

TECHNICAL SPECIFICATION OF STERNUM SAW

SN	Description	COMPLIANCE		Page No. of Catalogue
		Yes	NO	
Sternum Saw (Reciprocating Type)				
	Manufacturer			
	Brand			
	Type/Model			
	Country of Origin			
1	Description of Functions:			
1.1	A sternum saw is a pistol grip Hand piece bone cutter used to perform median sternotomy: Opening the patient's chest by splitting the breastbone or sternum.			
2	Operational Requirement			
2.1	It should be able to operate through rechargeable battery.			
3	System Configuration			
3.1	Sternum Saw with complete accessories, blades, guards, battery packs & battery charger.			
4	Technical Specifications			
4.1	It should have a trigger and a function switch.			
4.2	Trigger switch which controls the variable speed operation of the handpiece according to the pressure applied to the trigger switch.			
4.3	Function switch sets the speed or locks the trigger			
4.5	It should have reciprocating blade motion			
4.6	It should provide clear line of sight.			
4.7	It should have vibration control with no or minimal vibration			
4.8	It should have high precision and quick cutting			
4.9	It should be compatible with wide range of blades			
4.10	The blade holding mechanism should be auto lock type i.e. key less chuck mounting for reliable, quick and easy replacements of blades.			
4.11	It should have facility for intra operative replacement of battery pack.			
4.12	The saw must be easily sterilizable by autoclaving and plasma sterilization.			
4.13	It should have safe modes and generates 'beep tone' when starts working.			
4.14	It should have more than 13000 cpm (fast mode), 11000 cpm (standard mode)			
4.15	Excursion : 3.9 mm or better			
4.16	It should be light weighted <1.2kg with excellent ergonomics, easy grip			
4.17	Ingress Protection : IPX9 during cleaning and sterilization			
4.18	Type of Equipment : Type BF			
	Battery			
4.19	It should be non sterilizable NimH/Li-ion rechargeable battery			
4.2	It should be compatible with sternum and Redo sternum saw.			
4.21	Battery voltage should be at least 9V			
	Battery Charger			

4.9	It should have capability to identify the worn out battery.			
	It should charge at least four batteries at a time without any module or modification.			
	It should have an indicator to provide battery status for charging.			
	Main voltage of 100-240 VAC, 50-60 Hz			
Accessories :				
4.1	Saw Blades - 6 pcs., Short Blade Guard - 2 pcs. & Long Blade Guard - 2pcs. Insert Trays - 1pc., Battery Packs - 2 pcs. , Battery Charger - 1pc., Box/Carry Bag - 1pc.			
5	Accessories, spares and Consumables			
5.1	All standard accessories/consumables/parts required to operate the equipment to be included in the offer. Bidders shall specify in separate excel worksheet the quantity of every item included in the offer.			
5.2	All components must be from same manufacturing company.			
6	Operating Environment			
6.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country.			
7	Standards and Safety Requirements			
7.1	Must submit ISO 13485:2003/AC:2007 for medical device and			
7.2	CE Certified Declaration (93/42 EEC Directives) & US FDA Approved product certificate.			
7.3	IEC 60601-1 & Electromagnetic Safety Product Certificate			
7.3	The supplier should fill the technical tender form and clearly mention the article number of quoted items and catalog page no, else technically will be disqualified.			
8	User Training			
8.1	Must provide user training to users and hospital's technicians (including how to use and maintain system)			
9	Warranty			
9.1	Comprehensive warranty of minimum 2 years from date of acceptance.			
10	Maintenance Service During Warranty period			
10.1	During the warranty period supplier must ensure schedule preventive maintenance and corrective/breakdown maintenance as and whenever required.			
11	Installation and Commissioning			
11.1	Must arrange for installation by qualified certified/qualified personnel and any prerequisites for installation to be communicated to the purchaser in advance, in detail.			
12	Documentation			
12.1	User/Operating Manual in English			