



## **Notice Inviting e-Tender**

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**Supply and Commissioning of Medical equipment for setting up of Evaluation and Cardiac Surgery Unit under Rashtrya Bal Swasthya Karyakram (RBSK) Group – A**

[3<sup>rd</sup> call Bid reference no. WBMSCL/NIT-103/2022 Dated-21.03.2022]

**Bid Reference No.: WBMSCL/NIT-382/2022**

**Dated-29.08.2022**

### **Amendment-I**

### **REVISED TECHNICAL SPECIFICATION**

#### **Item No. 1**

Echocardiography machine with Pediatric and infant and neonatal probes latest generation 4-D machine (with TEE Probes - Children and neonates

<b>Specification</b>	<b>Specification name</b>	<b>Bid Requirement</b>
Scan Modes and Performance Parameters	Cardiac 3-D freehand Option	Yes / No
	Cardiac 3-D/4-D automatic Option	Yes
	Contrast harmonic /Agent Imaging with angio Mode	Yes
	Provision for higher sensitivity for low frequency Doppler in all probes	Yes
	Color Doppler 3-D/4-D option	Yes / No
	Power Angio with color	Yes
	Contrast -enhanced ultrasound (CEUS) option.	Yes

	Tissue synchronization ,tissue velocity	Yes
	provision for higher sensitivity for lower frequency Doppler in all Probes	Yes
	Latest generation Electronic Phased/sector array Colour Doppler system.	50000 or more (if channels are being designated as digital channels )
	System should be capable of generating real time live 3-D image.	Yes with MV No analysis
Image display processing	DICOM THREE POINT ZERO COMPLIANT	yes
	Automated B-Mode (2-D) image	yes
	Automated CDI Image optimization	No
	Automated PW Doppler image optimization	yes
	TOUCH SCREEN	yes
	Monitor display size , cm (in)	21 inch or more
	Split Screen	Twin view and Live Quad Screen
	Single/dual monitors	Dual (image display and touch panel)
	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	LASER PRINTER
	Provision of PC with echocardiogram machine	yes
	Type of processor	1.7 OR LATEST
	RAM capacity of PC in GB (Hint : in case PC Not provided Put zero)	>=4
Types of Probes & Features	Conformity to Manufacturer's Certifications Cardiac and Vascular Probes Configuration	ISO 9001 AND ISO 13845

	TTE Probe Type	Pediatric, Infant & Neonate
	List of probe:	
	Pediatric TEE -1 – 2D	3-10MHz ( $\pm 2$ )
	Pediatric Phased array -1 – 2D	2.5-8 MHz ( $\pm 2$ )
	Neonatal TEE -1 – 2D	3.3-10 MHz ( $\pm 2$ )
	Neonatal phased array -1 – 2D	4-12 MHz ( $\pm 2$ )
	Micro Convex probe -1 – 2D	3-10 MHz ( $\pm 2$ )
	Linear array probe -1 – 2D	5-18 MHz ( $\pm 2$ )
	4-D TTE compatible machine	yes
	TEE Pediatric, Infant & Neonate Probe Supplied	yes
	Linear Probe for Linear /vascular applications	yes
	Pediatric, Infant & Neonate Linear Probe frequency in MHz	5-14 MHz ( $\pm 2$ ) , 5-10 MHz ( $\pm 1$ ) , Not Applicable
	No of Pediatric, Infant & Neonate TTE probe supplied	1 each
	No of Pediatric, Infant & Neonate TEE Probes supplied	1 each
	No of Pediatric, Infant & Neonate Linear Probe supplied and foetal echo probe	1 each
	Dedicated 3D/4D Volume Imaging for cardiology TTE ad TTE	yes
	Live 3D imaging in color Doppler System	yes
	Color Doppler system, with all application packages ,Quad loop for serial studies with high frame rate revise ,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	Pediatric, Infant & Neonate,Vascular
		and Transesophageal applications
	Cine loop Feachers	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
	Processor speed in Ghz	>=3
	Frame Grabber incorporated	Yes
	Connectivity between echo Cardiogram and PC	Through IMS/EQUIVALENT SOFTWARE
	PC with all software inclusive interfaced with echocardiograph machine	Yes
	Laser Color Printer provided with computer for reporting	yes
	Inkjet printer provided with computer for reporting	No
	CD/DVD produced should be playable on any system	NO CD/DVD Writer provided
	Glossy Colour Print Paper supplied	Not provided
	ECG Cable	2
	Echo cardiography system to be DICOM Ready	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
	Backup time in minutes	30
Miscellaneous Parameters	Warranty (option of comprehensive warranty is available through bidding only, which if opted will supersede normal warranty in the catalogue	2

	Number of Installation of the echo cardiogram machines in central/State/PSU Govt. Hospitals (Note : Seller should supply as performance certificate of the device to the buyer if demanded after placement of order)	MORE THAN 3
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**Additional Specifications Parameters -Echo Cardiography Scanning Machine**

<b>Specification Parameter Name</b>	<b>Bid requirement (Allowed values)</b>
4D Probe	Should be latest in technology of the bidding company
Frame Rate for 2D Echo	2800 frames/sec or More
Fusion with other Imaging modelities	yes
AI Based tools for 2D.3D/4D	yes
Certification	Should have US FDA and European CE ( 4 digit notified body) / BIS