

03.08.2018

TAMILNADU MEDICAL SERVICES CORPORATION LTD.,

**TENDER FOR SUPPLY AND INSTALLATION OF 128 SLICE CT SCANNER TO
DEPT. OF RADIOLOGY, GOVT. KILPAUK MEDICAL COLLEGE AND HOSPITAL,
CHENNAI**

TENDER NO.336/CT/KMC/TNMSC/ENGG/2018, DT.06.06.2018

Corrigendum

a) The following corrigendum are issued:-

Sl. No.	Tender document reference	Instead	Read as
1.	Page No.56 Section VI: Technical Specification for 128 Slice CT Scanner 8. Computer System & Image Processor	a) 64 Bit/32 bit main CPU with at least 8 GB RAM memory or better	a) 64 Bit main CPU with at least 32 GB RAM memory or better
2.	Page No.57 Section VI: Technical Specification for 128 Slice CT Scanner 9. Workstation	d) It shall be high speed CPU with a speed of 3.0 GHz or better and with an independent hard disc storage capacity of 1 TB or more. Brain & Body perfusion, Lung Nodule Assessment, Multi-modality tumor Tracking software, liver segmentation-facilitate quantitative assessment of the entire liver, left & right lobes & vasculature, and physician-identified lesions, should be possible on the independent workstation.	d) It shall be high speed CPU with a speed of 3.0 GHz or better and with an independent hard disc storage capacity of 4 TB or more . Brain & Body perfusion, Lung Nodule Assessment, Multi-modality tumor Tracking software, liver segmentation-facilitate quantitative assessment of the entire liver, left & right lobes & vasculature, and physician-identified lesions, should be possible on the independent workstation.

Sl. No.	Tender document reference	Instead	Read as
3.	Page No.57 Section VI: Technical Specification Specification for 128 Slice CT Scanner 12. Others	a) Software for Remote Diagnostics Service over a telephone line	a) Remote service with dedicated broadband line to be registered by the supplier and maintained with internet subscription for ten years. The hospital will submit necessary documents to register the broadband line for use. The remote service should be capable to rectify the evolving errors immediately.
4.	Page No.58 Section VI: Technical Specification Specification for 128 Slice CT Scanner 15. Accessories		Add the following point end of the Accessories:- iv. 4 nos. of two piece Lead Apron set – Vest & skirt type.
5.	Page No.58 Section VI: Technical Specification Specification for 128 Slice CT Scanner 16. Miscellaneous	a. Country of origin of the main equipment USA and or Europe	a. Country of origin of the main equipment USA or Europe or Japan.

b) The following clarification are furnished:-

Sl. No.	Tender document reference	Point Raised	Clarification Furnished
1.	Page No.54 Section VI: Technical Specification Specification for 128 Slice CT Scanner Requirement	Request to add the vendors should quote the model launched in 2015 RSNA or after.	No Change. Hence, published specification prevails.

Sl. No.	Tender document reference	Point Raised	Clarification Furnished
	<p>1. <u>Installation of top of a line Spiral Multi-Slice CT Scanner with capabilities of generate 128 slices per 360 degree in body and Cardiac Scan.</u></p>		
2.	<p>Page No.54 Section VI: Technical Specification Specification for 128 Slice CT Scanner</p> <p>2. Mandatory Essential features:</p> <p>I. Scan Time: <u>The scan time for one gantry rotation of complete 360 deg. Should be 0.4 sec or better.</u></p>	Request to amend as the scan time should be 0.35 sec or better.	No Change. Hence, published specification prevails.
3.	<p>Page No.54 Section VI: Technical Specification Specification for 128 Slice CT Scanner</p> <p>IV. Slice Thickness for Spiral Mode:</p> <p>a. <u>64 slice acquisition with minimum thickness of 0.625 mm or less and 32 slice acquisition with minimum slice thickness 1.25mm or better</u></p>	Request to amend as 64 slice acquisition with minimum thickness of 0.625 mm or less in all acquisitions.	No Change. Hence, published specification prevails.

Sl. No.	Tender document reference	Point Raised	Clarification Furnished
4.	Page No.54 Section VI: Technical Specification Specification for 128 Slice CT Scanner IV. Slice Thickness for Spiral Mode: b) <u>Any variable slice thickness from 0.7mm-7.5 mm in spiral mode and 0.5 mm-10mm in axial mode.</u>	Request to amend as the any variable slice thickness from 0.625mm – 10mm in spiral mode and 0.5mm – 10mm in axial mode. Request to amend as 64 slice acquisition with minimum thickness of 0.625 mm to 10 mm in axial mode.	No Change. Hence, published specification prevails.
5.	Page No.55 Section VI: Technical Specification Specification for 128 Slice CT Scanner VI: Scanning Facility f) <u>Real time contrast monitoring acquisition with auto scan initiation protocol and with auto injector trigger</u>	Request to amend as the Real time contrast monitoring acquisition with auto scan initiation protocol.	No Change. Hence, published specification prevails.
6.	Page No.55 Section VI: Technical Specification Specification for 128 Slice CT Scanner VII: Resolution a) <u>The High contrast Resolution should be at least 21 lp/cm for axial and spiral. (Specify the phantom used,</u>	Request to amend the high contrast resolution should be atleast 15 lp/cm for axial and spiral. Request to amend the high contrast resolution should be atleast 18 lp/cm for axial and spiral.	No Change. Hence, published specification prevails.

Sl. No.	Tender document reference	Point Raised	Clarification Furnished
	<u>scan time, mA, Filter for image reconstruction scan field dose slice and MTF).</u>	Request to amend the high contrast resolution should be atleast 17 lp/cm for axial and spiral.	
7.	Page No.55 Section VI: Technical Specification Specification for 128 Slice CT Scanner <u>3. Pitch: to be freely selectable in auto mode and also manual 0.15 -1.5.</u>	Request to amend as the freely selectable in auto mode and also manual 0.5-1.	No Change. Hence, published specification prevails.
8.	Page No.56 Section VI: Technical Specification Specification for 128 Slice CT Scanner 5. X-Ray Generator: <u>The Generator should be of high frequency type and having at least 80 KW output with max current of 600 mA or more. Mention kV selections.</u>	Request to amend as the generator should of high frequency type and having atleast 75KW output with max current of 600 mA or more. Request to amend as the generator should of high frequency type and having atleast 70KW output with max current of 600 mA or more. Request to amend as the generator should of high frequency type and having atleast 72KW output with max current of 600 mA or more.	No Change. Hence, published specification prevails.

Sl. No.	Tender document reference	Point Raised	Clarification Furnished
9.	Page No.56 Section VI: Technical Specification Specification for 128 Slice CT Scanner 6. X-ray Tube a) <u>Tube of high heat storage capacity 7.5 MHU or more with effective storage of 25 MHU.</u>	Request to amend as the tube of high heat storage capacity 6 MHU or more with effective storage of 15 MHU or more. Request to amend as the tube of high heat storage capacity 7 MHU or more. Request to amend as the tube of high heat storage capacity 7.5 MHU.	No Change. Hence, published specification prevails.
10.	Page No.56 Section VI: Technical Specification Specification for 128 Slice CT Scanner 6. X-ray Tube b. <u>Peak Heat dissipation rate of Anode should be at least 1600Khu/min.</u>	Request to amend as rate of anode should be at least 780 Khu/min. Request to amend as rate of anode should be at least 1000 Khu/min. Request to amend as rate of anode should be at least 1300 Khu/min. Request to amend as rate of anode should be at least 1250 Khu/min.	No Change. Hence, published specification prevails.
11.	Page No.56 Section VI: Technical Specification Specification for 128 Slice CT Scanner 7. Operator Console a) <u>It should have a large 18" or more high resolution LCD</u>	Request to amend as Dual monitor/single monitor for scanning and processing.	No Change. Hence, published specification prevails.

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	<u>monitor with a display 1024 X 1280 matrix or more. Dual monitor console one for scanning and one processing.</u>		
12.	Page No.56 Section VI: Technical Specification Specification for 128 Slice CT Scanner 8. Computer System & Image Processor <u>c) Hard Disc of 250 GB or more.</u>	Request to amend as the Hard Disc of 250 GB x 4 or more.	No Change. Hence, published specification prevails.
13.	Page No.56 Section VI: Technical Specification Specification for 128 Slice CT Scanner 8. Computer System & Image Processor <u>d) Image storage of 4,00,000 or more of 512 matrix</u>	Request to amend as the image storage of 3,00,000 or more of 512 matrix.	No Change. Hence, published specification prevails.
14.	Page No.56 Section VI: Technical Specification Specification for 128 Slice CT Scanner 8. Computer System & Image Processor <u>f) Image Processor: Operating system shall be windows</u>	Request to amend as the operating system shall be windows based or better.	No Change. Hence, published specification prevails.

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	<u>based.</u>		
15.	Page No.56 Section VI: Technical Specification Specification for 128 Slice CT Scanner 8. Computer System & Image Processor g) <u>The image reconstruction time should be at least 20 images /per second or better for all types of acquisition modes including Cone beam correction, Neuro Imaging studies and 512 matrix and standard pitch.</u>	Request to amend as the image reconstruction time should be at least 50 images/per second or better. Request to amend as the image reconstruction time should be atleast 30 images/ per second or better. Request to amend as the image reconstruction time should be atleast 15 images/ per second or better.	No Change. Hence, published specification prevails.
16.	Page No.57 Section VI: Technical Specification Specification for 128 Slice CT Scanner 9. Workstation a) <u>Workstation (single user) from principal CT Manufacturer only:</u> This should be additional Multimodality vendor make and a remote workstation with <u>2 nos. of 18" LCD monitors for post processing, filming.</u>	Request to amend as the workstation (single user) from principal manufacturer only. This should be additional Multimodality vendor make and a remote workstation with a 18" LCD monitor for post processing, filming.	No Change. Hence, published specification prevails.

Sl. No.	Tender document reference	Point Raised	Clarification Furnished
17.	Page No.58 Section VI: Technical Specification Specification for 128 Slice CT Scanner 15. Accessories <u>i. Dual Head Pressure Injector with 500 syringes.</u>	Request to amend as dual head pressure injector with 100 syringes.	No Change. Hence, published specification prevails.
18.		Request to add the additional state of art model based reconstruction should be standard with this specification.	Not required.
19.	Page No.46 Section IV: Special Conditions of Contract 10. Payment (GCC Clause 15) <u>Payment for Goods and Services shall be made in Indian Rupees as follows:</u> <u>(i) No advance payment is payable.</u> <u>(ii) 100% payment will be made against supply and installation of the equipments at the respective sites against certification along with necessary stock entry bills from the respective consignee.</u>	Request to amend as "Payment shall be made in Indian Rupee through Inland Letter of credit with:- a) 80% of payment shall be made against proof of delivery of equipment. b) Balance 20% of payment shall be made within one month from the date of installation.	No Change. Hence, published term prevails.

Sl. No.	Tender document reference	Point Raised	Clarification Furnished
20.	<p>Page No.46</p> <p>Section IV: Special Conditions of Contract</p> <p>16. Annual Maintenance Contract (AMC)</p> <p><u>Any major repair pointed out by the Purchaser shall be rectified by the Supplier from the date of intimation within a period of 3 calendar days and commission the equipment to the satisfaction of the Purchaser. Failing which the Purchaser has a right to levy a penalty on the Supplier a sum of Rs.10,000/- per day or part thereof for each equipment until the equipments are repaired and commissioned to the satisfaction of the Purchaser.</u></p>	<p>Request to amend as monetary penalty, extension of warranty/contract period by two days for every extra day beyond the permissible downtime should be considered.</p>	<p>No Change. Hence, published term prevails.</p>

All other terms and conditions of the tender remain unaltered.

The above forms part of the bidding documents. The bidder shall attach the copy of this corrigendum duly signed by their authorized signatory, in their bid.

Sd/-
General Manager (E)