Date: - 07th August, 2018

Corrigendum
For
Tender for
Full High Definition Camera for ICG Fluorescence Guided Imaging by Near Infra-Red (NIR) Light for the Department of General Surgery

NIT Issue Date	**:**	**06th June, 2018**
NIT No.	**:**	**Admn/Tender/54/2018-AIIMS.JDH**
Pre-Bid Meeting	**:**	**15th June, 2018 at 03:45 PM**
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Extended Last Date of Submission	**:**	**23rd August, 2018 at 03:00 PM**
Bid opening	**:**	**24th August, 2018 at 03:15 P.M**

The following revised and additional specification will be added:-

1. **Page No. 11, Point No. 01 (Three Chip FULL High definition Camera System), sub point no. 4 :**
   For
   USB Port for Capturing FULL HD Videos/ HD Stills in External USB drive and direct interface of USB Printer to facilitate direct printouts.
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2. **Page No. 11, Point No. 01 (Three Chip FULL High definition Camera System), sub point no. 9:**
   For
   Easily Upgradable to flexible Video Scopes.
   Read
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   For

Video output	2 Nos. X DVI-D output, 1 x 3G-SDI output, camera input for communication, 2 or more USB connection

   Read

Video output	One or more X DVI-D Output, 1*3G-SDI Output, Camera input for communication, 2 more USB connection.

3. **Page No. 12, Point No. 03 (Xenon Light Source with ICG HD fluorescence mode), sub point no. 1:**
   For
   - Lamp type:- Xenon 15V, 300 Watt

   Read
   - Lamp type:- Xenon/LED 15V, 300 Watt

4. **Page No. 12, Point No. 03 (Xenon Light Source with ICG HD fluorescence mode), sub point no. 2:**
   For
   - Color Temperatures 6000K

   Read
   - Color Temperature

5. **Page No. 12, Point No. 03 (Xenon Light Source with ICG HD fluorescence mode), sub point no. 4:**
   For
   Light Intensity Adjustment: - Continuously adjustable, either via a membrane keyboard.
   Read
   Light Intensity Adjustment: - Continuously adjustable.

6. **Page No. 12, Point No. 04 (Fiber optic cable - 4 Nos), sub point no. 3:**
   For
   Should be supplied with Diameter 4.8mm, Length 250 cm.
   Read
   Should be supplied with Diameter 4.25mm to 4.8 mm, Length 250 cm.

7. **Page No. 12, Point No. 05 (Rigid Telescope 0 Degree & 30 degree), sub point no. 1:**
   For
   Straight forward telescope 0 degree, enlarged view, 10mm, length 31cm, autoclavable, compatible with ICG Fluorescence guided imaging by Near Infra Red (NIR) light and white light, fiber optic light transmission incorporated.
   Read
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8. **Page No. 12, Point No. 05 (Rigid Telescope 0 Degree & 30 degree), Addition of a point:**
   Straight forward telescope 30 degree, enlarged view, 5mm, length 31cm, autoclavable, compatible with ICG Fluorescence guided imaging by Near Infra Red (NIR) light and white light, fiber optic light transmission incorporated.

9. **Page No. 12, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 6:**
   For
   Storage on internal memory (2 TB, FIFO), USB storage media via 2.0 and 3.0, optical media (DVD writer, Blu-ray reader), network drive, FTP or via DICOM.
   Read
   Storage on internal memory 1 TB or more.

10. **Page No. 12, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 7:**
    For
    Automatic storage in the background to reduce the time between the interventions. Easy management and overview of open/automatic save processes.
    Read
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11. **Page No. 12, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 9:**
    For
    Intra- and postoperative printing via optional printer (local or network).
    Read
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12. **Page No. 12, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 10:**
    For
    • Various adaptable templates for printing to choose from.
    Read
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13. **Page No. 12, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 11:**
    For
    Integrated surgical checklist following the WHO standard or customizable. Basic functions for the editing of still images and videos.
    Read
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14. **Page No. 13, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 13:**
    For
    Integrated file-viewer for still images, videos and checklists from diverse data sources.
    Read
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15. **Page No. 13, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 14:**
    For
    Integrated security software as a protection against malware, independent from security patches of the operating system and it is only possible to run certified software.
    Read
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16. **Page No. 13, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 15:**
    For
    Structured and clear user guidance, optimized for touch screen control.
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17. **Page No. 13, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 16:**
    For
    • Scalable range of functions.
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18. **Page No. 13, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 17:**
    For
    • Low noise generation and fast system start due to SSD-technology.

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19. **Page No. 13, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 18:**
For
Should have seamless USB silicone keyboard with touch pad to enter details
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20. **Page No. 13, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 19:**
For
controllable via 12"" inbuilt touch screen.
Read
controllable via 7-12"" inbuilt touch screen.

21. **Page No. 13, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 23:**
For
CPU: Intel® Core™ i7-2600 @ 3.4GHz.
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22. **Page No. 13, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 26:**
For
- Connectors: 3 x 1 GB Ethernet (RJ 45), 6x USB 2.0, 2x USB 3.0.

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23. **Page No. 13, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 33:**
For
Preinstalled printer: SONY UP-DR80MD
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24. **Page No. 13, Point No. 06 (Image/Video Recording And Data Archiving System), sub point no. 34:**
For
The DICOM 3 interface shall be installed to the system in order to allow the surgeon to view all the DICOM 3 images stored in the PACS system on a digital light box within the operating rooms. Furthermore, all intra operative images recorded can be sent via the DICOM 3 interface to the PACS system for further processing.
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25. **Page No. 13-14, Point No. 07 (Signal management/routing system):**
For
A compact solution enables the easy and efficient distribution and individual routing of several high-resolution video signals, even without an integrated OR. The HD Video Router shall be a Medical-Grade video routing system that accepts up to 4 DVI-D (2D & 3D signals) inputs and 4 DVI-D (2D & 3D signals) outputs. This shall be utilized to connect various imaging devices such as the Endoscopic Camera, Surgical Camera, Room Camera,

Surgical Displays, etc... Routing the desired input to the desired output shall be possible via 4 membrane buttons on front panel, In addition, this system shall be able to also operate as a distributor in that any of the selected inputs is simultaneously broadcasted over the 4 outputs at the push of a button. System should have following features,
Two operating modes – switcher or router.
- Convenient use via four membrane keys. LEDs on the front panel display the operating mode in use
- Easy switching or routing of DVI-D sources in the OR or during live transmission. The simultaneous connection of a documentation system enables the recording of up to four sources
- Convenient distribution of DVI-D sources in the OR to various monitors or Documentation systems
Management system can be controlled via a front-button operation, it should have,
- Video inputs: 4 x DVI-D
- Video outputs: 4 x DVI-D
- Operation: 4 membrane keys with LED display
- Max. video resolution: 1920 × 1080p; 50/60 Hz
- External dimensions (w × h × d): 305 × 83.7 × 249 mm
- Weight: 2.2 kg
- Power supply: 100-240 VAC; 50/60 Hz
- Protection class: IP 20 (DIN 60529)

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26. Page No. 14, Point No. 08 (Video Trolley):

For

Equipment Cart, rides on 4 antistatic dual wheels equipped with locking brakes, central beam with integrated electrical sub distributors with 6 sockets, grounding plugs, modular in nature (should be able to add shelves and components later if required)
Should have central monitor holder to mount monitor with height adjustable, swiveling and tilting, swivel range approx. 360°, loading capacity max. 18 kg, with monitor mount VESA 75/100
Cart should have following dimensions in mm (w x h x d):
Equipment cart: 830 x 1474 x 730,
Caster diameter should be 125 mm
Cart should be competible to accomodate followings when required,
- Isolation transformer
- Counter balance plate
- CO2 cylinder holder
- Monitor holding arms (lateral)

Product Certification : European CE certified and To provided from Same manufacturer.

Read

Suitable Medical Grade video trolley to be supplied for mounting equipment's having minimumthree self in addition to with one drawer, with antistatic wheel casters, front lockable, high grade of electrical insulation and earth protection. 5 Ampere socket, 10 Nos, inbuilt with trolley to connect all electronic devices. Co2 bottle stand should be integrated with trolley. Potential equalization connection to be provided at least 8 points. Potential equalization connection to be provided at least 8 points. Preferably from OEM.

27. Page No. 14, Point No. 09 (Extracorporeal Visualization system compatible with above mentioned camera system for ICG Fluorescence guided imaging by Near Infra-Red (NIR) light):

For

Telescope for Open Surgery Under magnification with holding arm:
- Great depth of field

- Large working distance
- Compact Design
- Ideal system for teaching and training
- Straight forward telescope 0 degree, working distance 25-77cm, 10mm length 11cm, integrated illuminator with fiber optic light transmission incorporated.
- Telescope should be compatible with ICG Fluorescence guided imaging by Near Infra-Red (NIR) light.
- Good mechanism for holding telescope in the shape of Mechanical holding arm which can be fitted easily with OT/demonstration table.
- Holding System Should Be autoclavable and provided from The Same Manufacturer.

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28. **Page No. 14, Point No. 10 (Electronic CO2 Insufflator with Gas heating & highest degree of patient safety):**

For

It should have following features:

 Gas flow: Should must give flow of gas up to 50.0 l/min.
 Pressure: pre-selectable between 0-30 mmHg (4000Pa).
 High flow mode adjustable between (0 to 50 l/min.)
 Sensitive mode pressure 15 mmHg & flow 15 l/min for sensitive application
 Electronic control and colour touch screen.
 Following data are displayed on touch screen: - Insufflation mode.
- Pre cutoff Set value „"pressure"" (0-30 mmHg max).
- Actual patient pressure.
- Pre cutoff Set value „"gas flow"" (0-50 l/min max).
- Actual gas flow.
- Gas consumption (0-999 l).
- Status of gas heating.
- Status on CO2 Cylinder pressure.
- Input CO2 gas supply selection central supply 4.5Kg & direct connection to CO2 Cylinder to 80 bar.
- Unit should display both setting of actual and pre-set value of flow and pressure.
- Should be supplied with silicon tubing set-10 Nos.
- Should be supplied with gas evacuation system.
- Optical and acoustic alarm signals in the event of patient overpressure.
- Hateable insufflation tube for heating the CO2 gas up to patient body temperature.
- ON/OFF gas insufflations from Camera control interface.

Applicable for use in Laparoscopy, in Thoracoscopy, in Proctology (for Transanal Endoscopic Operations) and for endoscopy of the upper and lower gastrointestinal tract, as well as in Cardiac Surgery (open or endoscopically assisted cardiac surgery to assure an optimal air extrusion and minimizing risk of air microemboli and for decreasing rate of contamination and minimizing risk of postoperative wound infection – for minimally invasive cardiac surgery, e. g. mitral valve surgery) and in Vascular Surgery (endoscopic vessel harvesting).

 Universal Power supply: 100-240 VAC, 50/60 Hz.
 Certified to: IEC 60601-1, CE label acc. to MDD, medical product Class IIb.
 Type of protection against electrical shocks: Protection Class 1.
 Degree of protection against electric shocks: Applied part type CF.
 International protection code: IP21.
 US FDA & European CE certified.

Read

Flow rate 35-45 Litre/mints

1. High flow with LCD display
2. Microprocessor controlled & Software driven for ungradeability

3. Soft approach pressure control for safe recovery of abdominal pressure
4. Should have Neonatal mode & visual and audible alarms with min 0.1 L flow rate
5. Internal leakage detection capability
6. Integrated Gas heating
7. Having internal venting system for safety
8. Should have video on screen display
9. Unit should include heated tubing, hose & yoke
   Should be able to select either central supply (4.5 Kg/cm2) input pressure from Central supply as well as direct connection to high pressure CO2 cylinder and should indicate the right inlet pressure of CO2 gas supply of front panel of Machine.
10. Should be USFDA or European CE approved

29. Page No. 15, Point No. 11 (Suitable UPS system: Recommendation is 2.0 KVA on line UPS.):

For

Can be from India from reputed manufacturer. The Individual components (Light source, camera system, telescopes and fiber optic cable) should must aligned to ICG HD system ALL THE EQUIPMENTS AND INTRUMENTS SHOULD BE FROM SAME MANUFACTURER and US FDA & European Certified wherever listed.

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