

Annexure-A

No.RIMS-51/PUR-E/14

Imphal, the 30th July 2014

List of equipments for Physiotherapy, PMR, RIMS, Imphal.

Item No. 1:- Short Wave Diathermy (US FDA approved/CE certified)

The unit should have the following specifications:

- i. Generator frequency : 27.12MHz,±0.6%
- ii. Output power : Continuous HFmax.400W Pulsed
HF.max.1000W(peak)
- iii. Pulse duration : ca 400 microsecond
- iv. Pulse repetition frequency : 15 – 200Hz adjustable in 10 steps
- v. Mains supply : 220 – 240V/50Hz
- vi. Main voltage variation : approx. ±10%
- vii. pulsed peak power : 1000 W and Flexi lode for back treatment.
- viii. Current consumption : Approx.6 A(at230V)
- ix. Dimensions
(w*d*h), without arms : 56 x 43 x 92.5cm
- x. Length electrode arms : 93cm
- xi. Weight : ca, 80kg

Item No. 2:- Ultra sound therapy (US FDA approved/CE certified)

The unit should have the following specifications:

- i. Ultrasound frequencies : 1 and 3 MHz.
- ii. Ultrasound output modes : Continuous and Pulsed
- iii. Intensity a) Pulsed : 0-3 W/cm sq.
b) Continuous : 0-2 W/cm sq.
- iv. Display : Intensity in W/cm. sq.
- v. Timer : 0-30 minutes, coupled to contact control.
- vi. Contact control threshold : 65%
- vii. Treatment head : Large Multi-frequency Treatment head ERA
5.0cm².
- viii. Treatment head should be water tight for underwater use.
- ix. Main Supply : 220-230V (50/60 Hz)
- x. Battery Charger : 12V, 1.9 Ah, MF Accumulator.
- xi. Safety class : According to IEC 601-1/ CE- MDD, TUV/GS.
- xii. The unit should have at least 10 free programmable memory positions.
- xiii. The unit should have at least 9 pre-programmed positions.
- xiv. The unit should have automatic power switch- off and treatment time interruption in case of insufficient contact.
- xv. The unit should have visual indicator on the treatment head to show the insufficient contact.

Item No.3:- Interferential therapy (US FDA approved/CE certified)

The unit should have the following specifications:

- i. The carrier frequency for Interferential current should be variable from 2 KHz to 10 KHz and Amplitude. Modulation Frequency adjustable up to 200 Hz.
- ii. Current channels : 4 independent, fully galvanically separated
- iii. Current forms : 16 current forms -36 varieties
- iv. Programmable positions : Unlimited
- v. Pre-programmable position : 60
- vi. Vacuum : Continuous and pulsed
- vii. Mains Voltages : 100 – 200V+- 10% (50%60Hz)
- viii. Measurements (w*d*h) : 39x37x29.5
- ix. Weight : 6.2kg

Item no.4:- Electric tilt table (US FDA approved/CE certified)

The unit should have the following specifications:

- i. System of Tilting table : from 0 to 85 degrees.
- ii. Height adjustable : from 54 to 104 cm.
- iii. Minimum lifting time : 25 seconds
- iv. Lifting capacity : 150 kg
- v. Force of electric motor : 6 Newton
- vi. Force electric motor : 6 Newton
- vii. Power supply : 230 v ac 50/60 Hz
- viii. Current Consumption : 3 A max.
- ix. Battery which can safely 30mins back up.
- x. International safety standard CE/TUV/FDA

Item no. 5:- Shock Wave therapy (US FDA approved/CE certified)

The unit should have the following specifications:

- i. The system should be based on Electro-Pneumatic System
- ii. The unit should have Pneumatic System 6 Bar maximum.
- iii. The unit should have effective power adjustable from 1 to 5 Bar.
- iv. The unit should have frequency adjustable from 1 to 5 Hz.
- v. The unit should have focussed and unfocussed probes.
- vi. The unit should have LCD Display
- vii. The unit should have 1 BF protection class
- viii. The unit should have manual setting, Pre-set Protocols & customized memories
- x. The unit should work on 230 VAC & 50/60 Hz.

Item no. 6:- Paraffin wax bath (US FDA approved/CE certified)

The unit should have the following specifications:

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

Item No. 7:- Channel Unit for Electrotherapy (US FDA approved/CE certified)

The unit should have the following specifications:

- i. Electric Treatment Device in independent 8 channels.
- ii. Simultaneous use by two persons through dividing by 4 channels into two groups.
- iii. Creation of various treatment patterns of exclusive CD and software.
- iv. Synthetic curer with built –in FES, EMS, TENS and DC Mode
- v. Memory function capable of storing maximum 100 treatment patterns.
- vi. Standing & Walking exercise for lower limbs paralytics.
- vii. Pulse Shape: Monophasic rectangular pulse Biphasic rectangular pulse DC compensated.
- viii. Amplitude : 0-99mA
- ix. Frequency : 1-200 Hz
- x. Pulse Duration : 20 μ s~50ms
- xi. Intensity : 0-99 mA
- xii. Alarm : 10-80 min.

❖ Extra accessories : Two pair of Patient Cables & Electrode sets.

Item no. 8:- Functional Electrical Stimulator (US FDA approved/CE certified)

The unit should have the following specifications:

- i. Should be portable with EMG-triggered functional electrical stimulator.
- ii. Should have Exclusive software showing patient control, degree of muscular strength and process.
- iii. Should have Reinforcement of walking training through foot switch
- iv. Should have Built-in 4 Modes
- v. (EMG Muscle Exercise, Walking Exercise, Muscle Exercise and Pain Cure Modes)
- vi. Battery life indicator and automatic power 'off'
- vii. Lock system for the safety of patients
- viii. two output channels
- ix. frequency from 1Hz to 200 Hz.
- x. pulse width 50 to 500 microseconds
- xi. Ramp Up/ Down 0.1 to 10 sec.
- xii. Should have contraction / Relaxation Time 0.5 to 50 Sec.
- xiii. The Unit should work on battery as well as mains.
- xiv. Extra accessories : Two pair of Patient Cables & Electrode sets.

Item No. 9:-Manipulation Couches (US FDA approved/CE certified)

The Treatment couches have the following features:-

- i. Extremely large table top (100 or 120x200 cm)
- ii. There must be six section.
- iii. Electric or hydraulic height adjustment, 45-95 cm
- iv. Easy to move with retractable castors
- v. High durable grey PUR-coated frame
- vi. Comfortable padding, also at the side of the table top
- vii. Durable, hygienic and washable upholstery
Specific options and accessories for the Special Exercise couch:
viii. A number of rolls, cushions and pillows for optimal support of your patient/client
Choice of switches.
- ix. Size tabletop (lxw) : 200x100 cm (optional 120 cm width) for models 510 and 520
- x. Size tabletop : 200x120 cm for models 511 and 521
- xi. Height adjustment : 43-93 cm
- xii. Fixed height : 55 cm for model 500
- xiii. Lifting time (min.-max.) : approximately 25 sec.
- xiv. Lifting capacity : 150 kg
- xv. Force hydraulic pump : 10.000 N
- xvi. Force electrical motor : 6.000 N
- xvii. Power supply : 100 / 120 / 230V AC 50/60 Hz
- xviii. Current consumption : 1.0 A max.

Item No. 10:- 2- Channel Unit TENS (US FDA approved/CE certified)

The unit should have the following specifications:

• Two channel unit

- i. No. of channels : 2 (non-independent)
- ii. Constant current : upto a resistance of 1000.
- iii. Current wave form : 0-99.5 mA Symmetrical biphasic pulse 100% compensated.
- iv. No. of pre-set program : 5
- v. No. of custom program : 5 PP1-PP5)
- vi. Stimulation forms : conventional, Burst, Modulated frequency. Alternate modulated pulse intermittent.
- vii. Max pulse duration : 400 MS.
- viii. Max frequency : 120 Hz.
- ix. LCD Screen.


❖ Extra accessories : Two pair of Patient Cable & Electrode sets.

Item No.11:- 4- Channel Unit TENS (US FDA approved/CE certified)

The unit should have the following specifications:

- i. 2 output channels
- ii. Ambulatory use & arranged LCD display
- iii. Output current : 0-60 mA (peak value), constant current output
Pulse type : Asymmetrical, two-phase square wave pulse, with average value of zero
- iv. Pulse duration : 150 US
- v. Pulse frequency : 10,15,20, 30, 40, 60, 80, 100 Hz
- vi. Burst frequency : 1, 2, 3, 4, 5 Hz
Burst time : 125 ms (Starting time 25 ms, constant frequency time 75 ms, deceleration time 25 ms).

❖ Extra accessories : Two pair of Patient Cables & Electrode sets.


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