

**Amendment No. 2**

**Sub: Amendment to the referred tender enquiry.**

**Ref.: HITES/PCD/AIIMS-IV/102/23-24, dated 21.10.2023.**

**TENDER ID 2023\_HITE\_176499**

The following changes are being incorporated in the above referred Tender Enquiry Document.

**Amendment to the Technical Specifications**

<b>Tender Page &amp; Para</b>	<b>TENDER SPECIFICATION</b>	<b>AMENDED AS</b>
<b>Page no 45, I(i)</b>	A latest technology Positron Emission Tomography system with integrated 128-slices spiral CT scanner, for commissioning by the vendor.	A latest technology <b>Digital</b> Positron Emission Tomography system with integrated 128-slices spiral CT scanner, for commissioning by the vendor.
<b>Page No 45, 2 (iii)</b>	The PET scanner should employ non-hygroscopic high light yield ( <b>80%</b> ) and low decay time <b>Lutetium based</b> crystals for detecting 511 KeV gamma photons in coincident	The PET scanner should employ non-hygroscopic high light yield and low decay time crystals for detecting 511 KeV gamma photons in coincidence”
<b>Page No 46, 5 (ii)</b>	TOF based reconstruction algorithms for better lesion detectability.	TOF based <b>or equivalent</b> reconstruction algorithms for better lesion detectability.

**Reply to the Technical Pre-bid Representation**

<b>Response To Pre-Bid Queries</b>			
<b>HITES/PCD/AIIMS-IV/102/23-24</b>			
<b>Item Name: PET CT</b>			
<b>Tender page &amp; para</b>	<b>Tender Specification</b>	<b>Representation received from the firms</b>	<b>Committee Recommendation</b>
<b>Page no45, I(i)</b>	A latest technology Positron Emission Tomography system with integrated 128-slices spiral CT scanner, for commissioning by the vendor.	A latest technology <b>Digital SiPM</b> based Positron Emission Tomography system with integrated 128-slices spiral CT scanner, for commissioning by the vendor	A latest technology <b>Digital</b> Positron Emission Tomography system with integrated 128-slices spiral CT scanner, for commissioning by the vendor.
<b>Page No45, 2 (iii)</b>	The PET scanner should employ non-hygroscopic high light yield(80%) and low decay time Lutetium based crystals for detecting 511 KeV gammaphotons in coinciden	The PET scanner should employ <b>Digital SiPM based</b> PET crystals for detecting 511 KeV gamma photons in coincidence	No change
<b>Page No46, 3 (i)</b>	Multi detector CT having capability of <b>generating</b> 128transverse cross-sectional slices simultaneously in one rotation.	Multi detector <b>minimum 64 row</b> CT having capability of generating 128transverse cross-sectional slices simultaneously in one rotation	No change
<b>Page No46, 3 (iii)</b>	Rotation time should be $\leq 0.5$ sec for 360 degree.	Rotation time should be $\leq 0.35$ secfor 360 degree.	No change
<b>Page No46, 5 (ii)</b>	TOF based reconstructionalgorithms for better lesiondetectability.	TOF / ( <b>Deep Learning</b> ) <b>DL-TOF based</b> reconstruction algorithms for better lesion detectability.	No change
<b>Page No46, 5 (iii)</b>	Axial & Transverse spatial resolution at 1 cm & 10 cm from the central axis of the gantry should be $\leq 6.3$ mm FWHM	Axial & Transverse spatial resolutionat 1 cm & 10 cm from the central axisof the gantry should be $\leq 4$ mmFWHM	No change
<b>Page No47, 5 (iii)</b>	<b>Timing Resolution should be <math>\leq 600</math> psec.</b>	< Delete> - Please remove.	No change
<b>Page No47, 5 (iv)</b>	Timing Resolution should be $\leq 600$ psec.	System sensitivity must be $\geq 8.5$ cps/KBq at center	No change
<b>Page No47, 6 (ii)</b>	Acquisition Modes: Acquisition in full 3-D mode must include Static, Whole Body, Dynamic and cardiac Gated acquisition.4D Respiratory Gating with hardware & software should also be provided.	Please clarify the Linear Acceleratorwhere this 4d Respiratory gating hardware will be used . <b>Justification:</b> Request you to please clarify so that the compatibility can be sured.	No change
<b>Page No47, 6 (xii)</b>	Fully 3-D speedy iterativere construction with scatter correction, OSEM technique, High definition (HD) and Time-of-flight reconstruction	Fully 3-D speedy iterativere construction with scatter correction, OSEM technique, High definition(HD) and Time-of-flight TOF / (DeepLearning) DL-TOF reconstructionalgorithms must be	No change

	algorithms must be standard features.	standard features.	
<b>Page No49, 8 (iii)</b>	Rates for 400 sets of 200 mldisposable CT syringes with tubing and connector, per year should also be quoted for atleast2 years.	Please clarify whether this will considered in L1 evaluation or not.	No change
<b>Page No49, 8 (v)</b>	Machine specific source forcalibration of the system to beprovided and replaced as andwhen required during the periodof warranty and CMC. At thetime of replacement, old spentsource will need to betransported back by the vendorto the manufacturer without anycost to the institute, to fulfill theAERB conditions.	Please confirm the number of sources required during the warranty and CMC period. Justification: Since the number of sources depends upon the half-life and usage of the source by the end-user hence, it would be requested if the number of sources to be supplied during the warranty and CAMC period is defined to avoid anyambiguity at later stage.	No change
<b>Page No49, 8 (viii)</b>	High resolution color laserprinter for color hardcopy onpaper with 5 sets of allcartridges per year duringwarranty and CMC period	High resolution color laser printer forcolor hardcopy on paper with 5 setsof all cartridges per year duringwarranty <b>Justification:</b> These are consumableitems and can be procured directly bythe institute from the third - partyvendors.	No change
<b>Site Modification/ Turnkey Clarification</b>			
<b>Page No51Point no.II. iii)</b>	Complete equipment layout site plan and details of work (BOQ) should be part of technical bid.	Details of work (BOQ) should be deleted as it is turnkey works	No change
<b>Page No51Point no.II. Viii)</b>	The area considered for Site Modification is 2000 sq feet. However bidder should quote the unit rate, payment will be made as per the actual sitemodification done by the bidder.	The area considered for Site Modification is 2000 sq feet and respective sites drawings are enclosed along with the tender. However bidder should quote the unitrate, payment will be made as per the actual site modification done by the bidder	No change
<b>Page No51Point no.1. ii)</b>	Additional strengthening of floor/ Concrete bed of CT and equipment area, if required	This point to be deleted or Additional strengthening of floor / Concrete bedof CT and equipment area, if required to be done by hospital authority.	No change
<b>Page No51Point no.1. vi)</b>	600x600 mm Vitrified wall tiles in PET CT examination room up tofalse ceiling level.	Washable paint to be done inradioactive area. <b>Justification:</b> As per AERB guideline, Walls of the nuclea rmedicine facility should be painted with hard washable paint.	No change
<b>Page No51Point no.1. vii)</b>	600 x 600 mm glazed vitrified(GVT) tiles in PET CTExamination room and 600 x600 mm glazed vitrified (GVT)tiles with 100 mm tile skirting allother rooms of Pet CT complex.	2mm Linoleum flooring with matching skirting to be done in entire Radioactive area. Justification: As per AERB guideline, Floors of the nuclear medicine facility should be suitably covered with linoleum.	No change
<b>Page No51Point no.2. i)</b>	The supplier shall be required to specify the total load requirements for the PET CT	The supply line will be provided by the Institute in PET CT UPS room with adequate rating MCCB. Further	No change

	including the load of air conditioning , room lighting and for the accessories if any. The supply line will be provided by the Institute up to one point within the PET CT Scan area. The distribution panel for UPS,PET CT shall be provided by the vendor. Few lights in each room shall be connected to the UPS to provide emergency lighting.	distribution to be done by the Supplier. Justification: These details required for estimation of Turnkey cost and to maintain the uniformity.	
<b>Page No51Point no.3. i)</b>	As per the requirement of the equipment, accessories and the infrastructure but not less than 20TR. (Price for 20TR will be considered for price ranking. However, unit rate to be quoted separately). Added Para :Dehumidifier of suitable capacity should also be provided by the vendor.	As per the requirement of the equipment, accessories and the infrastructure but not less than 20TR.Unit rate to be quoted	No change

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

**Note:**

- i. In reference to the extension of bid opening date, the participating bidders who had submitted or are submitting their Bid security/EMD in the form of Bank Guarantee (BG) or FDR are instructed to extend the validity of their BG/FDR accordingly, i.e. required validity of EMD is to be kept in line with the extended bid opening date.**
- ii. Prospective Bidders are also advised to check the website regularly prior to the closing date and time of online submission of bids.**
- iii. Technical Compliance Sheet (v1.0) and Price Bid Format (v1.0) is uploaded on CPP Portal along with this amendment for necessary action of interested bidders. This will supersede any version uploaded earlier.**