No. IV-21011/9/2009-Prov-I Government of India Ministry of Home Affairs

26, Man Singh Road, Jaisalmer House, New Delhi, 18.5.2009

To

The DGs: Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSB/BPR&D

Subject:- Technical Specifications/QRs of the Hospital Equipments

The Technical Specifications/QRs of the following Hospital Equipments as per Annexures, have been accepted by the Competent Authority in MHA:-

1	Digital Tabletop B Class Dental Autocalve
2	Digital X-Rays Machine for 50 beded Hospital
3	Advance Electro Therapy Unit, Combination Therapy Equipment with Electro Therapy with
	Ultrasound & Laser Therapy & Vacuum.
4	Whole Body Vibration Unit
5	High Frequency Shortwave Diathermy
6	Tens & Stimulator
7	Continuous Passive Motion(For upper Limb & Lower Limb)
8	Contrast bath(Hot & Cold)

Henceforth, all the CPMFs should procure the above items required by them strictly as per the laid down Technical Specifications/QRs.

> 18/05/09 (R.S.Sharma) Director (Prov)

Copy to:-

DD(Procurement),MHA

Copy for information to:-

PS to JS(PM), MHA

Copy also to:-The ADG(Med),

Central Paramilitary Force Medical Services,

Ministry of Home Affairs,

ITBP CASMP,

TIGRI,

P.O. Madangir, New Delhi-110062.

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ORs for Advance Electro Therapy Unit, Combination Therapy Equipment with Electro Therapy with Ultrasound & Laser Therapy & Vacuum

- [The	Unit should have the following features:-			
	1	Therapies:-			
		Electro therapy, w and 4 poles, 2 channels completely independent.			
	Ultra sound therapy				
.	. :	Simultaneous therapy(2 different indications treated simultaneously by using electro and			
		ultrasound therapy)			
ı.		Combination therapy (treating one injury simultaneously using a combination of electro and			
1	- 4	ultrasound therapy.			
. [Laser therapy			
	2	ULTRASOUND			
	3	Laser: (The probes are optional)02 probe:-			
ļ		Monoprobe P43; mono probe			
	13.4	Clusterprobe P45: cluster probe(4 diodes)			
-		Combination therapy unit for 2-channel electrotherapy, ultrasound, and Laser therapy with			
1		unique guided therapy system for objective based therapy			
	i Electrode placement and help & information key on screen.				
	ii	More than 26 different current forms: namely MF rectangular, Rectangular pulse,			
		Triangular, 2-5 current (Ultra Reiz), MF, DF, CF, CP-ISO, LP, LP-ISO, Conventional			
•		Tense, Low Frequency Tense, Random frequency Tense, Burst Tense, Han Stim,			
	may guidante n a pub	Rectangular surge, Triangular surge, Symmetrical Biphasic Surge, a symmetrical Biphasic Surge, Intrapulse Interval Surge Symmetrical, Russian Stimulation, 2-pole MF Surge,			
		Surge, intrapulse interval Surge Symmetrical, Russian Stringlation, 2-pole in Surge,			
	100	Classical Interferential surge, Isoplanar Vector field surge, 2-pole MF, Dipole Vector			
-	iii	field & Isoplanar vector field. More than 260 pre-programmed protocols.			
- }			norry		
. }		iv Must have 50 free programmed treatment memory. V Combination of Ultrasound Therapy & Electrotherapy unit.			
}	V	RRIER WAVE FREQUENCY 2-10 KHz If	N STEPS OF 100 Hz FOR RESEARCH		
-			Silil Of Italian		
	PURPOSES: i Frequency - 1 & 3 MHz in single head for deep & superficial treatment.				
	1 100/ 000/ 400/ 500/ 0 1000/				
.	iii				
ł	iv				
	v Simultaneous therapy, 2 different indications treated simultaneously by using electro and				
		ultrasound therapy			
ŀ	LASER THERAPY				
1	i Should have facility for automatic calculation of dosing parameters and facility to set				
		treatment area			
	ii	Facility to accumulate total energy to be used	in semi-stationary method		
	iii	LCD display to simultaneously displays: The	ne probe in use, Pulse repetition frequency,		
		Energy density, Total energy & Surface area u	inder treatment		
	iv				
	SHOULD PROVIDE:				
۱ ا	Nun	ber of laser diodes	1 (Monoprobe)		
	Non	ninal Ocular hazard distance	214 mm		
. 1	Wav	e Length	905 nm		
•		gy per pulse	2.35µJ		
1	Peak performance		13.5 W		
Maximum average power			70.5mW		
Pulse frequency			2 to 30 kHz		
		e width at 50% of the peak power	155 ns		
Beam surface at laser aperture			12.9 m xsqm		
Beam divergence			Dual mode 10 degree and 45 degree		
- :	Along with standard accessories and Optional accessories i.e. Bag(Carrying case), US Head,				
	multi frequency (land 3 MHz), 1cm ² vaginal probe. Electrode rubber 4x6 Cm (per 2), Electrode				
	rubber 8x12 cm (per2), Electrode adhesive Ø 3 cm (per 4), Electrode adhesive, 2,5 x 5 cm (per				
	4), Electrode adhesive, 5 x 5 cm (per 4)				