



Notice Inviting e-Tender

West Bengal Medical Services Corporation Limited
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Supply and Commissioning of Echocardiography Machine with Doppler for Department of Cardiology of R.G.Kar MCH, Kolkata

(Submission of Bid through *online*)

2nd call of Bid Reference No.: WBMSCL/NIT-063/2023; dated-13.02.2023

Bid Reference No.: WBMSCL/NIT-137/2023

Dated-20.03.2023

Amendment-I

Revised Technical Specification

Echocardiography Machine with Doppler

Specification	Specification Name	Bid Requirement (Allowed Values)
Standards	Confirmity to Manufacturer's Certification	ISO 9001 AND ISO 13845 BOTH
	The offered model should have US FDA & European CE(4 digit notified body) approval	Mandatory
	The machine should launch after 2017 or later	Mandatory
Types of Probes & Features	Cardiac and Vascular Probes Configuration	ALL
	TTE Probe Type	Adult and Pediatric
	4D TEE Adult Probe biplane and Multiplane frequency, in MHz	2 - 7.5 MHz (± 2)
	TEE Pediatric Probe Supplied	Yes
	2D TEE Pediatric Probe frequency, in MHz	3 - 8 MHz (± 2)

Specification	Specification Name	Bid Requirement (Allowed Values)
	4D Adult Cardiac probe frequency in MHz	2-5 MHz (± 1)
	2D Paediatric Cardiac Probe frequency in MHz	2-8 MHz (± 1)
	Dedicated 3D/4D volume imaging for cardiology TTE and TEE	Yes
	Live 3 D imaging in color doppler system	Yes
	Colour Doppler system with all application Packages, Quad loop for serial studies with high frame rate reviews, harmonic imaging capability in all modes and integrated stress echo package digital storage and retrieval	Yes
	Provision of Tissue Colorization (B-Colour) for improved contrast resolution	Yes
	Application software	Adult, Pediatric, Vascular and Transesophageal applications
	Cine Loop Features	Yes
	Frame grabber facility for post analysis	Yes
	Facility of Various maps for pre and post processing	Yes
	ECG trigger facility	Yes
	"Dedicated integrated dynamic stress echo package for flexible user defined protocols with stacked sub loops facility and contrast stress protocol usable for stress echocardiography"	Yes
	Number of transducer/probe ports	4
	Cardiac 3D/4D automatic Option	Yes
	Contrast Harmonic/Agent Imaging with angio mode	Yes
	Provision of Harmonic imaging in TTE, TEE and Linear Probes	Yes
	Color Doppler 3-D/4-D option	Yes
	Contrast-enhanced ultrasound (CEUS) option	Yes

Specification	Specification Name	Bid Requirement (Allowed Values)
	Tissue synchronization, tissue velocity	Yes
	Provision for higher sensitivity for low frequency doppler in all probes	Yes
	Latest generation Electronic Phased/sector array Colour Doppler system	Yes
	Number of Channels in color Doppler system	50000 or more (If channels are being designated as digital channels)
	System should be capable of generating real time live 3- D images	Yes
Image display and processing	DICOM THREE POINT ZERO COMPLIANT	Yes
	Automated B-mode (2-D) image	Yes
	Automated CDI image optimization	Yes
	Automated PW Doppler image optimization	Yes
	TOUCH SCREEN	Yes
	Monitor display size, cm (in)	21 Inch (±1)
	Monitor Display Type	OLED/HDU/LED
	Split screen	Twin View and Live Quad Screen
	Single/dual monitors	Single with optional second console
	Speckle-tracking strain and strain rate	Yes
	Stress echo	Yes
	Analysis and calculation packages	2-D wall motion tracking, 3-D wall motion tracking, cardiac, mitral valve analysis, user programmable calculations
	DVD/CD Writer	Yes
	Type of printer provided with the echo cardio machine	THERMAL PRINTER
	ECG Cable	2

Specification	Specification Name	Bid Requirement (Allowed Values)
	Echo cardiography system to be DICOM Ready	Yes
	Dicom Interfacability to HIS	Yes
	Dicom Interfacability Dicom to PACS	Yes
	Interfacability Dicom to RIS	Yes
Power Requirements	Resettable over current breaker shall be fitted for protection	Yes
	Power backup	UPS
	Back up time in minutes	60
Miscellaneous Parameters	Warranty	2 Years
	Number of installations of the echo cardiogram machines in Central/State/PSU Govt Hospitals(Note: Seller should supply a performance certificate of the device to the buyer if demanded after placement of order)	At least 3 numbers of the same quoted model
Additional Parameters	2D Speckle Tracking for LV,RV and LA	Mandatory
	4D auto LV,RV and LA	Mandatory
	ECHO Integration with cathlab	Mandatory
	4D adult TEE probe with customizable TEE probe button and wider field of view for Apex in 4D TTE probe	Mandatory