

**Amendment No. 2**

**Date: 15/09/2014**

**Subject: Subject: Amendment to the Tender Enquiry Document**

**Ref: NIT No.: HLL/PCD/GNCTD/10/GBPH/14-15 dated 31/07/2014 read with its Amendment no.1 dated 06.09.2014**

The following changes have been incorporated in the referred NIT.

**SECTION VII  
Technical Specification**

**Item No. 1**

**Variable Stiffness Adult Video Colonoscopy System**

**1. Existing:- Para**

- Compatible **scope guide system** to display entire scope configuration (1 No.)  
**Read as: - Deleted.**

**2. Existing:- Para**

- Compatible Video Processor (1 No.)- high resolution imaging capacity. HDTV compatible, DV out function, capable of special imaging like NBI/FICE/I-Scan

**Read as:**

- Compatible Video Processor (1 No.)- high resolution imaging capacity. HDTV compatible, DV out function, capable of special imaging like NBI/FICE/I-Scan/**SPICE**

**Item No. 2**

**Tissue Embedding Station**

**1. Existing:-Para 3:** Paraffin reservoir capacity at least 3 litre to be able to make 300 blocks.

**Read as: -** Paraffin reservoir capacity at least 3 litre

**2. Existing: - Para 4:-** Paraffin reservoir temperature setting range from 45c to 70c or better.

**Read as: -** Paraffin reservoir temperature setting range from **55 to 70°C** or better

**3. Existing: -Para 5 :-** Separately heated paraffin dispenser with temperature 45c to 70c or better.

**Read as: -** Separately heated paraffin dispenser with temperature **55 to 70°C** or better.

**4. Existing: -Para 9 :-** Mold warmer temperature 45c to 70c or better.

**Read as: -** Mold warmer temperature **55c to 70°C** or better.

**5. Existing: -Para 10 :-** Work surface temperature from 45c to 70c or better, should have pores for drainage of excess molten wax along with paraffin collection tray for excess molten wax

**Read as: -** Work surface temperature from **55 to 70°C** or better, should have pores for drainage of excess molten wax along with paraffin collection tray for excess molten wax.

**6. Existing: -Para 17** Electrically heated forceps -2.

**Read as: - Forceps -2.**

**7. Existing: -Para 18** Stainless steel base molds of sizes 7x7x5mm; 15x15x5mm; 24x24x5mm: 30x24x5mm 37x24x5mm; 24x12x12-12 pcs each.

**Read as: -** Stainless steel base molds of sizes 7x7x5mm; 15x15x5mm; 24x24x5mm: 30x24x5mm 37x24x5mm; **24x24x12** -12 pcs each.

**8. Existing: -Para 19** Metal lids for embedding cassettes -100

**Read as: - Change to plastic jet cassettes with lid to be provided-10,000.**

**Added para :-**

**1. Food switch for hands free on/off of paraffin flow.**

**2. The equipment should be USAFDA/ European CE approved product.**

### **Item No. 3**

#### **Semi-Automated Rotary Microtome**

**1. Existing: Para : 3** Integrated lockable hand wheel capable of being locked in any desired position.

**Read as:-** Integrated lockable hand wheel.

**2. Existing: Para : 13** Universal knife holder base and knife holders for high and low profile disposable blades holder for disposal knives (both low and high profile) as well as steel knives to be provided.

**Read as: - Capable for being used with both low and high profile disposable blades.**

**3. Existing: Para : 15-** Spare low and high profile blades in dispenser pack of 50 blades. 20 packets each and Microtome Lubricant oil 5 Bottles. Spares to be provided by part wara

**Read as:-** Spare low and high profile blades in dispenser pack of 50 blades. 20 packets each and Microtome Lubricant oil 5 Bottles.

### **Item No. 4**

#### **Flat Panel Single Plane Cardiac Cath-Lab along with Accessories**

**1. Existing: Para : 1.0 C-Arm / G Arm Multi-directional floor/ceiling mounted**

1.1. All movements should be motorized with C-Arm angulations of minimum RAO/LAO + 110 deg. / -110deg. CARN/CAUD + 45 deg. At head end position. With 20 deg./sec. or more speed for LAO/RAO AND 15 deg./sec or more speed for CARN / CAUD.

**Read as:**

1.1. All movements should be motorized with C-Arm angulations of minimum RAO/LAO +**105 deg. / -105 deg.** CARN/CAUD + 45 deg. At head end position. With 20 deg./sec. or more speed for LAO/RAO AND 15 deg./sec or more speed for CARN / CAUD.

**2. Existing: Para : 6.4** System should have capability of ECG display on the live image monitor and archive the ECG display along with angio images on CD, during the acquisition.

**Read as:-Deleted.**

**3. Existing: Para : 6.5** System should have on-line & off-line validated coronary analysis and ventricle analysis program. The software should have Auto calibration facility for stenosis

measurement with geometrical and densitometry calculations. The analysis should be possible from table side in the examination room and from the control room.

**Read as:-Deleted.**

**4. Existing: Para: 10.0 CATH LAB RECORDING SYSTEM**

10.7 One work station for off line Anglo viewing and recording.

10.8 Patient data management for off line one thousand Angio.

**Read as:**

10.7 Five **work station** for off line Anglo viewing and recording.

10.8 **System should be supplied with image storage server with at least 10 TB RAID storage and two work stations to store images.**

**5. Existing: Para: 15.0 ACCESSORIES**

**Added Para:**

F. Ceiling Light.

**6. Existing: ANNEXURE-1 SITE MODIFICATION TURNKEY PROJECT**

**Added Para:**

2. a) Turnkey Area- 3000 Sq. feet.

**Item No. 5**

**4D (Live 3D) Echocardiography Color Doppler System**

**1. Existing Para: B. Technical Specifications:**

12. Should have facility for two dimensional strain rate imaging with longitudinal, radial and circumferential strain rate and strain measurements. Also rotation and torsion measurement to be available.

13. Three dimensional (4D) strain rate imaging and strain measurement to be available in all possible dimensions. Mention in detail in technical bid.

16. Should have a minimum 17-inch Monitor, preferably a Flat Panel type.

22. Softwares for off-line strain quantification to be provided for analysis on a personal computer on DVD. The software should be able to do all quantification in 2D and 4D both including longitudinal, circumferential and radial strain rate and rotation and torsion measurements.

**Read as:**

12. Should have facility for two dimensional strain rate imaging with longitudinal, radial and circumferential strain rate and strain measurements. Also rotation and torsion measurement to be available. **Online/Off line on personal computer.**

13. Three dimensional (4D) strain to be preferably, provided with 3D quantification in all possible dimensions.

16. Should have a minimum **19-inch Monitor, preferably a Flat Panel type.**

22. Softwares for off-line strain quantification to be provided for analysis on a personal computer on DVD. The software should be licensed and permanent to do all quantification in 2D and 4D both including longitudinal, circumferential and radial strain rate measurements

**Added Para:- In point no. B.14**

**3D Mitral valve quantification software to be provided online/offline.**

### **Item No. 6**

**Existing name of Item: - Mechanical Chest Compressor**

**Read as:- Non-Invasive Mechanical Chest Compressor**

**1. Existing Para: Standard Accessories** (for following points)

- Three reusable Suction cup (one reusable suction cup usable-for 100 patients).
- One Battery.
- Patient straps to secure the patient's arms to the support legs of the device.
- Stabilization strap to secure LUCAS position on the patient's chest.
- External power supply - can be connected to unit and 110 - 230V, AC wall outlet for continuous run of the unit and simultaneous charge if the battery in the unit.
- CE & US FDA certified.

**Read as:-**

- 12 reusable Suction cup/ life bands to be supplied.
- 6 Nos. battery.
- Patient straps to secure patient arms during chest compression.
- Deleted.
- External Power supply charger should be supplied to charge the batteries.
- European CE and/or US FDA certified

**Added Para:-**

- 1 .It should have ability to measure chest compression rate and depth in real time with visual feedback on screen with rate and depth indicator. (Optional)**
- 2. Defibrillator should have facility for ECG monitoring, defibrillation, external pacing (transcutaneous) and recorder.**

### **Item No. 8**

#### **Digital EEG Machine – 32 Channel**

**1. Existing Para :**

3.1 Hardware:

2. Number of EEG Channels should be minimum of 32 with color coding, Should have eight channels for Polygraphy.

**Read as:**

3.1 Hardware:

2. Number of EEG Channels should be minimum of 32 with color coding.

### **Item No. 9**

#### **ICU EEG Machine**

**1. Existing Para :**

2.1 Hardware:

1. Should be mounted on a movable trolley with minimum following specifications:  
8 GB DDR RAM, 2 TB HDD, CD/DVD RW, 22" medical grade, LCD or TFT Display, External Optical Key Board & Mouse and UPS.
2. Number of EEG Channels should be minimum of 32 with color coding,

Should have eight channels for Polygraphy.

5. The system should have 32 active channel with minimum 06 biological channels capable of spectral analysis, marking annotations, change of sensitivity, printing of Epoch of interest.

**Read as:**

2.1 Hardware:

1. Should be mounted on a movable trolley with minimum following specifications: Laptop Intel I5, 8 GB DDR RAM, 1 TB HDD, CD/DVD RW, 15.6" LCD and UPS.
2. Number of EEG Channels should be minimum of 32 with color coding.
5. The system should have 32 active channels capable of spectral analysis, marking annotations, change of sensitivity, printing of Epoch of interest.

**2. Existing Para :**

3.2 A Accessories should include:

2. 50 boxes of 10-20 conducting paste for EEG
4. Mountable Trolley supplied by the Principal

**Read as:**

3.2 A Accessories should include:

2. 50 boxes of **10-20/conducting** paste for EEG.
4. Mountable Trolley supplied should be of good quality and customer satisfaction.

**Item No. 10**  
**EMG/ EP/NPV Machine**

**1. Existing Para: VIII- System should be supplied with**

- i) Trolley supplied by the principle.

**Read as:**

- i) Trolley supplied by the principle or any other indigenous manufacturer and should be covered under warranty & CMC.

**Item No. 11**  
**Mobile C-Arm Image Intensified With DSA**

**1. Existing Para: 3. C- arm**

Fully counterbalanced Iso-centric C-arm having,

**Read as:**

Fully counterbalanced **Non-Isocentric** C-arm having,

**2. Existing Para: - 5. Digital System**

- Road mapping, vascular stenosis quantification.
- On-line subtraction with 25 images per second.

**Read as:**

- Road mapping,
- On-line subtraction with **20 images** per second

**3 Existing para 4 – T.V. system**

- Image intensifier should be of size 12" with zoom facility.
- The television camera should be of CCD type with motorized facility rotation and acquisition in 1024x1024.

**Read As –**

- The system should have a flat detector for excellent resolution and minimum noise.
- The size of the detector should be at least 25x25 cm
- The pixel size should be 200 micron or less. Dynamic range should be at least 70 dB. The latest and highest model is to be quoted.

**Added Para: - 1. X-ray tube should focal spot:0.3 & 0.6.**

**Item No. 12**

**Fully Automated Bio-Chemistry Analyser**

**1. Existing Para: - 6. Reagent section:**

Refrigerated position for at least 50 reagent containers with temperature control of 4-8° C or better

**Read as:**

Refrigerated position for at least 50 reagent containers with temperature control of **5-15 °C** or better

**2. Existing Para: - 8. Reagent probe:**

b) Should be able to aspirate and deliver reagent volume from 20ul-400ul or better

**Read as:**

b) Should be able to aspirate and deliver reagent volume from **20µl-400µl** or better.

**3. Existing Para: - 13. Photometer:**

Multi wavelength diffraction grating photometer capable of selecting wavelengths from 300 to 800 nm. Monochromatic, bichromatic and polychromatic mode.

**Read as:**

Multi wavelength diffraction grating photometer capable of selecting wavelengths from **300 to 800 nm**. Monochromatic, bichromatic and polychromatic mode.

**4. Existing Para: - 21. Hard Ware and Accessories**

**Added para: c)** The successful vendor shall have to provide interfacing of the main & backup equipment with distant computer or LIS/HIS as applicable with in the distance of 20 meter site of instrument.

**5. Existing Para: - 22.**

Comprehensive maintenance of the equipment with respect to all spares, accessories of the type of tubes, pump, syringe, lamp, electrodes, reference membrane, stirrers, PCB (electronic boards), deionizer plant resins, batteries etc. for ten years is to be done by the vendor at no additional cost to the buyer. No accessories/ spares/resins/ batteries/ maintenance kits or equipment parts will be purchased by the user department for the main equipment, the deionizer and the UPS during the 10 year warranty period.

**Read as:**

Comprehensive maintenance of the equipment with respect to all spares, accessories of the type of tubes, pump, syringe, lamp, electrodes, reference membrane, stirrers, PCB (electronic

boards), deionizer plant resins, batteries, **printer cartridge etc.** for ten years is to be done by the vendor at no additional cost to the buyer. No accessories/ spares/resins/ batteries/ maintenance kits or equipment parts will be purchased by the user department for the main equipment, the deionizer and the UPS during the 10 year warranty period.

**6. Existing Para: - 23. Reagents and Consumables.**

25.\* All Antiepileptic drugs, Trop-t, magnesium, LDH, Gamma GT, Ammonia at consumption rate of two hundred tests per year IN A SEPARATE LINE for each test.

**Read as:**

25. All Antiepileptic drugs (**phenytion, Phenobarbital, carbamezepine & vaiproate**), Trop-t, magnesium, LDH, Gamma GT, Ammonia at consumption rate of two hundred tests per year IN A SEPARATE LINE for each test.

**All other contents of the tender enquiry including terms & conditions remain unaltered.**

**Note: Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids**