Monitor, Cardiotocogrpah (CTG)

S.N.	Purchaser's Specifications		Bidder's Offer
	Monitor, Cardiotocogrpah (CTG)		
	Manufacturer		
	Brand		
	Type / Model		
	Country of Origin		
1.	**Description of Function**		
1.1	CTG monitor is used in health facilities for routine assessment of foetal heart rate (FHR) and uterine contractions (UC), during labour and throughout delivery.		
2.	**Operational Requirements**		
2.1	External foetal monitoring system, shall work on mains electric supply and built-in rechargeable battery.		
3.	**System Configuration**		
3.1	Cardiotocogrpah (CTG) Monitor with complete accessories.		
4.	**Technical Specifications**		
4.1	It shall have ultrasonic transducer to measures foetal heart rate (FHR).		
4.2	Shall have facility of calculation of FHR base line, variability, accelerations and decelerations.		
4.3	Shall have facility of audio-visual alert on loss of signal.		
4.4	Shall have pressure-sensitive transducer that records uterine contractions (UC).		
4.5	Monitor fit with remote switch for event marking.		
4.6	Monitor shall be used for twins.		
4.7	System automatically recognizes specific transducer.		
4.8	Self-test is performed each time the device is switched on.		
4.9	LCD / color TFT display or equivalent shall be provided with: FHR 1, FHR 2 and UC.		
4.10	FHR range, approximately 50 to 240bpm, minimal graduation 1bpm.		
4.11	UC range, relative: 0 to 100 units, minimal graduation 1 unit.		
4.12	System reports, with audio-visual alert: operational status, malfunctions (transducers), out-of-paper.		
4.13	**Printer:** • Built-in high-resolution thermal printer, paper width approximately 150mm. • Automatic and manual print-out mode. • Prints FHR 1, FHR 2 and UC, displayed parameters and marked events. • Printer resolution, approximately 1bpm (FHR) and 1 unit (UC). • Paper speed, adjustable: 1, 2 or 3cm/min. • Print-out on z-folded thermo-reactive paper. • Paper graduation: FHR 25bpm/cm and UC 25 units/cm.		
4.14	Shall have data communication interface: RS232, BNC, USB or equivalent.		
4.15	Monitor shall be compact and ergonomic design, smooth finishing allows for easy cleaning.		
5.	**Accessories, spares and consumables**		
5.1	Shall come with:		

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	• 1 x Contraction transducer. • 2 x Foetal heart ultrasonic sensor. • 1 x Remote switch event marker with cable. • 2 x Transducer belt 5 x 150cm, length adjustable. • 1 x Box of thermal recording paper, total 100 z-folded sheets. • 2 x Bottle of ultrasound gel, approximately 250ml. • 1 x set of fuse. • 1 x Plastic protective dustcover.	
5.2	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 – 240 VAC, 50Hz fitted with appropriate plug. The power cable must be at least 3 metre in length. Power consumption, approximately 50W.	
7.	**Standards and Safety Requirements**	
7.1	Must submit ISO13485:2016 for Medical Devices **AND**	
7.2	CE (93/42 EEC Directives) or USFDA approved product certificate.	
7.3	Electrical safety conforms to standards for electrical safety IEC 60601-1 General requirement for Electrical safety of Medical 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 2 years after acceptance.	
10.	**Maintenance Service during Warranty Period**	
10.1	During warranty period supplier must ensure preventive maintenance and 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.	