

Technical Specification Of Portable USG




Purchaser : Aathbiskot Municipality, Rukum(West)

Medical Equipment : Ultra Sound Machine

Quantity : 1 Unit

S.N.	Office Requirement	Compliance on each parameter with detailed substantiation how the offered product meets the requirement.	Remarks, if any
1	Fully digital portable ultrasound machine.		
2	The unit should have a laptop type console design. The unit should be compact, lightweight and portable.		
3	It should be suitable for abdominal, small parts and vascular applications in adults and paediatric patients. Multiple preloaded as well as user configurable application presets should be available.		
4	Minimum grey scale resolution to be 256 with 1024 or more digital processing channels.		
5	Maximum scanning depth to be 30 cm or more.		
6	The system to have a dynamic range of 165 decibels or more.		
7	The system should support Convex and Linear probes.		
8	Transducers (one each): (1) Convex electronic phased array transducer: 2-6 MHz for abdominal imaging. (2) Linear transducer: 5-12MHz MHz for vascular and small part imaging.		
9	The system should have a frame rate of at least 600 frames per second (fps) in B mode and more than 300 fps in /Colour mode.		
10	The system should have an ergonomic full alphanumeric soft keys keyboard with easy access scans controls and trackball. Provision for attaching an external keyboard and mouse should be present.		
11	The System must have integrated high – resolution TFT/LCD/Single monitor of 15 Inches or more.		

12	The system should have cine loop review facility of not less than 60 sec/1000 frames.	 काठमाडौं नगरपालिका काठमाडौं, रुकुम २०७३	
13	System should have 120 GB or higher capacity internal HDD.		
14	The system should have the facility of digital storage and retrieval of B/W and colour image data on builtin CD/DVD Drive. Provision for USB port and LAN transfer of data should also be present.		
15	Imaging modes of Real time 2D, Colour Doppler, Pulsed wave Doppler and Power (energy) Doppler should be available.		
16	Controls for 2D mode: Total gain, depth, TCG, dynamic range, acoustic power output		
17	Measurements for 2D mode: Multiple distances, area and volume.		
18	Unit should function with 200-240 V, 50 Hz AC, 5 amp power outlet. Power requirement to be specified. 24. In built battery backup should be at least one hour or more.		
19	Essential accessories: Black & White Thermal printer, mobile cart with transducer holder, jelly bottle holder and space for printer.		
20	Paper for image printouts should be provided with the unit.		
21	The unit offered must be sturdy and should be able to withstand accidental hits and falls during transportation.		
22	Warranty: The unit, transducers and all accessories should be covered with comprehensive onsite warranty for Two (2) years commencing from the date of issue of installation certificate.		
23	The unit should be United States Food and Drug Administration (FDA) and Conformité Européenne (CE) approved.		

Bidder's Signature.....

Date.....

