



KENYATTA UNIVERSITY TEACHING, REFERRAL & RESEARCH HOSPITAL  
SUPPLY CHAIN MANAGEMENT  
PO Box 7674- 00100 Nairobi  
Cell Phone: 0710642513/0780900519 Email: [procurement@kutrrh.go.ke](mailto:procurement@kutrrh.go.ke)

DATE: 15/11/2022

RE: ADDENDUM NO. 2 TO TENDER NUMBER: KUTRRH /TNR/G/019/ SDME/2022-2023, SUPPLY AND DELIVERY OF MEDICAL EQUIPMENT.

The above is to provide clarification on the **following** of the above-mentioned tender:

Clarification/Amendment:"

1. On "MEDICAL EQUIPMENT FOR MATERNITY (GATUNDU)" list there is no specification for the items in the list. Kindly advise what specification you need.
2. On "SPECIFICATIONS FOR HIGH-END CARDIAC ECHO MACHINE" there is no quantity indicated. Kindly advise on quantity.
3. On SPECIFICATIONS - Electric Controlled Fluid warmer machine" there is no quantity indicated. Kindly advise on quantity.
4. On Patient Beds (3 Crank + Mattress Mackintosh)" there is no quantity indicated. Kindly advise on quantity.
5. On SPECIFICATIONS - Electric Warming Blankets" there is no quantity indicated. Kindly advise on quantity.
6. On "THE ITEMS WILL BE AWARDED IN LOTS" classification of lot is not clear. Kindly clarify what is comprises a lot.

*Clarification: 1.*

GATUNDU EQUIPMENT SPECIFICATIONS.

**1. ULTRASOUND MACHINE SPECIFICATIONS – Qty 1**

System architecture ergonomic design

- 21 - 24-inch-wide HD LED screen or better - 10 Marks
- Capable to display all 2D/3D/4D Ultrasound Images in real time
- 10 - 14-inch customized Touch screen or better - 5 Marks
- 360° rotatable screen
- Four probe active or more
- Gel warmer - 6 Marks
- Four-wheel swivel - 2 Marks
- High mobility cart

- Height adjustable - 2 Marks
- Auto TGC
- THI (Tissue Harmonic Imaging)
- Cine
- Live Compare
- iSCAN intelligent scanning
- AutoSCAN (real time frame by frame TGC optimization)
- Active native data
- Sleep mode
- Battery
- Quick Charge battery technology

**Clinical Application - 5 Marks** at least 6 applications for full marks.

- Abdominal
- OB /GYN
- Radiology
- Cardiology
- Adult Echo
- Trauma
- Vascular
- Superficial
- Peripheral Access
- Lung imaging
- Musculoskeletal
- Spine & Musculoskeletal superficial
- Nerve

**Supported Transducer Types & must be supplied - 20 Marks**

- Convex Array
- Sector Array
- Linear Array
- Endovaginal Array
- matrix Array
- 3D & 4D

**Imaging Mode - 10 Marks**

- 2D mode ,3D & 4D
- M mode
- Color mode
- Color Power Angio (CPA)
- Color Compare mode
- Pulsed Wave Doppler
- Continues Wave Doppler
- Duplex mode (Simultaneous 2D and Doppler)
- Triplex mode (Simultaneous 2D, Doppler and Color or CPA)

**Main Specifications**

- Main Unit with 21-24 inch or bigger high resolution color monitor
- Sector Array Probe

- Convex Array Probe
  - Linear Array Probe
  - Convex Biopsy Kit
  - Linear Biopsy Kit
  - Endovaginal Array
  - Must be supplied with 4 probes – **5 Marks**
  - Main Unit with 21-24 inch or bigger-high resolution color monitor Wide viewing angle and automatic ambient light compensation.
  - Simplicity Mode-one-touch simplified control panel Ergo centric design of primary controls readily accessible and logically grouped Sealed, easy-to-clean tempered glass surface Experience control panel with central track pad and easy-access mode keys.
  - Color Panoramic imaging
  - Thermal Printer color - **5 Marks**
  - UPS 2kVA - **5 Marks**
  - Power supply: 100 - 240V,50Hz
  - 320 GB – 2TB hard drive or better - **5 Marks**
  - 8 TGC (Time Gain Compensation) slides
  - Intuitive Dynamic Interface without knobs or buttons
  - 360° handles for easy manipulation
  - Four transducer connectors & active - **5 Marks**
  - CE/FDA
  - User & Biomedical Technical - training for at least 5 days specialist trainers- **5 Marks**
  - HMIS integration by supplier. **5 Marks**
  - 2 years Warranty - **5 Marks**
- Pass Mark 75%**

## 2. INFANT RESUSCITAIRE SPECIFICATIONS – QTY 2

- Blender, suction, flowmeter, and positive pressure- **10marks**
- Silica quartz heater for mattress
- Auto breath; FIO<sub>2</sub>, PEEP and airway pressure relief - **10marks**
- Alarm free pre warm mode - **5marks**
- Heavy duty anti-static four castor(125mm) and two Lockable.
- Storage drawers
- Temperature probe - **5marks**
- Precise gas delivery - **5marks**
- Front-facing gauges - **5marks**
- Illumination->0.11lumens/cm<sup>2</sup> - **5marks**
- Quartz bulb type 50w/100W - **5marks**
- Set Temp Range: 34-38°C - **10marks**
- Heater output:0-100% - **10marks**
- Skin temp display:18-43°C - **5marks**
- Accuracy +/- 0.2°C (31°C to 37°C)
- Mattress width; Approx. 54 cm, length; Approx.65cm, thickness; Approx. 3cm, max Capacity; Approx. 5kg. - **5marks**
- Power supply; 100 - 240v,50Hz,750W
- Alarms- check patient in 15minutes in manual mode, temp difference of 1°C from set point, high skin temp >0.2°C, No probe, system fail, AC power interruption - **10marks**
- User training & Biomedical technical training - **5marks**
- ISO/CE

- Two-year Warranty - 5marks

### 3. INCUBATOR SPECIFICATIONS – Qty 1

- Thermoregulation system
  - Dual air curtains - 5marks
  - Thermo monitoring –monitor central and peripheral skin temperature while in skin mode - 5marks
  - Display –Trends - 5marks
  - Manually set humidity and temperature
  - Auto mode to automatically set and adjust humidity and temperature - 5marks
  - Set Temp Range: 34-38°C - 5marks
  - Heater output:0-100% - 5marks
  - Skin temp display:18-43°C - 5marks
  - Accuracy +/- 0.2°C (31°C to 37°C) - 5marks
  - Manual wide variable height/angle adjustment range - 5marks
  - Heavy duty anti-static four castor(125mm) and two Lockable- 2.5marks
  - Integrated scale and x-ray cassette - 5marks
  - Patient data transfer - 5marks
  - Condensation management system
  - Detachable humidity system - 5marks
  - Attached iv pole - 2.5marks
  - Temperature probes - 5marks
  - 3 storage swinging drawers
  - Alarm system - 5marks
  - Power supply 100 - 240v,50/60Hz - 10marks
  - User training & Biomedical technical training - 5marks
  - ISO/CE
  - Two-year Warranty - 10marks
- Pass marks 75%

### 4. CARDIOTOCOGRAPHY (CTG) Machine SPECIFICATIONS – Qty 2

- Display: At least 12" high resolution, color TFT-LCD screen - 10 Marks
- Recorder: Recording Paper: Z-fold, 150/152mm thermosensitive paper
- Standard Configuration: - 40 Marks

- ✓ Twins FHR
- ✓ TOCO
- ✓ FM
- ✓ AFM

- ✓ MECG
- ✓ NIBP
- ✓ MSpO2
- ✓ TEMP

- Fetal Movement Measurement: Detection source: Ultrasound pulsed doppler with autocorrelation - **10 Marks**
- Data Storage: 60 minutes waveform storage and playback- - **10 Marks**
- Power Supply: 100 - 240 VAC, 60Hz - **10 Marks**
- Battery: Built-in Rechargeable Battery (Li-ion) - - **10 Marks**
- Service manual & User manual in English Language
- User training & Biomedical technical training
- Two (2) years warranty on parts and service after commissioning - **10 Marks**
- conform with ISO/IEC/PNS /CE/ FDA

#### 5. CONTINUOUS POSITIVE AIRWAY PRESSURE (CPAP) MACHINE SPECIFICATIONS – Qty 1

- Bubble CPAP machine with compressor (FDA/CE/ISO13485:2012approved)- **10 Marks**
- CPAP generator with pressure range from 3 to 15 cm of water - **10 Marks**
- Capable of giving nasal/nasopharyngeal CPAP - **10 Marks**
- Integrated pneumatic Air and oxygen blender calibrated with flow from 0-15 lit/min - **10 Marks**
- Safety mechanism for relief of excessive pressure through pressure relief valve/regulator - **10 Marks**
- Soft nasal prongs.
- Alarms for the device - **10 Marks**
  - ✓ Low/high Temperature
  - ✓ Flow increase/decrease alarm
  - ✓ O<sub>2</sub> pressure low alarm
  - ✓ Air pressure low alarm
- Flow meters: O<sub>2</sub> with each piece.
- Power 100-230 volts 50/60 Hz - **10 Marks**
- Standard accessories with each equipment - **20 Marks**
  - ✓ Heated wire servo-controlled humidifier -01
  - ✓ 5 ml test lung -01
  - ✓ Disposable patient circuits 10 pcs
  - ✓ Disposable nasal prongs - 30 (10 each of different neonatal sizes)
- Two (2) years warranty on parts and service after commissioning - **10 Marks**

#### 6. MATERNITY DELIVERY BED SPECIFICATIONS – Qty 3

##### FEATURES – 50 MARKS

- Operation mechanical & hydraulic
- Features height-adjustable, Trendelenburg, reverse Trendelenburg
- Must be mounted on Heavy duty anti-static four castor(125mm) & two Lockable
- Number of sections; 3-section
- Must be easy to clean & Disinfect

- Should be durable & reliable
- Height adjustment by hydraulic pump and foot lever
- By use gas springs with a lock, it is possible to adjust the Trendelenburg and Reverse-Trendelenburg positions as well as back-rest inclination.
- Mattresses of heavy foam & covered by mackintosh (Mattress must have removable cover)
- Must have legs and knees supports as well as stainless steel bowl
- Body must be Strong structure in stainless steel/resin coated rectangular tubes
- Head must be Adjustable

**TECHNICAL DATA – 50MARKS**

- Length 1900- 2200 mm
- Total width 600-1100 mm
- Minimum height 450-600 mm
- Maximum height 800-950 mm
- Back rest inclination angle 0-75°
- Thighs segment adjustment 12°
- Trendelenburg position 12°
- Reverse-Trendelenburg position 5°
- Maximum load 200 kg

Warranty – 2 years

**7. MAJOR DELIVERY SET (GYNAECOLOGICAL SET) QTY - 5**

NO	DESCRIPTION	QUANTITY	UNIT COST (KSHS)
1	Scalpel Handle #3	1	
2	Scalpel Handle #4	1	
3	Scalpel Handle #31	1	
4	Scalpel Handle #41	1	
5	Yankauer Suction Tube Stainless	1	
6	Operating Scissor 6 -1/2" Curved SH/BI	1	
7	Pratt T-Shaped Clamp Straight 5-1/2"	2	
8	Roch-Pean Forceps Curved 8"	3	
9	Roch-Pean Forceps Straight 8"	3	
10	Roch-Ochsner Forceps Curved 8"	3	
11	Roch-Ochsner Forceps Straight 8"	3	

12	Crile Forceps Straight 6- 1/4"	6	
13	Crile Forceps Curved 6 -1/4"	6	
14	Dressing Forceps 8"	1	
15	Tissue Forceps 1x2 8"	2	
16	Russian Tissue Forceps 8"	1	
17	Russian Tissue Forceps 10"	1	
18	Mayo-Hegar NH 8"	1	
19	HeaneyNH8-1/4"	1	
20	Mayo-Hegar Serrated 7" T-C	2	
21	Mayo-Hegar Serrated 8" T-C	1	
22	Operating Scissor 5 -1/2"	1	
23	Operating Scissor 5 -1/2"	1	
24	Poole Suction Tube Slip on Standard 23 Fr	2	
25	Allis Tissue Forceps 5x6 7 -1/2"	2	
26	Allis Tissue Forceps 5x6 10"	2	
27	Backhaus Towel Clamp 5-1/4"	8	
28	Potts-Smith Dressing Forceps 8 -1/4" T-C	1	
29	Metz-Nelson Scissor Curved 9"	1	
31	Metz-Nelson Scissor Straight 9"	1	
32	Bozeman Forceps Double Curved 10"	2	
33	Foerster Sponge Forceps Straight Serrated 9-1/2"	2	

34	Mayo Dissecting Scissor Straight 9"	1	
35	Mayo Dissecting Scissor Curved 9"	1	
36	Heaney Forceps Light Single Tooth 7- $\frac{3}{4}$ "	2	
37	Heaney Forceps Heavy Single Tooth 7- $\frac{3}{4}$ "	2	
38	Phaneuf Uterine Artery Forceps Angled 8"	2	
39	De Alvarez Forceps 8- $\frac{1}{4}$ "	2	
40	Eastman Retractor Small 3" x 1- $\frac{1}{2}$ "	1	
<b>TOTAL COST</b>			

#### 8. PORTABLE EXAMINATION LAMP SPECIFICATIONS – Qty 3

- Examination arm, pentagonal base with 5 anti-static Castors/wheels (size 125mm castors with two-opposite Lockable)- **10marks**
- 7500 lux /1meter with filter or better - **10marks**
- Minimum height 1200-Maximum height 1900mm - **5marks**
- Flexible neck that can move at all angles - **5marks**
- Lamp head with reflector rotation at least 330 degrees - **5marks**
- Head diameter approx. 100mm or bigger - **5marks**
- LED bulbs with cool clear light - 12V -50W/100W or better - **10marks**
- Total light intensity 48000- 100,000 lux/0.5 m or better - **10marks**
- Color temperature 3200-degree Kelvin without filter and 4000-degree Kelvin with filter or better - **10marks**
- Colour rendering index 100 or better - **5marks**
- Focus diameter 130mm/m or bigger - **5marks**
- Power input 100 - 230v-50/60Hz - **10marks**
- Have an integral rechargeable battery - **5marks**

- Warranty: At least one year after commissioning - **5marks**
- Standard based on Din 5035 or IEC 60601 or CE/FDA

## 9. ELECTRIC SUCTION MACHINE TECHNICAL SPECIFICATIONS – Qty 1

### A) DIMENSIONS:

- Height  $\leq$  35 cm
- Width  $\leq$  35 cm
- Length  $<$  25 cm
- Weigh  $\approx$  10 kgs

### B) PERFORMANCE

- ✓ Power Requirements - Mains input(3 Pin Plug BS std cable atleast 3metres long) 100-240v a.c 50/60Hz – **20marks**
- ✓ Vacuum - 650mmHg Max – **20marks**
- ✓ Maximum airflow rate Aprox 50 Ltrs/min - **10marks**
- ✓ Collection jars – 2 x 2L impact resistant (should NOT be glass) - **10marks**
- ✓ Hydrophobic filter (5 Pcs More) - **10marks**
- ✓ Jar Lid with overflow switch- must - **10marks**

### C) Mandatory - 20marks (each 2marks)

- Must have all accessories required for intended use (Autoclavable silicon tubing- pair).
- Must have hand and foot control.
- Must have an **antibacterial filter** on the suction side (5 PCS more).
- Must have a user / operator manual – (hardcopy).
- must have a technical / service manual (hard Copy).
- supplier must provide user training.
- Electric motor must be totally enclosed (Motor voltage 100-240 VAC 50/60 Hz)
- Must have Heavy duty anti-static four castor(125mm) and two Lockable.
- must have one-year warranty.
- Should be CE/FDA marked.

## 10. PATIENT ELECTRIC HEATER. - Qty 3

- Power Requirements - Mains input (3 Pin Plug BS std cable at least 3metres long) 100-240v a.c 50/60Hz – **40marks**
- Two Elements – **40marks**
- Main powering switch – **20marks**

Pass marks 70%

## 11. Patient couch Steps – Qty 4

- Dimensions: 30\* 38\* 18cm. **20 Marks**

- 2 steps. 20 Marks
- Non -slip. 20 Marks
- Stainless steel. 20 Marks
- Non slippery foot stands. 20 Marks

Pass Mark 75%

12. Medical Exam stool with backrest – std – Qty 4

- Must be mounted on Heavy duty anti-static five castors(125mm) and two Lockable. – 40marks
- Stainless steel body - 10 Marks
- Compact circular shape is ideal for exam stools
- Back Height approx. 10 Inches - 5 Marks
- back features approx.2” thick upholstered foam - 5 Marks
- Thick upholstered high-density seat foam approx. 3” - 10 Marks
- With Hydraulic Height adjustable - 10 Marks
- Must be antimicrobial vinyl seat - 10 Marks
- Weight capacity – 200Kg - 10 Marks

Pass marks 70%

2. The High- End Cardio Echo Machine Quantity is “1 Piece”
3. The Electric Controlled Fluid warmer machine Quantity is “1 Piece”
4. The Patient Beds (3 Crank + Mattress Mackintosh) Quantity is “8 Pieces” each,8 beds and 8 Bed-side Lockers.
5. The Electric Warming Blankets Quantity is “2 Pieces”
6. All the Lots have a Total Cost Row on the bottom of the respective lists. Those are the “Lots”

*“The Tender Opening Date change from 16<sup>th</sup> November 2022, 10:00 a.m., to 22<sup>nd</sup> November 2022,10:00 a.m.”*

All other terms and conditions remain unchanged.

AHMED DAGANE, RN, BA, BSN, MBA-HCM  
CHIEF EXECUTIVE OFFICER

JM/pn

END OF TENDER ADDENDUM

