



KENYATTA UNIVERSITY TEACHING, REFERRAL & RESEARCH HOSPITAL  
DIRECTORATE, SUPPLY CHAIN MANAGEMENT  
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TO ALL BIDDERS

**RE: ADDENDUM NO. 1 - TENDER FOR SUPPLY AND DELIVERY OF  
CARDIOLOGY AND CARDIOTHORACIC ITEMS.**

**TENDER NO: KUTRRH/TNDR/G/036/SDCCI/2020-2021.**

Pursuant to Clause 2.5 on Amendment of Tender Documents, the Hospital wishes to make the following amendments/clarifications as indicated below;

1. Clarification/Amendment

Item No 96 - Cardiology is an equipment and there are no specifications provided. Kindly provide or advise.

**Clarification; Specifications for Intra-aortic Balloon Pump and Trans-esophageal echocardiography (Cardiology items No 95 and 96) are provided below;**

## SPECIFICATIONS – Trans-esophageal echocardiography

Item No.	Tender Requirement	Complies Yes/No	Provide your answers in this Column. You are advised to be straight to the point.
<b>1</b>	<b>Basic Specs</b>		
1.1	Fully Digital high end colour doppler ultrasound unit		
1.2	Unit should offer at least a 20-inch high resolution colour monitor as the machine is intended for cardiac surgery. State the size and technology		
1.3	Unit Monitor <b>MUST</b> be mounted on an articulating arm		
1.4	Unit must be latest technology. State the year in which the unit was first manufactured as well as the Operating OS.		
1.5	System should have at least 4 Active Probe Ports		
1.6	Unit must be housed on a mobile cart with 4 Swivel Wheels		
1.7	User interface <b>MUST</b> be height adjustable		
1.8	System needs to have over 4,000,000 digital processing channels		
1.9	Image frequency needs to be 0 to 25 MHZ		
1.10	Systems dynamic range needs to be above 270dB		
1.11	System Hard Drive to exceed 500 GB Storage dedicated for Image Storage		
1.12	The system must have a 10" or larger touch command screen for ease of operations		

1.13	System must have an internal battery for quick power on after transportation		
1.14	System should have remote connectivity to enable trouble shooting		
1.15	System should be supplied with both adult & pediatric ECG Cables		
1.16	System should be supplied with both user and service manuals		
<b>2</b>	<b>Functionality</b>		
2.1	System should have all clinical analysis software for Adult, Pediatric and Neonatal Cardiac Applications		
2.2	System must be capable of a scan depth of more than 33cm to cater for obese patients		
2.3	System must have a compounding feature to aid in penetration		
2.4	System must have a variable speckle/noise reducing software		
2.5	Post processing must be available on frozen images		
2.6	Indicate if the unit is able to offer trapezoid software capabilities on all transducers.		
2.7	Real time duplex and triplex mode must be standard.		
2.8	System must allow for post-processing of stored images		
2.9	System should have a feature for real-time optimization of gain and TGC.		
2.10	System should have a single button for image optimization		
2.11	System must have an inbuilt Anti-Virus to guard against viruses		
2.12	System must have a zoom feature to utilize the entire scanning monitor		
2.13	System must have a feature for automatic doppler calculations		

2.14	System must have customizable report template		
2.15	System should have High Definition Read/Write Zoom		
2.16	System should allow users to create/save their own presets		
2.17	System must run on the latest Operating System ( State if Windows 10 Compliant)		
2.18	System must have a one-button optimization on the console to reduce exam time		
2.19	System must have Automatic Speckle Trackign Software		
2.20	System should have Intima Media Thickness Measuring Software		
2.21	The system must be DICOM 3.0 compliant		
2.22	System should have upgradable to cardiac contrast enhanced ultrasound (Contrast CEUS)		
<b>3</b>	<b>Transducers:</b>		
3.1	High frequency Linear Probe for Vascular Imaging, 4-12 MHz. State the MHz Range		
3.2	High frequency Single-Crystal Adult Cardiac Probe for Adult Cardiac Imaging, 1-5 MHz. State the MHz Range		
3.3	Pediatric Cardiac Probe for Pediatric Cardiac Imaging. State the MHz Range		
3.4	4D Adult TEE Probe for 4D Adult TEE Application, Frequency 2-8 MHz		
3.5	Pediatric TEE Probe for Pediatric TEE Application, Optimum Frequency 7		
<b>4</b>	<b>Peripherals:</b>		
4.1	A6 BW Thermal Printer		
4.2	CD/DVD writer with the required software for active use, must be standard and integrated in the system		

4.3	Recorded data on CD/DVD must be readable on any standard laptop/computer with additional software, if necessary from the supplier		
4.4	A suitable UPS must be provided and included in the tender price (Minimum 1.5 kVA True Online UPS)		
5	<b>Safety Standards:</b>		
5.1	CE Marked		
5.2	FDA Approved		
5.3	Electrical/Electronic Safety		

**Specifications for Intraaortic Balloon Pump**

1. Compact, flexible and portable
2. Touch screen monitor at least 20 inches
3. Must have at least 2 batteries
4. Faster pneumatic speeds
5. Helium tank
6. Can be used to transport patients
7. User friendly interface
8. Must have pacer detection capability

2. Clarification/Amendment

Closing Date and time

	Area	Section 2.16.1	Amended/New
1	2.16 <b>Deadline for Submission of Tenders</b>	2.16.1 Tenders must be received by KUTRRH at the address specified under paragraph 2.15.2 no later than <b>Wednesday 10th March, 2021 at 10.00 a.m.</b>	2.16.1 Tenders must be received by KUTRRH at the address specified under paragraph 2.15.2 no later than <b>Tuesday 16th March, 2021 at 10.00 a.m.</b>

All other terms and conditions remain unchanged.

KENYATTA UNIVERSITY TEACHING REFERRAL  
AND RESEARCH HOSPITAL  
**END OF TENDER ADDENDUM**  
GEO OFFICE  
04 MAR 2021  
P.O. Box 1074 - 00100 NAIROBI KE.  
TEL: 0710 642513 / 0780 900519  
SIGN:.....

**DR. VICTOR NJOM.**  
**Ag. CHIEF EXECUTIVE OFFICER - KUTRRH**