequency range (3-30 MHz) for therapeutic purposes. The unit includes electrodes, the shortwave generator, and all associated electronics, controls and enclosures.
3	**System Configuration**
3.1	Continuous and Pulsed Short Wave Diathermy unit with LCD display and with complete accessories.
4	**Technical Specifications**
4.1	Output of 400 to 500 Watt in continuous mode and 800 to 1100W in Pulse mode.
4.2	Pulse repetition frequency of 20 to 200Hz adjustable in 10 steps.
4.3	LCD screen display of parameter.
4.4	Treatment timer with all standard accessories, condenser-pad with cable.
4.5	Disc electrodes with arms and cables.
4.6	Should be solid state & radiation free.
5	**Accessories, spares and consumables**
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).
6	**Operating Environment**
6.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements. The power cable must be minimum 3 metres long.
7	**Standards and Safety Requirements**
7.1	Must submit ISO13485:2003/AC:2007 for Medical Devices **AND**
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.
7.3	Shall meet IEC-60601-2-3: PART 2: Particular Requirements for the safety of Short-

S.N.	Purchaser's Specifications
	Wave Therapy Equipment.
8	**User Training**
8.1	Must provide user training (including how to use and maintain the equipment).
9	**Warranty**
9.1	Comprehensive warranty for 3 years.
10	**Maintenance Service During Warranty Period**
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.
11	**Installation and Commissioning**
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.
12	**Documentation**
12.1	User (Operating) manual in English.
12.2	Service (Technical / Maintenance) manual in English.
12.3	List of important spare parts and accessories with their part numbers and costing.
12.4	Certificate of calibration and inspection from factory.

Schedule No. 4- **Interferential Therapy Unit**

S.N.	Purchaser's Specifications
	Interferential Therapy Unit
1	**Description of Function**
1.1	A current therapy used in the treatment of circulatory disorders, range of motion, oedema and muscle spasms. Interferential current is a form of electrical therapy that delivers currents to deep tissues through the use of kilohertz-carrier-frequency pulsed or sinusoidal currents to overcome the impedance offered by the skin. It is a deeper form of TENS.
2	**Operational Requirements**
2.1	A choice of two or four pole treatment and have a facility to enable the user to set the "beat" frequency according to the condition being treated with rechargeable internal battery.
3	**System Configuration**
3.1	Mobile Interferential Therapy with accessories.
4	**Technical Specifications**
4.1	Must have low & medium frequencies current for electrotherapy.
4.2	2 & 4 pole with dipole vector field with TENS.
4.3	Galvanic, Faradic MF surge & NME stimulation.
4.4	Large programmable memory with pre-set programme.
4.5	Carrier wave frequency adjustable between 2-10 KHz.
4.6	Large LCD display for treatment parameter & option of CC/CV mode.
5	**Accessories, spares and consumables**
5.1	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).

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S.N.	Purchaser's Specifications
6	**Operating Environment**
6.1	The system offered shall be designed to store and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, Humidity, etc.
6.2	Power supply: 220-240V/ 50 Hz AC Single phase fitted with appropriate plug to meet purchaser's country requirements. The power cable must be minimum 3 metres long.
7	**Standards and Safety Requirements**
7.1	Must submit ISO 9001 or ISO 13485:2003/AC:2007 **AND**
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.
7.3	Shall meet IEC-60601-1-2:2001General Requirements of Safety for Electromagnetic Compatibility.
8	**User Training**
8.1	Must provide user training (including how to use and maintain the equipment).
9	**Warranty**
9.1	Comprehensive warranty for 3 years.
10	**Maintenance Service During Warranty Period**
10.1	During the warranty period supplier must ensure corrective/breakdown maintenance whenever required.
11	**Installation and Commissioning**
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser in advance, in detail.
12	**Documentation**
12.1	User (Operating) manual in English.
12.2	Service (Technical / Maintenance) manual in English.
12.3	List of important spare parts and accessories with their part numbers and costing.
12.4	Certificate of calibration and inspection from factory.