

Level 1 Category: Medical Equipment and Accessories and Supplies -UNSPS Code 42000000

Level 2 Category:Patient care and treatment products and supplies - UNSPS Code 42140000

Level 3 Category: Electrotherapy equipment -UNSPS Code 42141800

Level 4 Category: Shortwave Diathermy Machine (Continuous and pulsed)-UNSPS Code 42141806

GEM Version 3.0

S.NO	PARAMETER	HINT	TYPE OF FIELD	VALUES (in drop down box for selection of values from the options if available)							UNIT	CATEGORY OF FIELD	REMARKS
				GENERAL FEATURES									
1	Product description	--	ENUMERABLE	Shortwave Diathermy Machine (Continuous and pulsed)							--	MANDATORY	
2	Clinical purpose	--	ENUMERABLE	To give pain relief to the patient muscular skeletal pain and injuries, and pelvic inflammatory disease and commonly used in muscle relaxation, and to induce deep heating in tissue for therapeutic purposes.							--	MANDATORY	
3	Application	--	ENUMERABLE	Effective in Inflammation of shoulder joint, Elbow joint, Cervical spondylosis, chronic arthritis, Osteoarthritis, Ligament sprain in knee joints, Low back ache, muscle spasms, myositis, neuralgia, sprains and strains, tenosynovitis, tendonitis, bone injuries, bursitis, Sinusitis and wound healing etc.,							--	MANDATOYR	
4	Technology	--	ENUMERABLE	Microprocessor controlled solid state							--	MANDATORY	
5	Types of diathermy applicator	--	ENUMERABLE	Induction field	Capacitive field						--	MANDATORY,FILTER	Multiselect
6	Touch screen type colour display monitor	--	ENUMERABLE	LCD							--	MANDATORY	
7	Screen saver facility after certain time selectable of inactivity	--	ENUMERABLE	Yes							--	MANDATORY	
8	should have two outlets so that two electrodes can be used simultaneously with independent adjustment of peak power and pulse width.	--	ENUMERABLE	Yes							--	MANDATORY	
9	should have maximum of 100 free memory to save personal protocols	--	ENUMERABLE	Yes							--	MANDATORY	
10	Pulse frequency adjustable	--	ENUMERABLE	Yes							--	MANDATORY	
11	Special inductive electrode, inclusive	--	BOOLEAN	Yes	No						--	MANDATORY,FILTER	
12	Adjustable electrode arm	--	ENUMERABLE	Yes							--	MANDATORY	
13	HF cut-off switch in case of overload provided	--	ENUMERABLE	Yes							--	MANDATORY	
14	Patient safety swich provided	--	ENUMERABLE	Yes							--	MANDATORY	
15	Flexible pads: Metal electrodes encased in rubber and produce an electrostatic field	--	BOOLEAN	Yes	No						--	MANDATORY,FILTER	
16	Space plates: Consists of rigid metal electrode encased in a perplex cover of electrostatic field	--	BOOLEAN	Yes	No						--	MANDATORY,FILTER	
17	Coil or cable electrode consists of a wire with plug at either end creates electromagnetic field	--	BOOLEAN	Yes	No						--	MANDATORY,FILTER	
18	Mono mode: The flat rigid coil encased in plastic cover generates electromagnetic field	--	BOOLEAN	Yes	No						--	MANDATORY,FILTER	
19	The diplode or drum electrode consists of a flat coil electrode encased in a perspex cover with two wings generates electromagnetic field	--	BOOLEAN	Yes	No						--	MANDATORY,FILTER	
20	Safety instructions of usage lable pasted on the machine	--	ENUMERABLE	Yes							--	MANDATORY	
21	Do's and Dont's must be displayed on the machine with "Warning" instructions	--	ENUMERABLE	Yes							--	MANDATORY	
22	Additional precautions if any must be displayed on the machine lable	--	ENUMERABLE	Yes							--	MANDATORY	
23	The machine is mounted on castors with stoppers	--	ENUMERABLE	Yes							--	MANDATORY	
24	Size (HxWxL) (mmxmmxmm) (Tolerance +/-5mm for each direction)	--	ENUMERABLE	380x280x230	410x300x300	900x460x405	905x472x370				mmxmmx mm	GOLDEN PARAMETER	
25	Weight (Kg)	--	NUMERIC	10 to 30	31 to 50						Kg	GOLDEN PARAMETER	

OPERATIONAL & TECHNICAL REQUIREMENTS												
1	RF Power source	--	MEASURABLE	RF Generator solid state							--	MANDATORY
2	RF Indicator	--	MEASURABLE	Available							--	MANDATORY
3	Input power supply	--	ENUMERABLE	220+/-10% V, 50/60 Hz, AC Single phase							--	MANDATORY
4	Power consumption (Watt)	--	NUMERIC	250	300	400	500				Watt	GOLDEN PARAMETER
5	Power output (Continuous mode)(Watt)	Must Declare the range	ENUMERABLE	0 to 500							Watt	GOLDEN PARAMETER
6	Power output (Pulsed mode) (Watt)	Must Declare the range	ENUMERABLE	20 to 1100							Watt	GOLDEN PARAMETER
7	Adjustable Output power settings	--	ENUMERABLE	5 steps	10 steps						--	MANDATORY,FILTER
8	Average power (Watt)	Must Declare	NUMERIC								Watt	GOLDEN PARAMETER
9	Peak power (Min) (Watt)	Must Declare	NUMERIC								Watt	GOLDEN PARAMETER
10	Output frequency (MHz)	--	NUMERIC	27.12							Hz	MANDATORY
11	Wave length (mtr)	--	NUMERIC	11.062							meter	MANDATORY
12	Wave shape	--	ENUMERABLE	Mono Phasic							--	MANDATORY
13	Pulse rate or pulse repetition frequency in increments of 10 Hz, (Hz)	Must Declare the range	ENUMERABLE	10 to 800							Hz	GOLDEN PARAMETER
14	Adjustable Pulse duration or Pulse width in increments of 20 micro seconds, (micro second)	--	MEASURABLE	20 to 400							Micro second	GOLDEN PARAMETER
15	Treatment duration timer	--	ENUMERABLE	Manual & Pre-programmable							--	MANDATORY
16	Treatment duration selectable Timer, manual (minute)	--	ENUMERABLE	1 to 30							minute	MANDATORY
17	Treatment duration programmable digital timer (minute)	--	ENUMERABLE	1 to 99							minute	MANDATORY
18	Pre-programmable settings to user protocols (Minimum)	--	ENUMERABLE	20							--	MANDATORY
19	Tuning control to adjust the radio frequency to maximum out put	--	ENUMERABLE	Yes							--	MANDATORY
20	Automatic tuning of power between the electrodes and patient	--	ENUMERABLE	Yes							--	MANDATORY
21	Testing tube filament to check the output of the machine provided	--	ENUMERABLE	Yes							--	MANDATORY
22	Fuse 6Amp	--	ENUMERABLE	Yes							--	MANDATORY
STANDARD ACCESSORIES												
1	Disc electrodes or space plates (No)	Must declare	NUMERIC	2							No	GOLDEN PARAMETER
2	Rubber electrodes (Set)	Must declare	NUMERIC	2							Set	GOLDEN PARAMETER
3	Mono-polar inductive electrodes (No)	Must declare	NUMERIC	1	2						No	GOLDEN PARAMETER
4	Diplode or drum electrodes (No)	Must declare	NUMERIC	1	2						No	GOLDEN PARAMETER
5	Coil electrodes (No)	Must declare	NUMERIC	2							No	GOLDEN PARAMETER
6	High frequency cables (No)	Must declare	NUMERIC	2							No	GOLDEN PARAMETER
7	Flexible cable to connect rubber electrode (No)	Must declare	NUMERIC	2							No	GOLDEN PARAMETER
8	Felt spacers (No)	Must declare	NUMERIC	2							No	GOLDEN PARAMETER
PACKING MODE												
1	The product is packed individually in a wooden box including all the accessories in such a way that there will be no transit damage during transportation	--	ENUMERABLE	Yes							--	MANDATORY
ENVIRONMENTAL CONSIDERATIONS												
1	Storage conditions	--	ENUMERABLE	Temperature 0 deg C to 50 deg C, RH 10% to 90%							--	MANDATORY
2	Work or usage environment	--	ENUMERABLE	Temperature 10 deg C to 50 deg C, RH 10% to 90%							--	MANDATORY

CERTIFICATIONS & REPORTS													
1	Submission of Test Report from Central Govt./NABL/ILAC accredited Lab to prove the conformity to declared specification at the time of supply	--	ENUMERABLE	YES								--	MANDATORY
2	Should have safety certificate from a competent authority viz. EU-CE/US-FDA/STQC/ERTL	--	ENUMERABLE	Yes								--	MANDATORY
3	Certificate No	Must Declare	TEXT									--	MANDATORY
4	Certificate Date	Must Declare	TEXT									--	MANDATORY
5	Product certification	--	ENUMERABLE	BIS	EU-CE	US-FDA	STQC	ERTL				--	MANDATORY,FILTER
6	Certificate No	Must Declare	TEXT									--	MANDATORY
7	Certificate Date	Must Declare	TEXT									--	MANDATORY
8	Certificate issuing authority	Must Declare	TEXT									--	MANDATORY
9	Certification, performance and safety standards specific to the device	Must Declare like IEC 60601-1:2012, IEC 6060-1-2:2014, ISO 14971:2007	TEXT									--	MANDATORY
10	Submission of all the certifications and test reports to the buyer along with supplies on demand	--	ENUMERABLE	Yes								--	MANDATORY
INSTALLATION & TRAINING													
1	Supplier to perform installation, safety and operation checks before handover	--	ENUMERABLE	Yes								--	MANDATORY
2	Agreed for installation in case if machine requirement is for remote/field locations and to provide services onsite to end user	--	BOOLEAN	Yes	No							--	MANDATORY,FILTER
3	Training of users in operation and basic maintenance shall be provided	--	ENUMERABLE	Yes								--	MANDATORY
WARRANTY & MAINTENANCE													
1	Warranty (Year)	--	NUMERIC	1	2	3						Year	GOLDEN PARAMETER
2	Provision of onsite warranty for 5 years	--	BOOLEAN	Yes	No							--	MANDATORY,FILTER
3	User technical and maintenance manual detailing complete maintaining schedule with routine maintenance should be provided	--	ENUMERABLE	Yes								--	MANDATORY
4	Contact details of manufacturer, supplier and local service agent to be provided	--	ENUMERABLE	Yes								--	MANDATORY

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