



सिलिचोङ गाउँपालिका

SILICHONG RURAL MUNICIPALITY

गाउँ कार्यपालिकाको कार्यालय

OFFICE OF THE RURAL MUNICIPAL EXECUTIVE

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कोशी प्रदेश, नेपाल

KOSHI PROVINCE, NEPAL



पत्र संख्या :- ०८०/०८१

चलानी नं:- ५६९

मिति: २०८०/१०/२५

विषय: दर रेट उपलब्ध गरिदिन हुन ।

श्री फर्म/कम्पनी/सप्लायर्स

सबै ।


प्रस्तुत विषयमा ग्रामीण अल्ट्रासाउण्ड मेसिन (Portable Ultrasound USG) को यसैसाथ Specification बमोजिमका उपकरणको दर रेट सात दिन भित्र उपलब्ध गराई दिन हुन अनुरोध छ ।

(भद्रबहादुर राई)

निमित्त प्रमुख प्रशासकीय अधिकृत

Technical Specification of Portable Ultrasound (USG) Machine

S.N.	Purchaser's Specifications	Bidder's Remarks
	Portable Ultrasound (USG) Machine	
	Manufacturer:	
	Brand:	
	Type/Model:	
	Country of Origin:	
1	Description of Function	
1.1	A fully Digital Portable Ultrasound system focused for OB/GYN, Abdominal, and small parts applications. The machine is intended to be carried to the field or the patient ward with the inbuilt battery system.	
2	Operational Requirements	
2.1	It shall operate on AC power supply as well as built in rechargeable battery.	
3	System Configuration	
3.1	System shall come with main unit, 1 convex probe, and a suitable carrying bag.	
4	Technical Specifications	
4.1	The portable USG machine must be notebook type with a minimum 12-inch-high resolution medical grade monitor.	
4.2	System should have built-in battery with battery backup at least 90 min. or more.	
4.3	The system should have full alphanumeric soft key board with easy access scans controls and trackball.	
4.4	System should support Linear, Phased array, convex transducer without need of any extra hardware and software.	
4.5	Main applications: OB/GYN, abdominal and small parts.	
4.6	Operating modes: B-mode, M-mode, B/M Mode, 2B mode and 4B mode.	
4.7	System should have at least one probe connection port.	
4.8	Dynamic range: selectable up to approximately 120dB.	
4.9	System must be offered with 8 TGC slide pot with independently adjustable Gain control.	
4.10	The system should have all measurement packages: Distance volume, area, circumference, ellipse, OB, GYN, Cardiology, Small part analysis, etc.	
4.11	System should have Digital zoom, Image pan, freeze, text annotation and Body markers.	
4.12	Obstetric analysis: BPD, CRL, AC, HC, FL, GS, AFI, etc. for estimation of Gestational age and Fetal Weight, Heart Rate and OB/GYN report system.	
4.13	System must be offered with function to reduce patch noise, speckle and clutter artifacts without compromising quality of images.	
4.14	Cine memory of 256 frames for cine loop playback.	
4.15	Local x 2.0 magnification rate	
4.16	Frame rate: not less than 100fps.	
4.17	Gray scale levels: 256	
4.18	Focus: adjustable	


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4.19	Image Processing: γ correction, Frame correlation, Point correlation, Line correlation, Digital filtering, Digital Edge Enhancement and Pseudo Color Processing, etc.	
4.20	Probe: 2 to 5 MHz \pm 1MHz convex probe for Obs. /Gyn. And abdominal application is to be supplied. (<i>Micro convex probe will not be accepted</i>).	
5	Accessories, Spare Parts and Consumables	
5.1	Each USG machine must be supplied with following accessories: <ul style="list-style-type: none"> • Convex Probe: 1 Nos. • Ultrasound gel bottles: 02 bottles (250ml) • A suitable carrying bag main unit. 	
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. Bidder's 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 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 meter in length.	
7	Standards and Safety Requirements	
7.1	Must submit ISO 13485 or better for medical devices.	
7.2	Must submit CE (93/42 EEC Directives) certificate or USFDA approved product certificate.	
8	User Training	
8.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly.	
9	Warranty	
9.1	Comprehensive warranty for 2 years after acceptance for the entire system.	
10	Maintenance Service During Warranty Period	
10.1	During warranty period supplier must ensure maintenance and corrective/breakdown maintenance whenever required.	
11	Installation & Commissioning	
11.1	The bidder must arrange for the equipment to be installed and commissioned by certified or qualified personnel.	
12	Documentation	
12.1	Must provide user (Operating) manual in English upon installation.	
12.2	Must provide service (Technical / Maintenance) manual in English upon installation.	
12.3	Must submit certificate of calibration and inspection from factory.	
12.4	Must submit valid authorization letter from the manufacturer.	

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