Amendment No. 1

07.06.2018

Sub: Amendment to the Bidding Document

Ref.: Notice Inviting Bid ref. HITES/PCD/NCI-AIIMS/17/18-19 dated 16.05.2018

The following changes have been authorised and are being incorporated in the above referred Bidding Document.

SECTION – I

NOTICE INVITING BIDS (NIB)

Description	Existing	Amended as
Last date and time of online submission of tender	20.06.2018 at 12:00 noon	**03.07.2018** at 12:00 noon
Last date and time of physical submission of EMD, Tender processing Fee, any other document specified in the Bidding Document	20.06.2018 at 2:00 pm	**03.07.2018** at 2:00 pm
Date of tender Opening	20.06.2018 at 2:30 pm	**03.07.2018** at 2:30 pm

SECTION – III

SPECIAL INSTRUCTIONS TO BIDDERS (SIB)

Sl. No.	GIB Clause No.	Topic	SIB Provision	Ref. Page No.
C	11.1	(B) Price Tender	Additional Note 'd' as under	
	19	Bid Security (BS)	Additional para 19.9 as under	

11.1 (B) Price Tender:

Note:

d) The Price is to be quoted for all the line items strictly as per the given price-bid format on the e-tender portal, failing which the bid shall be straight away rejected.

19. Bid Security (BS)

19.9 HITES Bank details for necessary issuance of 'Structured Financial Messaging System (SFMS)' in case the Bid Security (i.e. EMD) is submitted in the form of Bank Guarantee:

Name of the Beneficiary	Bank Details	IFSC Code
HLL INFRA TECH SERVICES LTD.	HDFC BANK LTD, NOIDA, UTTAR PRADESH	HDFC0000088

SECTION - VII

TECHNICAL SPECIFICATION AND GENERAL POINTS

A. TECHNICAL SPECIFICATION:

Item sl. no. 01

16-Slice SPECT / CT Scanner

Sl. No.	Ref. to the Bidding Document	Existing specification in the Bidding Document	Amended as
1	Page 47 Para: 8. ii	Minimum of 4 GB RAM , 2.8 GHz or more processor speed and minimum 600 GB SCSI hard drive logically divided in to 3-4 partitions	Minimum of 4 GB RAM , **2.5 GHz** or more processor speed and minimum 600 GB SCSI hard drive logically divided in to 3-4 partitions
2	Page 47 Para 8. Viii	One addition processing work station with all the standard and third party software should also be supplied and connected with the online server.	One additional processing work station to be supplied with all the standard and third party software and licenses as in the primary post processing workstation , and it should be connected with online server.
3	Page 48 Para 9 vi	Complete Renal processing software including Transplant Evaluation, Diuretic Renography, Package for GFR, ERPF, Renal Extraction Fraction, Deconvolution analysis.	Complete Renal processing software including Transplant Evaluation, Diuretic Renography, Package for GFR, ERPF, **Renal Extraction Fraction or Renal Processing protocol,** Deconvolution analysis.
4	Page 48 Para 9 x	Condensed dynamic image programme for esophageal transit studies **2nd gastric emptying software.**	Condensed dynamic image programme for **Gastric transit studies**

6	Page 48, Para 9 xxii	Any latest special software or hardware to enhance the SPECT images quality and to complete the study in minimum time should be offered as a standard features. Provide specific details on the offered package.	**Latest collimator-detector response – Resolution recovery algorithm software (EVOLUTION OR IQ SPECT with necessary hardware if required) that enables half dose and half acquisition time in SPECT including cardiac SPECT, BONE SPECT and planar images should be offered as a standard feature.**
8	Para 9	added para in Para 8: (under **Clinical Applications Software)**	xxiv: SPECT SUV must be offered as standard. Quantitative volumetric analysis for SUV calculation: Automated organ definition & segmentation on SPECT & CT combined images.
9	Page 50, Para 12. v	Fillable flood phantom for rectangular field of the size adequate for the gamma camera to be supplied.	**DELETED**
10	Page 50, Para 12. xi	One vital sign monitor (standard make).	One No. : vital sign **multiparameter patient vital signs monitor, 15 inch monitor (standard make) : 5 parameters - ECG, SP02, NIBP, Respiration, Temperature.** **with ECG/Resp: 5 Lead ECG Cable with clip- 2 sets.** **NIBP: Adult cuff & Paediatric cuff- 2 nos. each.** **Reusable SPO2: Adult SPO2 sensor with cable- two nos.** **Pediatric SPO2 sensors- two nos.** **skin temperature probe- one no.**
11	Page 50 Para 12. xii	One single syringe infusion pump (Schiller/ASCOR/AITECS)	One single syringe infusion pump (Schiller/ASCOR/AITECS/**B-Braun / Fresenius)**
12	Page 50 Para 12. xiv	One fume hood for installation in the hot lab with PVC ducting	**One Radiation Fume Hood for installation in the hot lab with laminar Flow Unit (vertical) and HEPA filter, 100% exhaust for Microbiological use.** **Should be sliding window type with built-in double wall socket 220 V, and water fitting with drainage basin.** **Size approx. 1200 mm (W) x**

			820 mm (D) x 2620 mm (H) **Materials: The fume hood should be constructed of stainless steel (Type 304). Inner chamber finished in chemical - resistant Epoxy paint and work surface covered with thick non glossy stainless steel sheet.** **Filter: Charcoal filters.** **PVC ducting.** **Exhaust to be laid to suitable height as per radiation safety standards laid by AERB, Mumbai.**
13	Page 50, Para 12. xv	One side by side refrigerator for storing radiopharmaceutical kits.	One side by side **domestic refrigerator of minimum 550 litre capacity** for storing radiopharmaceutical kits.
14	Page 50, Para 12. xxxviii	One laminar Flow Unit (vertical) with HEPA filter for Microbiological use.	**DELETED**

Note-1: The nomenclature '16-Slice SPECT/CT Scanner' wherever mentioned in the Bidding Document is to be read as '**16-Slice SPECT-CT Scanner**'.

Item sl. no. 02

128-SLICE PET - CT SCANNER

Sl. No.	Ref. to the Bidding Document	Existing specification in the Bidding Document	Amended to
1	Page 54 Para 1) a)	A latest technology whole body Positron Emission Tomography system with 128 slices acquisition per rotation, DICOM ready and isotropic volume generation/production spiral CT scanner designed for providing volume measurements of metabolic and physiological processes using positron emitters, as well as for producing accurate structural and anatomical fusion images and making attenuation maps for CT based attenuation correction.	A latest technology whole body Positron Emission Tomography system with **128 slices acquisition or generation per rotation,** DICOM ready and isotropic volume generation/ production spiral CT scanner designed for providing volume measurements of metabolic and physiological processes using positron emitters, as well as for producing accurate structural and anatomical fusion images and making attenuation maps for CT based attenuation correction.

2	Page 55 Para 2) k)	**Integrated CT simulation software for conformal radiotherapy planning** with laser system (one moving & 2 fixed lasers of green colour) to be provided. It is to be connected with main TPS in the radiotherapy department through Ethernet wiring. **A separate workstation is to be provided in TPS room**	**The system should have 4D PET-CT acquisition capability. Laser system (three lasers of green colour) to be provided. It should be connected with main TPS in the radiotherapy department through Ethernet wiring.**
3	Page 55 Para 3) a)	Multi detector CT having minimum 64 rows of detectors acquiring 128 slices per rotation.	**Multi - row detector CT capable of acquiring or generating 128 slices per rotation.**
5	Page 55 Para 3) e)	Detector coverage should be at least 38 mm or higher.	**DELETED**
	Page 57 Para 6)	**Workstation (Data Acquisition, Processing & Management).** a) One Acquisition station independent of main processing unit having HD, OSEM and Time-of-flight reconstruction and any other reconstruction algorithms asstandard features. The workstation should be of latest specifications at the time of shipment. b) It should have both, serial and USB ports. c) The processing workstation should be high performance CPU with multi-tasking operating system having minimum of 8 GB RAM, 2.5 GHz processor speed,	**Workstations or Server-Client nodes (Data Acquisition, Processing & Management). 5 Workstations or One no. Server-with- 5 Client nodes.** a) A Client Server Architecture based solution comprising of One no. Server with 5 no.s client nodes OR a workstation based solution comprising of 5 NO.S of independent post processing Workstation. It should be independent of main acquisition unit and should have HD, OSEM and Time-of-flight reconstruction and any other reconstruction algorithms as standard features. The Workstations or the Server and Client nodes should be of latest specifications at the time of shipment. b) Workstations or Server and Client nodes should have both, serial and USB ports. c) The Workstations or Server should be high performance CPU with multi-tasking operating system having minimum of 4 GB RAM, 2.5 GHz processor speed, minimum 1GB graphic card, 300

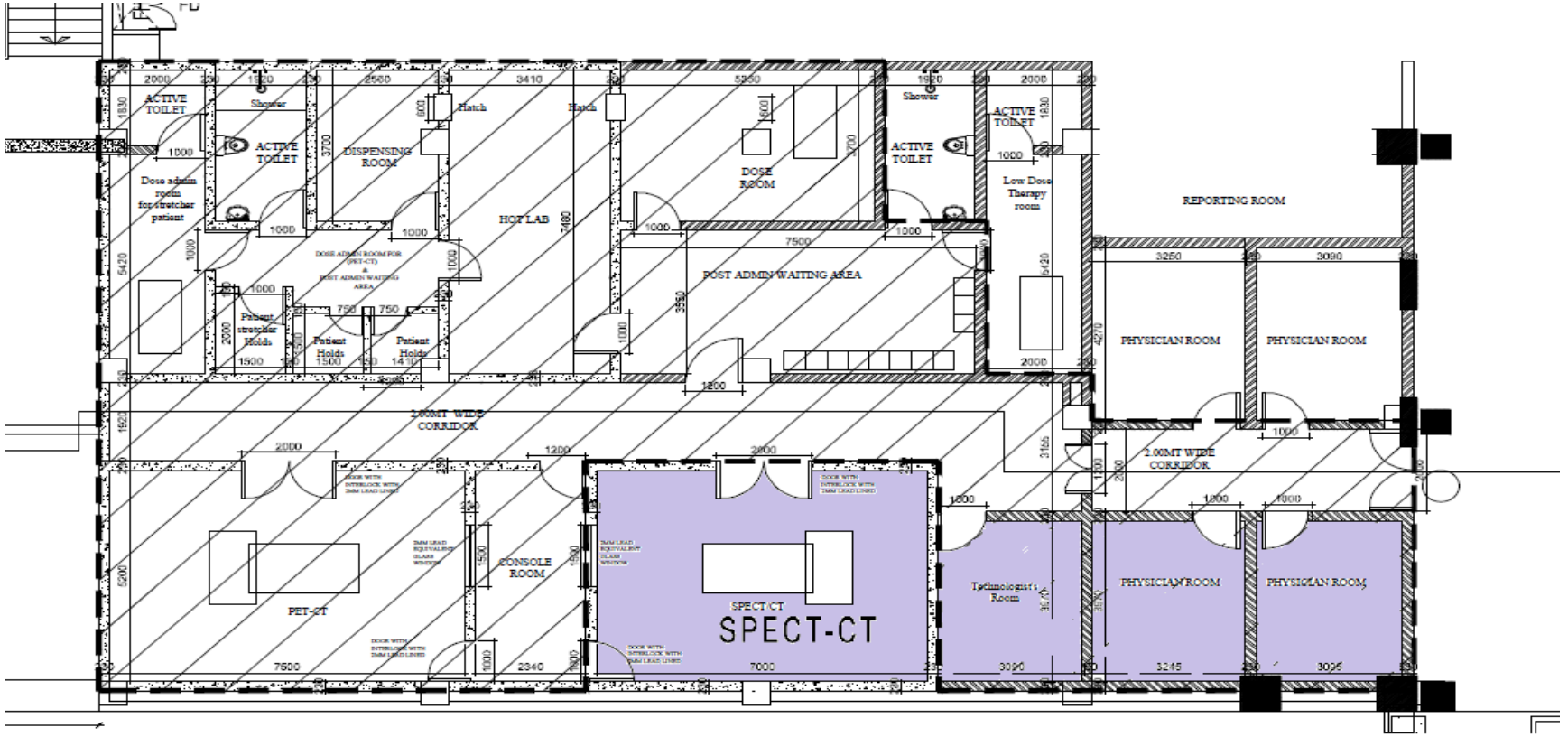
		minimum 1GB graphic card, 300 GB storage capacity or more, Optical Mouse, Key-board and high resolution flat panel dual view LCD monitor of minimum 19" size with minimum resolution of 1280 x 1024. It should also have CD and DVD combo drive preferably with writer facility. d) Intercom with user programmable patient · e) Reconstruction filters -latest available filters with the company for PET applications. f) Communications -Ethernet with TCP/IP protocols and DICOM and above i.e., latest networking of all possible equipment in the facility with their peripherals and PACS available in the department. PET CT must be connected to the PACS System aspart of this order. g) Each Processing workstation should have concurrent licences of image fusion, quantification facility and image comparison software for the baseline and follow-up studies. h) The workstation should be accessible remotely by at-least 5 concurrent workstations for PET and CT each. i) List mode PET data reconstruction should not take more than 90 sec/bed.	GB storage capacity or more, Optical Mouse, Key-board It should also have CD and DVD combo drive preferably with writer facility. d) Intercom with user programmable patient · e) Reconstruction filters -latest available filters with the company for PET-CT applications. f) Communications -Ethernet with TCP/IP protocols and DICOM and above i.e., latest networking of all possible equipment in the facility with their peripherals and PACS available in the department. PET-CT must be connected to the PACS System as part of this order. g) Each Processing workstation or each client node should have concurrent licences of image fusion, quantification facility and image comparison software for the baseline and follow-up studies. h) All 5 nos. client nodes or the 5 nos. workstations should be concurrently capable of all post processing functions of PET & CT images. They should be provided with keyboard, mouse and Medical grade flat panel monitor of minimum 19" size and minimum resolution of 2 Megapixel. i) List mode PET data reconstruction should not take more than 90 sec/bed.
11	Page 58 Para 7) 1. l)	Scatter Correction: correction must be provided based on scan of the actual patient whose scan is being corrected and processed automatically	Scatter Correction: **latest scatter correction protocol must be provided.**

12	Page 59 Para 7) 2. k)	All future software updates i**ncluding associated hardware** during warranty period and CMC shall be free of cost.	All future software updates during warranty period and CMC shall be free of cost.
13	Page 59 Para 8) r) 3.	The Tungsten **vial** shield should be manufactured using alloy with 95% purity Tungsten in order to ensure maximum radiation protection. A certificate from an NABL certified lab should be provided for the purity of Tungsten used to manufacture the **vial** shield Tungsten wall shielding should be 29.5 mm thick. The tungsten **vial** shield should comprise of two parts, the shield cap and the shield base. It should incorporate an easy lock and unlock mechanism with positive locking. It should be equipped with an O-ring seal for perfect tightness	The Tungsten **syringe shield** should be manufactured using alloy with 95% purity Tungsten in order to ensure maximum radiation protection. A certificate from an NABL certified lab should be provided for the purity of Tungsten used to manufacture the syringe shield Tungsten wall shielding should be 29.5 mm thick. The tungsten **syringe** shield should comprise of two parts, the shield cap and the shield base. It should incorporate an easy lock and unlock mechanism with positive locking. It should be equipped with an O-ring seal for perfect tightness.

Note-2: The nomenclature '128-Slice PET/CT Scanner' wherever mentioned in the Bidding Document is to be read as '**128-Slice PET-CT Scanner**'

Note-3: The Site Layout drawing for **'**16-Slice SPECT-CT Scanner' and '128-Slice PET-CT Scanner' is enclosed in the next page for reference.

All other contents of the Bidding Document including terms & conditions remain unaltered.



PET - CT site modification area is shown as

SPECT-CT site modification area is shown as

Site- Layout