Technical Specification of Infusion Pump

S.N.	Purchaser's Specifications	Bidder's Compliance Sheet		
	Infusion Pump	**Yes/ No**	**Ref Docs Page No.**	**Remarks**
	Manufacturer			
	Brand			
	Type / Model			
	Country of Origin			
1	**Description of Function**			
1.1	The Syringe Infusion Pump provides uniform flow of fluid by precisely driving the plunger of a syringe down its barrel. It provides accurate and continuous flow rate for precise delivery of I.V. medication in critical medical care.			
2	**Operational Requirements**			
2.1	The infusion pump must be user friendly, safe to use and must have battery backup and comprehensive alarm system.			
3	**System Configuration**			
3.1	Infusion pump with battery backup alarm and with complete accessories.			
4	**Technical Specifications**			
4.1	Shall be operated on drip rate Peristaltic finger pump method.			
4.2	It shall be compatible with most of the IV set (macro/micro drip sets).			
4.3	Shall have a 2.5" LED/LCD or more display with backlight and graphical display of infusion.			
4.4	Flow Rate range: 0.1 – 1500 ml/hr			
4.5	Accumulated Volume: 0.1 ~ 9999 ml			
4.6	VTBI: 0.1-9999ml, step 0.1 ml;			
4.7	K.V.O. Rate: 0.5 ml/hr or more			
4.8	Bolus Rate :0.1-1500ml/h			
4.9	Purge Rate:more than 450mL/hr			
4.10	Shall have a flow rate accuracy of ±5% and drip rate accuracy of ±2%.			
4.11	Shall have a volume infused display from 0 to 9999.9ml.			
4.12	Shall have a purge and KVO facility.			
4.13	It shall have facility of audible and visual alarm for occlusion pressure, air alarm, door open, empty, low battery.			
4.14	3 levels alarm, low, medium, high.			
	Should have self test system			
4.15	It shall have rechargeable battery having at least 4 hours backup at highest delivery rate.			
4.16	Should be standard vertical pole mounting type			
4.17	Should support RS232 data interface			
5	**Accessories, spares and consumables**			
5.1	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 be stored and to operate			

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	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.			
7	**Standards and Safety Requirements**			
7.1	Must submit ISO13485for better Medical Devices **AND**			
7.2	Must submit CE (93/42 EEC Directives) or USFDA approved product certificate.			
7.3	Certified for meting IEC60601-2-24:Particular requirements for the safety of infusion pumps and controllers			
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 the warranty period supplier must ensure 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			
12.4	Certificate of calibration and inspection from factory.			

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