

## **Amendment No. 10**

**Date: 21.03.2015**

**Sub: Amendment to Tender Enquiry to the technical specification.**

**Ref: NIT No.: HLL/PCD/GNCTD/27/GBPH/14-15 dated 30.12.2014 read with its amendment no. 1, 2, 3, 5, 6, 7, 8 & 9 dated 28.01.2015, 29.01.2015, 29.01.2015, 18.02.2015, 18.02.2015, 27.02.2015, 07.03.2015 & 13.03.15 respectively.**

The following amendment in the technical specification is issued to the referred NIT for Tender ID: 2014\_HFWD\_74190\_8 only.

### **Section – VII Technical Specification**

#### **Item no. 8**

#### **3.0 Tesla MRI Scanner**

**Existing: Para 4.A** A fully digital RF system capable of transmitting power of at least 25 kW or more with *f* combination of RF power amplifiers. System should be capable of multi transmit with multi amplifier driving/ true shape 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**) with combination of RF power amplifier. System should be capable of multi transmit with multi amplifier driving/ true shape for better B1 homogeneity. Specify transmitter frequency range (10-86 MHz), **it should have latest or equivalent software as standard.**

**Existing: Para 8.P :** The system should continuously monitor the RF coils used during scanning to detect failure modes. RF coils should not require either set up time or coil tuning; Multi coil connection for up to 2 or more coils simultaneous scanning without patient repositioning i.e. like 4GTIM/GEM/ FLEXS stream coil combination should be quoted as standard

**Read as : Para 8.P :**The system should continuously monitor the RF coils used during scanning to detect failure modes. RF coils should not require either set up time or coil tuning; Multi coil connection for up to 2 or more coils simultaneous scanning without patient repositioning i.e. like **TIM4G/GEM/ dSTRE AM** stream coil combination should be quoted as standard

**Existing : Para C.2:** Arterial Spin Labelling.

**Read as:** Para C.2: Arterial spin labelling- **3D/2D**

**Existing : Para C.5:** Multi Direction DTI with minimum of 32 directions (Complete package including DTI quantification and tractography software). Prospective motion correction enabled software preferred. Spinal tractography should also be possible.

**Read as :Para C.5:** Multi Direction DTI with minimum of 32 directions (Complete package including DTI quantification and tractography software). **Prospective motion correction enabled software should be part of standard equipment.** Spinal tractography should also be possible.

**Existing :Para b. Cardiac application- 2:** Coronary artery techniques, real time interactive imaging, 2D/3D fast field echo/balanced/steady state techniques and evaluation package on workstation/clients

**Read as: Para 2. (b. 2:** Coronary artery techniques, real time interactive imaging, 2D/3D fast field echo/balanced/steady state techniques and evaluation package on workstation.

**Existing: Para d) Hepatobiliary and abdominal system 3-** : Please quote software cost for liver iron quantification separately as as optional item

**Read as: Para d) Hepatobiliary and abdominal system .3 : liver iron quantification software should be as standard**

**Existing : Para : Para 10.A. i:** Basic post processing software including MIP, MPR, surface reconstruction and volume rendering technique, image fusion, 3D evaluation 2 clients concurrently.

**Read as :Para : Para 10.A. i:** Basic and **advance post processing** software including MIP, MPR, surface reconstruction and volume rendering technique, image fusion, 3D evaluation in **all three clients concurrently.**

**Existing Para: Point no. 16 Warranty and CMC ,iv :**

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: Para M. Guarantee i). 3 :** 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/ germanyetc)

**Read as : Para M. Guarantee i). 3 :** 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/ germanyetc)

**Para Under General Technical Specification Point no. 11 :** An undertaking to be submitted by the supplier that the equip will be inspected within 24 hours and repaired at the earliest. The uptime should be 90%. The downtime will be and if exceeded 10% the warranty will be extended according for the excess period.

Request you to remove as this point is contradicting the point no. ii under Warranty and CMC.

**Read as : DELETED**

**Para Under General Technical Specification Point no. 15:**

Requirement of power supply.etc from the hospital to be informed immediately after receiving the.approved tender, and turnkey project to be completed before delivery of the machine.

**Read as: DG of 250 KVA capacities to be provided.**

**Existing: Para no. L: Post Guarantee Annual comprehensive maintenance contract (CMC) point iii :**The insurance should be done by the bidder to cover the losses, if any due to force major conditions.

**Read as: DELETED**

**Para under Point no. L Post Guarantee Annual comprehensive maintenance contract ICMC) point i.:**

The post -warranty ( after 5 years )CMC should be comprehensive and should include helium and cold head (repair and /or replacement ) + labour + spares for the complete system which includes all the accessories supplied such as UPS ,Generator ,AC etc with 24 hrs manpower for operations (including

all consumables like batteries for UPS ,**diesel for generator** ,etc)and maintenance for another 5 years. The vendor should provide the cost of manpower separately .the CMC should be quoted in Indian rupees. The price of post warranty 5 years shall be taken for price comparison.

**Read as: Para Under Point no. L Post Guarantee Annual comprehensive maintenance contract ICMC) point i. :**

The post -warranty (after 5 years) CMC should be comprehensive and should include helium and cold head (repair and /or replacement) + labour + spares for the complete system which includes all the accessories supplied such as UPS, Generator, AC etc with 24 hrs manpower for operations (including all consumables like batteries for UPS, etc) and maintenance for another 5 years .the vendor should provide the cost of manpower separately .the CMC should be quoted in Indian rupees. The price of post warranty 5 years shall be taken for price comparison.

**Existing :Para Under Technical Specification Training Clause :**

On -Site Training of all faculty members & radiographers and other staff by an application expert for at least 3 months

**Read as: On-site training for six month as and when required with mutual agreement.**

**Existing: Point 8 Coil System: (B):** Multi Channel Head Coil with at least 16 Channels for routine brain imaging.

**Read as : DELETED**

**Point 9 Application Sequence Sub point 24:** DTI with MDDW or equivalent with a minimum of 12 and selectable upto 64/256 direction encoding.

**Read as: DTI with MDDW or equivalent with a minimum of 12 and selectable upto 32 directions encoding.**

**Existing: Point no 10 workstation:** Multimodality Client server Architecture-server with three concurrent clients capable of rendering 30000images at peak performance. Workstation hardware should be industry standards and should be the latest with the vendors, as per their globally launched product catalogue. Please quote separate licenses concurrently available for all 2 clients for all the application quoted.

**Read as: Point no 10 workstation:** Multimodality Client server Architecture-server with three concurrent clients capable of rendering **20000** images at peak performance. Workstation hardware should be industry standards and should be the latest with the vendors, as per their globally launched product catalogue. Please quote separate licenses concurrently available for all **3 clients** for all the application quoted.

**Existing: Point 16 Warranty and CMC (page no 77):** The equipment should have 60 months warranty from the date of handing over the fully functional unit of all coils and the accessories supplied (such as UPS, AC, Generator, etc) to the hospital against manufacturing defects of material and workmanship. The Helium Supply and cold head repairs (including replacement. If needed) should be included in the warranty period. The vendor should take care of the day to day running of the UPS, AC generator, etc on 24 HR basis.

**Read as: DELETED**

**Existing: Point L iii) page no 77:** The insurance should be done by the bidder to cover the losses, if any, due to force major conditions. The rate of post-warranty comprehensive CME should be offered for at least five years by bidder and offered in Indian Rupees only.

**Read as : The insurance will be provided by the vendor till installation.**

**Existing: Point O Miscellaneous:** Sub point Training: One Onsite engineer to be available for a period of six months

**Read as:** Onsite training for six month as and when required with mutual agreement

**Existing: Para 8 (G) :**Suitable surface Coil for Peripheral Angiography application of at least 32 Channel

**Read as: Para 8 (G) :**Suitable surface Coil for Peripheral Angiography application of at least 32 Channel with coverage of 80 cm or more

**Existing :Para 8 (H) :** Suitable Knee Coils at least 12 Channels or more transmit and receive coils.

**Read as: Para 8 (H) :**Suitable Knee Coils **at least 8** Channels or more transmit and receive coils.

**Existing: Para 8 (Q) :** Please specify the number of coils quoted.

**Read as: Para 8 (Q) :** **The supplier should quote Coils or their combinations exclusively for 10 applications, the number of coils should be thus mentioned as independent and not be having overlapping applications.**

**Existing: Para 15 a vii, page 68 :** Provision of serial ports and **DB 15 Ports** in the penetration panel for routing SVGA/EEG connections(one each for customer use) fMRI console should have all relevant functions to develop and integrate the paradigm to deliver the paradigm and also to monitor the task being presented. The volume control option should also be available with the operator (at a convenient place at the console).

**Read as: Para 15 a vii, page 68 :** Provision of serial ports and in the penetration panel for routing SVGA/EEG connections(one each for customer use) fMRI console should have all relevant functions to develop and integrate the paradigm to deliver the paradigm and also to monitor the task being presented. The volume control option should also be available with the operator (at a convenient place at the console).

**Existing: Para 16. iv :**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: Para Training:** One on site engineer to be available for a period of six months.

**Read as: Onsite training for six month as and when required with mutual agreement.**

**Added Para (Under Air Conditioning):- 25 Ton AC as standard and 10 ton back up for remaining purpose.**

**Added Para: 1. Silent scanning techniques quoted as an option**

**2. The 3T MR should be installed in the present MR Location at Master Amir Chand Block and not in the EDP Block.**

**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.**