Amendment No. 7

Date: 19/02/2016

Sub: Amendment to the Tender Enquiry Document

Ref: NIT No.: HLL/PCD/PMSSY/AIIMS-II/25/15–16 dated 14/10/2015 and subsequent amendments

The following changes have been incorporated in the referred NIT.

Item No. 06
Water Purification System

1. **Existing Specification:**
   Para 1. i. Resistivity **at 25 degC : > 5 Mega-Ohm -cm**

   Read as:

   Para 1. i. Resistivity **with 10 to >15 MOhms-Cm instead of >5 MOhms-cm which is not UV grade**

2. **Existing Specification:**
   Para: 5- The system should be table top model with on line conductivity & LCD display facility, flow rate up to 1.5 L/min, Dual purification cartridges with organic absorbents, ion exchange resins and membrane processes to purify the water to **> 5 mega ohms- cm** in order to satisfy ASTM TYPE 1, ISO 3696 and USP Specification, The system should have a pure water recirculation system to maintain consistent peak quality.

   Read as:
   Para: 5- The system should be table top model with on line conductivity & LCD display facility, flow rate up to 1.5 L/min, Dual purification cartridges with organic absorbents, ion exchange resins and membrane processes to purify the water to **> 18 mega ohms-cm** in order to satisfy ASTM TYPE 1, ISO 3696 and USP Specification, The system should have a pure water recirculation system to maintain consistent peak quality.

   Added Para:

   1. **Two stage system should have RO and UV/HPLC grade purification facility and water quality of minimum specification of :**
      vi. Flow rate > 10 litre/hr

   2. **It should be USFDA or European CE certified product.**

Item No. 07
ECG Machine 12 Channel

1. **Existing Specification:**
   Para 9. Literal and graphic operation interface

   Read as:
   Alphanumeric and graphic operation interface.

2. **Existing Specification:**
   Para 15. It should provide **15 -20 boxes** of disposable electrodes
   Read as:
   Para 15. It should provide **15 boxes** of disposable electrodes..

3. **Existing Specification:**
   Para 16. It should provide 10-15 paper rolls.

   Read as:
   It should provide 10paper rolls.

4. **Existing Specification:**
   Para 17. It should provide **5-10 Gel bottle**.

   Read as:
   Para 17. It should provide **5Gel bottle.**

5. **Existing Specification:**
   Para 18. Certifications and standards: **US FDA / European CE / BIS** approved product.

   Read as:
   Certifications and standards: **US FDA / European CE** approved product.

Item No. 09
Centrifuge Capillary

1. **Existing Specification:**
   Para: 2: Rotation **upto 16,000 rpm** adjustable in increments of 100

   Read as:
   Para: 2: Rotation **minimum should be 13,000 rpm** adjustable in increments of 100

2. **Existing Specification:**
   Para: 9. Noise level less than **40 dB**

   Read as:
   Para: 9. Noise level less than **56 dB**

Item No. 13
Refrigerated Blood Bag Centrifuge for Marking Blood Components

3. **Existing Specification:**
   Para: 10: Documentation:

Should have software which should be compatible with hospital information system of respective AIIMS and /or Blood Bank software any interfacing required must be provided by the firm.

Read as:
Deleted

4. **Existing Specification:**
   Para: 17.7: Firm will have to supply the stabilizer with the equipment

   Read as:
   Para: 17.7: Firm will have to supply the **10 KVA** stabilizer with the equipment

5. **Added Para:**
   Installation & validation is responsibility of the supplier.

Item No. 15
Platelet Incubator with inbuilt Agitator

1. **Existing Specification:**
   Para: 13: Graphical display of agitation speed of the agitator

   Read as:
   Deleted

Item No. 16
Blood Bank Cryo-Bath

1. **Added Para:**
   Installation & validation is responsibility of the supplier.

Item No. 17
Centrifuge & incubator for column agglutination technique by glass bead/Gel cassettes for Immuno hematology

1. **Added Para:**
   Installation & validation is responsibility of the supplier.

Item No. 18
Electronic Analytical Balance

1. **Existing Specification:**
   Para: 10: Glass shield cabinet.

   Read as:
   Para: 10: Glass**/equivalent** shield cabinet

Item No. 22
Microbiological Autoclave (Horizontal)

1. **Existing Specification:**

   Para 4. The unit should have third party certification for all the below given standards
   a) European CE or USFDA.

   Read as:
   "The unit should have third party certification for all the below given standards.
   a) European CE or USFDA **and should also comply with EN 285 standards".**

2. **Existing Specification:**

   Para 7. The chamber, jacket, door and pipes should be made of stainless steel AISI 316 or higher quality.

   Read as:
   The "Chamber, Jacket, door and **all process** pipes should be made of **AISI 316L** or Higher Quality"

3. **Existing Specification:**

   Para 8. The door should have two locks, one automatic and one manual.

   Read as:
   The unit should have **automatic sliding door** with safety features.

Item No. 23
Biosafety cabinet CLASS II A

1. **Existing Item Name:**

   Biosafety cabinet CLASS II A

   Read as:
   Biosafety cabinet **CLASS II A II**

2. **Existing Specification:**

   Para 2: Motor must automatically adjust the air flow speed to ensure continuous safe working condition. Air flow shall be as per requirements of Biosafety regulations in respect of at least BSC II A level cabinet.

   Read as:
   Para 2: Motor must automatically adjust the air flow speed to ensure continuous safe working condition. Air flow shall be as per requirements of Biosafety regulations in respect of at least **BSC II A II** level cabinet.

3. **Existing Specification:**

   Para 12: Movable stands.

   Read as:

   Para 12: Movable / fixed stands.

Item No. 29

Ultra pure (Nuclease free) Water Purifications System

1. **Existing Specification:**

   Para C - TYPE 2 RO Stage Water Quality:
   3. Resistivity: 5-15 cm.

   Read as:
   Para C - TYPE 2 RO Stage Water Quality:
   3. Resistivity: 5-15 **M Ohms-cm**.

2. **Existing Specification:**

   Para C.9. One pair of extra cartridge.

   Read as:
   Para C.9. All consumables should be included for warranty period **(Price of consumables required for the entire warranty period should be quoted separately).** Also provide unit rate for each consumable which will be fixed for the warranty period.

3. **Added Para under D Ultra pure water machine producing water of the following quality:**
   Para D.7. All consumables should be included for warranty period **(Price of consumables required for the entire warranty period should be quoted separately).** Also provide unit rate for each consumable which will be fixed for the warranty period.

Item No. 30

U.V/Visual Spectrophotometer

1. **Existing Specification:**

   Para 10: Minimum sample size 0.5 microlitre.

   Read as:
   Deleted.

Item No. 36
Binocular Microscope for Faculty

1. **Existing Specification:**
   Para 3. Choice of different powers of objectives (long barrel 4X, 10X, 40X spring, 100X oil, spring).Objectives should be plan apochromatic.

   Read as:
   Choice of different powers of objectives (long barrel 4X, 10X, 40X spring, 100X oil, spring). Objectives should be **Plan Achromat.**

2. **Existing Specification:**

   Para 12: High resolution Digital Camera with resolution: 12.0 mega pixels.

   Read as:
   High resolution Digital Camera with resolution: **5 mega pixels or more**.

3. **Existing Specification:**

   Para 13: USB to PC connection.

   Read as:
   USB**/Firewire** to PC connection.

4. **Existing Specification:**

   Para 14: Macro viewing tube.

   Read as:
   Deleted.

5. **<u>Added Para:</u> Demonstration of quoted model should be provided (if required).**

Item No. 37
Dark Ground Microscope with Phase Contrast

1. **Existing Specification:**
   Para 4: Observation Tube : Widefield tilting, telescopic and lifting binocular.

   Read as:
   Observation Tube : binocular.

2. **Existing Specification:**

   Para 6 : Phase contrast, darkfield (N.A. 1.1), [phase contrast: for 10x–100x, darkfield: for **10x–100x** (upto N.A. 0.80)].
   Para 7: Universal (N.A. 0.9), for **1.25x–100x** [swing-out: 1.25x–4x, with oil top lens:(N.A. 1.4)].

Read as:
Universal Condenser for Bright field, phase contrast and dark field up to 40X
Achromat objective for bright field and dark field observation **- Achromat objective 4X, 10X, Ph, 40X, Ph and 100X oil with iris for bright field and dark field observation.**

3. **<u>Added Para:</u> Demonstration of quoted model should be provided (if required).**

Item No. 38
Lyophilizer

1. **Existing Specification:**

Para 2: The system should have Microprocessor Controlled LCD system.

Read as:
The system should have Microprocessor Controlled **LCD / LED/Digital system.**

Item No. 44
Fluorescent Microscope

1. **Existing Specification:**

Para 1: Microscope should have reversed sextuple revolving nosepiece to accommodate five objectives at a time.

Read as:

Para 1: Microscope should have reversed sextuple revolving nosepiece to accommodate **six** objectives at a time.

2. **Existing Specification:**

Para 4: Siedentopf design super wide filed Trinocular eyepiece tube which should be inclined at 25 degree angle with field of vision (F.O.V.) should be 22mm/25 mm or better.

Read as:
Para 4: Siedentopf design super wide filed Trinocular eyepiece tube which should be inclined at **25-30 degree angle** with field of vision (F.O.V.) should be 22mm/25 mm or better.

3. **Existing Specification:**

Para 13: High intensity transmitted fluorescence system light emitting diode (LED) blue and green red wavelengths.

Read as:
Para 13: High intensity transmitted **100W halogen illumination** & reflected fluorescence system **130W mercury /** Light emitting diode (LED) blue, green and red wavelengths.

4. **Existing Specification:**

   Para 18: Image analysis software for histological application.

   Read as:
   Para 18: Image analysis software **with capturing, live viewing, AVI recording, measurements, annotation and multi-channel fluorescence imaging.**

5. **Existing Specification:**

   Para 19: Digital camera with 12.5 mega pixels.

Read as:
Para 19: Digital Camera: Scientific grade Color Digital Camera of 12.5 MP **having live imaging and capable to capture bright field and fluorescence images.**

6. **<u>Added Para:</u>**
   i. Demonstration of quoted model should be provided (if required).

Item No. 45
Inverted Research Microscope for Bright field, Phase Contrast, fluorescence, along with High Resolution Digital Image Analysis System

1. **Existing Specification:**

   Para B Condenser: Universal turret condenser (suitable for all microscopy techniques) with 5 positions.

   Read as:

   Para B Condenser: Universal turret condenser (suitable for all microscopy techniques) with **4-5** positions.

2. **Existing Specification:**

   Para E Nosepiece: Sextuple revolving nosepiece to accommodate five objectives at a time.

   Read as:

   Para E Nosepiece: Sextuple revolving nosepiece to accommodate **six** objectives at a time.

3. **Existing Specification:**

   Para F Stage**:** Rectangular universal mechanical stage

   Read as:

   Para F Stage**:** Rectangular universal mechanical stage – **for holding Plates, glass slide, etc.**

4. **Existing Specification:**

   Para G Objectives: Plan Fluorite Objectives suitable for Bright field/Phase Contrast/fluorescence/ DIC Observation with facility of cover glass correction. 4X , 10X, 20X , 40X.

   Read as:
   Para G Objectives: Plan Fluorite Objectives suitable for Bright field/Phase Contrast / fluorescence with facility of cover glass correction.4X , 10X, 20X , 40X
   Plan Flour 4x (BF) and 10x for Bright field (BF), Phase and Flour Long working distance objective with Collar correction ring and spring loaded on Plan Flour 20x and 40x objectives.

5. **Existing Specification:**

   Para I Digital Camera:
   Digital Color Camera capable of Handling Very Low Light, Fluorescence, Darkfield or Dic Images with 2/3" High Density CCD/CMOS Chip, Approx. 12.0 Million pixel resolution (2200 TV Lines), 15 f/p/s with full screen Size, Cooling 10ºC below Ambient, 12-Bit Digitization, Exposure Time 1/16,000 to 60 sec., Dynamic Range 2000:1, USB port for attaching camera onto Desktop/Laptop through single wire.

   Read as:
   Para I Digital Camera:
   Digital Color Camera capable of Handling Very Low Light, Fluorescence, Darkfield or DIC Images with 2/3" High Density CCD/CMOS Chip, Approx. 12.0 Million pixel resolution (2200 TV Lines), 15 f/p/s with full screen Size, Cooling 10ºC below Ambient **(if required)**, 12-Bit Digitization, Exposure Time 1/16,000 to 60 sec., Dynamic Range 2000:1, USB port for attaching camera onto Desktop/Laptop through single wire.

6. **Added Para: Demonstration of quoted model should be provided (if required).**

Item No. 52
Drug Cart

6. **Existing Specification:**
   Para 7: All drawers should be lockable individually.

   Read as:
   Para 7: All drawers should be lockable individually **or centrally**.

Item No. 53
Flexible Intubation Endoscope with monitor and recording facility for adult and pediatric use

1. Existing Specification:
Para: 1. Flexible Intubation Endoscope with **CMOS chip** on tip for digitally transferring the image to the screen. Intubation Endoscope to display Full Frame. The image can be displayed directly on a integrated TFT monitor.

Read as:
Para: 1. Flexible Intubation Endoscope with **CMOS/CCD chip** on tip for digitally transferring the image to the screen.
Intubation Endoscope to display Full Frame. The image can be displayed directly on a integrated TFT monitor.

2. Existing Specification:
Para: 2. It should have a process to process **CMOS video** on screen and also to send signal to endoscope to illuminate internal LED light for producing light to display surgical area.

Read as:
Para: 2. It should have a process to process **CMOS/CCD** video on screen and also to send signal to endoscope to illuminate internal LED light for producing light to display surgical area.

3. Existing Specification:
Para: 8. TUBE HOLDER should be a part of standard accessory

Read as:
Deleted

Item No. 54
Syringe Infusion Pump

1. Existing Specification:
Para 6. Display of Drug directory of more than 50 drugs, **customized and adjustable.**

Read as:
Para 6. Display of Drug directory of more than 50 drugs

2. Existing Specification:
Para 14. Rechargeable Battery having at least **1 hours backup** for about 5ml/hr flow rate with 50ml syringes. Larger battery life and indication of residual life will be preferred.

Read as:
Para 14. Rechargeable Battery having at least **4 hours backup** for about 5ml/hr flow rate with 50ml syringes. Larger battery life and indication of residual life will be preferred.

Item No. 56
ICU ventilator

1. **Existing Specification:**
   Para 2. Screen should be minimum of 12” inch or more and integrated.

   Read as:
   Para 2. **Single integrated screen with size 12" or more**

2. **Existing Specification:**
   Para 4.e. Advanced mode like Pressure Regulated volume control **mode and volume support mode.**

   Read as:
   Para 4.e. Advanced mode like Pressure Regulated volume control mode

3. **Existing Specification:**
   Para 5. b. PEEP upto 30 cmH2O or more

   Read as:
   Para 5. b. PEEP **upto 25 cmH2O** or more

4. **Existing Specification:**
   Para 5. c. Pressure support upto 35 cmH2O

   Read as:
   Para 5. c. Pressure support **35 cmH2O or more**

5. **Existing Specification:**
   Para 5.i. Inspiratory and Expiratory flow and pressure Trigger Sensitivity.

   Read as:
   Para 5.i. **Should have flow and pressure Trigger Sensitivity.**

6. **Existing Specification:**
   Para 7. In-line Nebuliser with capability of producing < 3 micron drug particle

   Read as:
   Para 7. In line ultrasonic nebulizer with reusable chamber

7. **Existing Specification:**
   Para 13. Should have the facility for ETCO2 measurement **(optional)**

Read as:
Para 13. Should have the facility for ETCO2 measurement

8. **Existing Specification:**
Para 18. Should be supplied with 2 nos Reusable Silicon adult the 1 no Pediatrics tubing's and imported humidifier and 2 nos ultrasonic nebulizers chambers.

Read as:
Para 18. Should be supplied with 2 nos Reusable Silicon adult the 1 no Pediatrics tubing's and imported humidifier and 2 nos **ultrasonic nebulizers ultrasonic nebulizer with reusable chambers**

9. **Added Para:**
   i. **Adult & Paed disposable breathing circuits-50 each**
   ii. **NIV masks-L,M,S : 2 each**
   iii. **One no. of expiratory valve/block should be provided with each ventilator**
   iv. **Flow sensors - Should be covered under warranty with free supply**

Item No. 59
Pulse Oximeter

1. **Existing Specification:**
Para 3.6: Alarm override facility

Read as:
Para 3.6 Should have alarm Override facility/ alarm silence button.

2. **Existing Specification:**
Para 3.8 Interface for data communication.

Read as:
Para: 3.8 Should have RS 232/ USB port for data communication.

Item No. 60
Fibroscopic Bronchoscope –ADULT

1. **Existing Specification:**
Para: 1. Flexible Intubation Endoscope with **CMOS chip** on tip for digitally transferring the image to the screen. Intubation Endoscope to display Full Frame. The image can be displayed directly on a integrated TFT monitor.

Read as:
Para: 1. Flexible Intubation Endoscope with **CMOS/CCD chip** on tip for digitally transferring the image to the screen.

Intubation Endoscope to display Full Frame. The image can be displayed directly on a integrated TFT monitor.

2. Existing Specification:
Para: 2. It should have a process to process **CMOS video** on screen and also to send signal to endoscope to illuminate internal LED light for producing light to display surgical area.

Read as:
Para: 2. It should have a process to process **CMOS/CCD** video on screen and also to send signal to endoscope to illuminate internal LED light for producing light to display surgical area.

3. Existing Specification:
Para: 8. TUBE HOLDER should be a part of standard accessory

Read as:
Deleted

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

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