

**Amendment No. 2**

**Date: 06-02-2015**

**Sub: Amendment to Tender Enquiry Document.**

**Ref: NIT No. HLL/PCD/GNCTD/26/GTBH/14-15 dated 23-12-2014 read with its amendment No.1 dated 23-01-2015.**

The following changes have been incorporated in the referred NIT.

**Section – VII  
Technical Specification**

**Item No.01 - 1000 mA Dual Detector Digital Radiography system :-**

**Existing Specification :**

**Para:** The X-ray Generator and the x ray tube should be manufactured by the quoted bidder themselves, if not, the X-Ray generator, X-ray tube and detector must all be individually FDA certified

**Read as :**

**Para :** The X-ray Generator and the X Ray tube should be manufactured by the quoted bidder themselves, “**if not, the quoted model should be USFDA approved**”.

**Existing Specification :**

**Para 2.D:** Tube loading should be at least 30 KW for small and atleast 80 KW for large focus

**Read as:**

**Para 2.D:** Tube loading should be at least 30 KW for small and **atleast 70 KW for large focus.**

**Existing Specification :**

**Para 2. M:** Horizontal and vertical tube rotation should be +/- 180 Degree.

**Read as:**

**Para 2. M:** Horizontal tube rotation should be +/- **125 Deg** and vertical tube rotation should be +/-**160 Deg.**

**Existing Specification:**

**Para 5.E :** The pixel size 150 microns or less

**Read as:**

**Para 5.E:** The pixel size **200** microns or less.

**Existing Specification :**

**Para 4. B:** Should be possible to tilt the vertical detector system (-15 Deg to + 90 Deg) and should travel from 1 to 6 ½ above floor level

**Read as:**

**Para 4. B:** Should be possible to tilt the vertical detector system (-15 Deg to + 90 Deg) and should travel from **30 to 180 cm above floor level.**

**Existing Specification :**

**Para 5 Detector System: Sub Point (A):** Detector material should be made of amorphous silicon with CSi Scintillator/ Gadox scintillator

**Read as :**

**Para 5 Detector System: Sub Point (A):** Detector material should be made of amorphous silicon with CSi Scintillator.

**Existing Specification :**

**Para 7. J:** System should have facility of Auto image stitching/ image pasting for complete spinal column, extra long leg (sample film to be enclosed)

**Read as:**

**Para 7. J:** System should have facility of Auto image stitching/ image pasting **on both table and wall stand** for complete spinal column, extra-long leg **on console/ image acquisition system itself** (sample film to be enclosed).

**Existing Specification:**

**Para 10. A:** A free comprehensive software upgrade compatible with the existing platform) guarantee for 10years after installation.

**Read as:**

**Para 10. A:** A free comprehensive software **update** compatible with the existing platform) guarantee for 10years after installation.

**Existing Specification :**

**Manadory Requirements Point no. 1:** The equipment should be of international standards having recent and valid international certifications for quality of product ""for example ISO/FDA/European CE"". AREB type approval must, NOC not acceptable "

**Read as:**

**Manadory Requirements Point no. 1:** The equipment should be **European CE and USFDA approved , AREB type approval must, NOC not acceptable "**.

**Added under Para 12:** Installation and Turnkey

**Vendor to inspect the site & prepare layout in consultation with HOD.**

**Added under Para 14:** "Air conditioning and electrical work"

**For ranking purpose a minimum 24 Tr shall be considered for combined deployment in three rooms. The temperature has to be maintained at 20 degree Celsius in each of the three rooms for entire duration of warranty and CMC, additional capacity if required shall be installed by the vendor at his own cost.**

**Item No.02 - High End 4-D Colour Doppler System:-**

**Existing Specification:**

**Para:** Turnkey

**Read as:**

**The entire turnkey clause is deleted.**

**Existing Specification:**

**Para:** The System should have a high dynamic range, 180 dB or more.

**Read as:**

**Para:** The System should have a high dynamic range, **200 dB or more.**

**Existing Specification :**

**Para:** Integrated real time 3D imaging facility with 30 vps.

**Read as:**

**Para:** Integrated real time 3D imaging facility **with 25 vps.**

**Existing Specification :**

**Para:** 4D probe 2-8 MHz for OBs./Gynae (+/- 1MHz)

**Read as:**

**Para:** **4D Convex probe 2-7 MHz** for OBs./Gynae (+/- 1MHz).

**Existing Specification:**

**Para:** Small footprint pediatric probe 3-9MHz (+/- 1MHz)

**Read as:**

**Para:** Small footprint pediatric probe **5 - 9MHz** (+/- 1MHz).

**Existing Specification:**

**Para:** **Broadband linear hockey stick probe 5-18MHz.** (+/- 1MHz).

**Read as:**

**Para:** **Broadband linear hockey stick probe 7-15MHz.** (+/- 1MHz).

**Added para:**

**Shear wave elastography to be offered on Convex Probe & Strain based on linear and transvaginal probe.**

**Addition to accessories: - (Rates to be offered separately for each item)**

- i. Latest Intel based PCs with latest Window & M.S Office. (Model to be approved by HOD) – two in number.**
- ii. Monochrome laser printer (600X600 DPI). (Model to be approved by HOD).**
- iii. Flatbed scanner with capability to scan up to A3 paper & scanning resolution of 1200 X 1200 DPI. (Model to be approved by HOD).**

- iv. **Suitable UPS for 30 minutes back-up for the PC and peripherals-two in number.**
- v. **Supply of Printer Cartridge for 5 years to be delivered quarterly every year (consumption of 1 cartridge/month).**

**Item No.03 - 3.0 Tesla MRI Scanner**

**Existing Specification:**

**Para 4. A:** A fully digital RF system capable of transmitting power of at least 25 KW or more (Single/ dual) with a combination of RF power amplifiers. System should be capable of Multi Transmit for better B1 homogeneity. Specify transmitter frequency range (10-86 MHz).

**Read as:**

**Para 4. A:** A fully digital RF system capable of transmitting power of at least 25 KW or more (**DUAL RF Amplifier**) with a combination of RF power amplifiers. System should be capable of Multi Transmit for better B1 homogeneity. Specify transmitter frequency range (10-86 MHz). **It should have softwares like 3D PACE/3D Promo/PMC as standard. Software like ZOOMIT/FOCUS or equivalent should be quoted as standard. If this is a work in progress the same should be quoted as a product. If not all vendors should quote the price separately and the same will not be considered for price comparison.**

**Existing Specification :**

**Para 4 D:** The operation frequency should cover 23na, 13C and 31P nucleus (for multinuclear spectroscopy 21Na, 13C& 31P).

**Read as:**

**Para4D: Optional:** The operation frequency should cover 23na , 13C and 31P nucleus (for multinuclear spectroscopy 21Na, 13C& 31P). **(Price to be quoted separately).**

**Existing Specification:**

**Para 8 G:** Separate suitable Coil for Peripheral Angiography application of at least 32 Channel.

**Read as:**

**Para 8 G:** Coil for Peripheral Angiography application of **32 Channels or more; with coverage of 80cm or more.**

**Existing Specification:**

**Para 8.J:** Dedicated Knee Coils at least 12 Channels or more transmit and receive coils.

**Read as:**

**Para 8.J:** Dedicated Knee Coils **at least 8 Channels or more** transmit and receive coils

**Existing Specification:**

**Para 8.M:** Eye -Ear/TMJ Circular coil

**Read as:**

**Para 8.M:** Eye -Ear/TMJ coil

**Existing Specification:**

**Para 8.S:** Minimum of 16 coils including the integrated body coil to be quoted.

**Read as:**

**Para 8.S:** Minimum of 16 coils including the integrated body coil to be quoted. **”The supplier should quote coils or their combinations exclusively for each application. The number of coil should be thus mentioned as independent and not be having overlapping application”**

**Existing Specification :**

**Para C. (Page 65) Special Application Package.**

**Para a):** Neuro Applications-1- (i) to (vi)

**Read as:**

**Para C. (Page 65) Special Application Package.**

**Para a):** Neuro Applications-1- (i) to (vi) - **optional, price to be quoted separately. (Spectroscopy to be offered as standard).**

**Existing Specification:**

**Para Neuro Applications -5:** Prospective Motion Correction enabled software preferred.

**Read as:**

**Deleted.**

**Existing Specification :**

**Para 18. D:** If a particular coil is not working for more than 3 days and due to which patient work suffers, the firm will be asked to pay penalty of half a day beyond 3 days for each day that it is not working.

**Read as:**

**Deleted.**

**Existing Specification :**

**Para 18. Warranty.D:** Software upgrades (where hardware upgrades are not required) likewise pulse sequence, new application package etc. should be provided within one month after release worldwide (any country, viz, North America /Europe/ Germany etc).

**Read as:**

**Para 18. Warranty.D:** Software **updates** (where hardware upgrades are not required) likewise pulse sequence, new application package etc. should be provided within one month after release worldwide (any country, viz, North America /Europe/ Germany etc).

**Added under Turnkey: Vendor to inspect the site and layout plan to be collected from the department (HOD) For ranking purpose a minimum 40 Tr (out of which 10 TR should be as backup). The temperature has to be maintained at 20 degree in the gantry room and 22 degree in rest of the complex for entire duration of warranty and CMC, additional capacity if required shall be installed by the vendor at his own cost.**

**Item No.04 - 128 Slice CT Scanner:-**

**Existing Specification:**

**Para 2:** Single Source dual energy capability.

**Read as:**

**Para 2:** Single Source dual energy capability (**Optional: Specify the softwares available and quote price separately for each**).

**Existing Specification:**

**Para 3.a: X-ray Tube A Tube Current:** minimum range 20-800 mA or more.

**Read as:**

**Para 3.a:** X-ray Tube A Tube Current: minimum range **20 - 600 mA**.

**Existing Specification:**

**Para 6.a:** Minimum slice thickness should be 0.6 mm or less.

**Read as:**

**Para 6.a:** Minimum slice **thickness should be 0.625mm** or less.

**Existing Specification:**

**Para 10:** Workstation: A multimodality client server architecture based solution with minimum concurrent 30000 slices rendering capacity (Intellispace Portal 6/ Dexux-AW server 2/ Syngo Via 30A etc), with 64GB RAM with storage of minimum 6TB having following client hardware specifications- Workstation.

**Read as:**

**Para 10 :** A multimodality client server architecture based solution with minimum concurrent 30000 slices rendering capacity (Intellispace Portal 6/ Dexux-AW server 2/ Syngo Via 30A etc), with 64GB RAM with storage of **minimum 2TB and Additional storage of 10 TB on the server** , having following client hardware specification- Workstation.

**Added Para under Turnkey:**

**Vendor to inspect the site and submit layout plan to HOD Radiology.**

**Added Para under Turnkey - Air Conditioning:**

**Vendor to inspect the site and layout plan to be collected from the department (HOD) For ranking purpose a minimum 20 Tr shall be considered. The temperature has to be maintained at 20 degree in the gantry room and 22 degree in rest of the complex for entire duration of warranty and CMC, additional capacity if required shall be installed by the vendor at his own cost.**

**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 tenders.**