

Amendment No. 3**05.12.2022****Sub: Amendment to the Global Tender Enquiry Document****Ref.: Notice Inviting Bid ref. HITES/PCD/MCH-AIIMS/02/22-23 dated 24.09.2022 read with its Amendment no. 01 & 02 dated 20.10.2022 & 17.11.2022 and Corrigendum 2 for Auto Bid Extension.**

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

SECTION – I**NOTICE INVITING BIDS (NIB)****Existing:**

S. No.	Tender ID	Brief Description of Goods	Quantity	Bid Security/ EMD amount	Tender Processing Fee (incl. GST)
2	2022_HLL_129553_2	MRI 3T	1	28,00,000	2,950

Amended as:

S. No.	Tender ID	Brief Description of Goods	
2	2022_HLL_129553_2	MRI 3T	This tender is cancelled and need not be quoted.

For all other tenders under this NIB ref. HITES/PCD/MCH-AIIMS/02/22-23:

Description	Existing	Amended as
Bid Submission End Date & Time	06-12-2022 at 02.00 pm	20-12-2022 at 02.00 pm
Closing date & time for submission of tender fee and EMD in physical form	07-12-2022 at 02.00 pm	21-12-2022 at 02.00 pm

Bidders have to submit Original Bank Instruments viz. DD/BC/BG of tender fee and EMD within the mentioned date and time		
Bid Opening Date & Time	07-12-2022 at 02.30 pm	21-12-2022 at 02.30 pm

Note to Prospective Bidders:

In reference to the extension of bid opening date, 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.

SECTION – VII**TECHNICAL SPECIFICATION AND GENERAL POINTS****A. TECHNICAL SPECIFICATION:****Item No. 1 (Tender ID: 2022 HLL 129553 1)****CT 256 Slice (Dual Energy)**

Sr. No.	Tender document Para & Page	Exiting Tender Specification	Amended As
1	Para 1 Point 1.3, pg 45 (Gantry)	Integrated display panel: Gantry front showing current scan parameters such as kV, mA, ECG etc.	Integrated display panel: Gantry front showing current patient details, positions details & ECG etc.
2	Para 3 Point 3.3, pg 45 (Tube assembly)	Focal spot: 1.0 X 1.0 cm or less	Small Focal spot: 1.0 X 1.0 cm or less
3	Para 6, Point 6.2.9, pg 46 (Dual Energy)	Pulmonary Embolism: Automatic detection of filling defects and automatic lesion zoom view.	Pulmonary Embolism: Semi automatic detection of filling defects and automatic lesion zoom view.
4	Para 7 , Point 7.2 (Price to be quoted Separately) pg 46	Automatic multimodality & multivendor radiation dose tracking (dose watch): A web-based dose management solution that captures, tracks, and reports radiation dose directly from the medical device, multi-modality and vendor agnostic. It should	Deleted

Sr. No.	Tender document Para & Page	Exiting Tender Specification	Amended As
		do cumulative dose tracking across the health system to assess radiation dose delivered to patients undergoing a variety of imaging procedures. One should deliver the right dose by detecting the causes of excessive radiation and producing sharp and focused diagnostic images with lower exposure.	
5	Para 7 , Point 7.3 (Price to be quoted Separately) pg 47	Bone reading: Diagnostic bone assessment in radiological CT datasets. The spine and ribs should be displayed in one plane. Unfolded view of the ribs to view the complete rib cage on a single image	Deleted
6	Para 12 Point 12.1, pg 47 (OPERATOR CONSOLE WITH TABLE)	CPU Processor: Minimum quad core processor, 292 GB hard disc, 8 GB RAM. The best available option to be quoted by the vendor.	CPU Processor- Minimum quad core processor, 1 TB Hard Disk, 32-64 GB DDR4 RAM. The best available option to be quoted by the vendor.
7	Para 14 Point 14.2.1, pg 48 (IMAGE POST PROCESSING)	Hardware: Dell/HP/IBM dual CPU; Window server 2008/2012, 64-bit OS, RAM-192 GB minimum; Data Disc: RAID level 5; Graphical processing unit: 2xNVIDIA GPU or equivalent; Image storage minimum 4 TB.	Hardware- Dell/HP/IBM dual CPU; Window server 2008/2012, 64-bit OS, RAM-96/64 GB or better minimum; Data Disc: RAID level 5; Graphical processing unit: 2xNVIDIA GPU or equivalent; Image storage minimum 4 TB.
8	Para 14 Point 14.3.2, pg 48 (IMAGE POST PROCESSING)	CPU unit: Z820 or equivalent CPU unit with dual six core processor, Minimum 16 GB (8 GB X 2) RAM, NVIDIA 1 GB or equivalent and 1TB hard drive , Gigabit network card.	CPU unit: Z820 or equivalent CPU unit with quad core processor, Minimum 16 GB (8 GB X 2) RAM, NVIDIA 1 GB or equivalent and 1TB hard drive , Gigabit network card.

Sr. No.	Tender document Para & Page	Exiting Tender Specification	Amended As
9	Para 17(DOSE REDUCTION TECHNIQUES), Point 17.3, page 49	Advanced Iterative Reconstruction: Model-based Iterative reconstruction technology for all imaging protocols including brain (ADMIRE / FIRST/IMR) or Deep Learning based equivalent technology which reduces dose while simultaneously improving low contrast detectability & spatial resolution and reduces image noise.	Advanced Iterative Reconstruction: Model-based Iterative reconstruction technology for all imaging protocols including brain (ADMIRE / FIRST/IMR/ ASIR-V).
10	Para 21, Point 21.1, pg 50 (DUAL HEAD PRESSURE INJECTOR)	Dual head pressure injector Ceiling mounted	Dual head pressure injector floor/Ceiling mounted
11	Para 25 , Pg 51	UPS (Emerson or APC)	UPS (Emerson/APC/Eaton/FUJI/Legrand)
12	Para 25, Point 25.1 pg 51	Power: Minimum 200 kVA UPS	Suitable online UPS to be provided with sufficient capacity to back up the CT Scanner along with all its accessories for at least 30-mins
13	Para 26, Point 26.2, pg 51 (WARRANTY)	Software updates and upgrades: All future software updates compatible with supplied hardware shall be free of cost during warranty and CMC period. The CT system should be regularly maintained in the latest version of computing software, including software platform upgrades released for the respective system that can prepare it for future enhancements. The CT computing software system should offer built-in security controls to protect the system from	Software update: All future software updates compatible with supplied hardware shall be free of cost during warranty and CMC period. The CT system should be regularly maintained in the latest version of computing software. The CT computing software system should offer built-in security controls to protect the system from vulnerabilities that can result in cyberattacks or inappropriate access to patient data. The built-in security should comply with the latest international standards of data security and encryption, as well as

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		vulnerabilities that can result in cyberattacks or inappropriate access to patient data. The built-in security should comply with the latest international standards of data security and encryption, as well as with existing regulations to protect personal and protected health information (e.g. GDPR, HIPAA, any local regulation) , during the complete life of the system	with existing regulations to protect personal and protected health information (e.g. GDPR, HIPAA, any local regulation) , during the complete life of the system
14	Para 28 Point 1 (The Scope of Work-Site Modification Work)	The scope of work includes complete Civil work, Electrical, Plumbing, Furnishing, Air-conditioning and Fire fighting for the construction of CT Scan Centre	The scope of work includes complete Civil work, Electrical, Plumbing, Furnishing, Air-conditioning and detection for the construction of CT Scan Centre
15	Para 4 , pg 54(Air-Conditioning)	A multi-split air – conditioning system should be provided for CT area including equipment/ examination room and control room where the temperature requirement is 20±2 degree’s with 10 to 12 air changes per hour throughout the year	Ductable Split / Ductable package air conditioners provided for CT area including equipment/ examination room and control room where the temperature requirement is 22±2 degree’s . The Air conditioning should be designed with standby provision to function 24 hours a day. Humidity control should be effective to eliminate moisture condensation on equipment surface
19	Para 28 (Site Modification Work), Point 3 , pg 52	The cost of Site Modification for the area as per annexure and Air-conditioning of Tonnage for the Area will be considered for Ranking / Evaluation purpose.	The cost of Site Modification for the area 1250 sq. ft as per annexure and Air-conditioning of Tonnage 25 TR (including standby unit/s) will be considered for Ranking / Evaluation purpose.

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20	NA	NA	Added Para: The actual area of site modification work done will be considered for payment on prorata basis, based on the unit rates and site measurements.
21	BOQ pg 55	NA	Added Para : Prices to be quoted separately 1. Advanced Lung analysis 2. Complete liver segmentation (automated) 3. Cinematic VRT
22	Para 21(DUAL HEAD PRESSURE INJECTOR), Point 21.2 Page 50	1000 syringe set with 500 nos. patient tubings per year. To be supplied for 5 years (Total 5000 syringe set in 5 years)	1000 syringe set with 500 nos. patient tubings per year. To be supplied for 5 years (Total 5000 syringe set in 5 years). However syringes and tubings are to be supplied in a scattered manner as and when required by the hospital.
23	Para (Components of Site Modification Work), point 1 (Under BOQ) , page 55	Civil works: Ls	Civil works- 1250 sq. ft.
24	Para (Components of Site Modification Work), point 2 (Under BOQ) , page 56	Electrical work: Ls	Electrical work: 1250 sq. ft.
25	Para (Components of Site Modification Work), point 3 (Under BOQ) , page 57	Public health (plumbing and sanitary fittings): Ls	Public health (plumbing and sanitary fittings): 1250 sq. ft.
26	Para (Components of Site Modification Work), point 4 (Under BOQ) , page 58	Air Conditioning: Ls	Air Conditioning: 25TR

Important Note to Prospective Bidders:

- i) Based on the above amendment, Technical Compliance Sheet 'TC_2022_HLL_129553_1_Ver1.0' in CPP portal has been superseded by a new version i.e. 'TC_2022_HLL_129553_1_Ver1.1'. The same need to be downloaded for submission by participating bidders.
- ii) Based on the above amendment, Price Bid Format 'PriceBid_2022_HLL_129553_1_Ver1.0' in CPP portal has been superseded by a new version i.e. 'PriceBid_2022_HLL_129553_1_Ver1.1'. The same need to be downloaded for submission by participating bidders.

Item No. 3 (Tender ID: 2022_HLL_129553_3)**High End Ultrasound with Real Time Shear Wave Elastography and Contrast Imaging**

Sr. No.	Tender document Para & Page	Existing Tender Specification	Amended As
1	Para 4 Page 80	The system should have 60000 or more digital processing channels	The system should have 4000000 Digital Processing channel OR 230 and More Hardware Channels.
2	Para 6 Page 80	The system should have a dynamic range of 180 dB or more.	The system should have a dynamic range of 230 dB or more.
4	Para 9 Page 80	The system should have advanced color Doppler facility to position at least three spectrograms (online or offline) on a single image within the same cardiac cycle to simplify the workflow and reduce the examination time for Vascular application.	The system should have advanced color Doppler facility to position at least one spectrogram (online or offline) on a single image within the same cardiac cycle to simplify the workflow and reduce the examination time for Vascular application.
6	Para 16 Page 80	The system should have the 'Speed of Sound Correction' feature. Specify number of such sound correction speeds to adapt to tissue type. This feature should be available both in linear and convex transducers	Deleted
10	Para i, Page 81	Real time Shear Wave tissue elastography imaging with Convex, Linear,	Real time Shear Wave tissue elastography imaging with Convex, Linear and

Sr. No.	Tender document Para & Page	Existing Tender Specification	Amended As
		Microconvex, Hockey Stick, Endocavitary transducers.	Endocavitary transducers.
19	Para 6 (Transducers) Page 82	Linear 3D volume probe 5-16 MHz	Deleted
21	NA	NA	Added Para: Scanner should have Integrated touch panel
22	NA	NA	Added Para: A Dry chemistry camera of 500 DPI or more with two active trays.
23	Para 9 (BOQ and accessories) Page 82	Color laser jet printer (wi-fi enabled)	Deleted
24	Para , Page 82	Transducers: Following transducers should be offered with the system (All transducers must have Shear wave Elastography imaging mode available):	Transducers: Following transducers should be offered with the system (+/- 1MHz tolerance) (All transducers must have Shear wave Elastography imaging mode available):

Note to Prospective Bidders:

- (i) Based on the above amendment, Technical Compliance Sheet 'TC_2022_HLL_129553_3_Ver1.0' in CPP portal has been superseded by a new version i.e. 'TC_2022_HLL_129553_3_Ver1.1'. The same need to be downloaded for submission by participating bidders.
- (ii) Based on the above amendment, Price Bid Format 'PriceBid_2022_HLL_129553_3_Ver1.0' in CPP portal has been superseded by a new version i.e. 'PriceBid_2022_HLL_129553_3_Ver1.1'. The same need to be downloaded for submission by participating bidders.

Item No. 4 (Tender ID: 2022 HLL 129553 4)**Ultrasound-Mid Range**

Sr. No.	Tender document Para & Page	Exiting Tender Specification	Read As
1	Para 2 Page 83	System should have a minimum of 60,000 digital processing channels.	"The system should have 4000000 Digital Processing channel OR 230 and More Hardware Channels.

Sr. No.	Tender document Para & Page	Exiting Tender Specification	Read As
2	Para 3 Page 83	System should have dynamic range of 200 dB or more.	System should have dynamic range of 230 dB or more.
3	Para 4 Page 83	System should be offered with a 19 inch or more High Resolution Flat Panel Medical grade Display monitor with facility for position adjustments.	System should be offered with a 21 inch or more High Resolution Flat Panel Medical grade Display monitor with facility for position adjustments.
4	Para 5 Page 83	System should have at-least three universal active probe ports with electronic switching facility from key board without probe adapter.	System should have at-least four universal active probe ports with electronic switching facility from key board without probe adapter.
6	Para 15 Page 83	System should be offered with a 2D frame rate of at least 500 frames/ second.	System should be offered with a 2D frame rate of at least 1500 frames/second.
11	Para 5 (transducer) Page 84	7-15 MHz or better Endoanal transducer with sector angle of 360°.	Deleted
12	Para Accessories point 2 pg 84	A Dry chemistry camera of 500 DPI or more with two active trays.	A Dry chemistry camera of 500 DPI or more with two active trays and Thermal printer
15	NA	NA	Added Para: System should have Integrated touch panel
16	Para 8 (BOQ) Page 85	Dry chemistry camera of 500 DPI-6Nos	A Dry chemistry camera of 500 DPI or more with two active trays- 2 Nos Thermal printer - 4 Nos
17	Para and Page 83	System should be offered with the following transducers:	System should be offered with the following transducers (+/- 1MHz tolerance):

Note to Prospective Bidders:

- (i) Based on the above amendment, Technical Compliance Sheet 'TC_2022_HLL_129553_4_Ver1.0' in CPP portal has been superseded by a new version i.e. 'TC_2022_HLL_129553_4_Ver1.1'. The same need to be downloaded for submission by participating bidders.
- (ii) Based on the above amendment, Price Bid Format 'PriceBid_2022_HLL_129553_4_Ver1.0' in CPP portal has been superseded by a new version i.e. 'PriceBid_2022_HLL_129553_4_Ver1.1'. The same need to be downloaded for submission by participating bidders.

Item No. 5 (Tender ID: 2022 HLL 129553 5)**Ultrasound High End for Obstetrics use**

Sr. No.	Tender document Para & Page	EXITING TENDER SPECIFICATION	Read As
2	Para 3 Page 86	The System should be having a minimum of 60,000 system processing channel technology. Original technical data sheet should be enclosed in technical bid to support.	The System should be having a minimum 50,00,000 digital processing channel technology. Original technical data sheet should be enclosed in technical bid to support.
3	Para 4 Page 86	The system should have the latest platform of Matrix technology & Electronic 4D convex Probe.	The system should have the latest platform of Matrix/single crystal technology or equivalent technology & Electronic 4D convex Probe.
5	Para 7 Page 86	System should be capable of scanning depth of 30 cms or more in 2D scanning modes.	System should be capable of scanning depth of 35 cms or more in 2D scanning modes.
7	Para 9 Page 86	2D acquisition frame rates should be more than 500 frames/sec, colour Doppler frame rate more than 300/esc.	2D acquisition frame rates should be more than 2000 frames/sec , colour Doppler frame rate more than 300/esc.
8	Para 12 Page 86	Extended field of view imaging should be available on convex and linear transducers, minimum 15 degree.	wide field of view imaging should be available on linear transducers, minimum 15 degree.
11	Para 20 Page 87	The system should have 4 universal probe ports with 3 active ports with electronic switching facility.	The system should have 4 universal probe ports with 4 active ports with electronic switching facility.
12	Para (peripheral devices) Point 3, pg 87	A Dry chemistry camera of 500 DPI or more with two active trays.	A Dry chemistry camera of 500 DPI or more with two active trays and Thermal printer
14	Para 2 (transducer) Page 87	4-9 MHz or better Broadband Endocavitary Transducer with 3D imaging	4-9 MHz or better Broadband Endocavitary Transducer with 3D and 4D imaging
17	NA	NA	Added Para: Should have integrated touch

			panel
20	Para 6 (BOQ and Accessories) Page 88	Dry chemistry camera of 500 DPI-3Nos	A Dry chemistry camera of 500 DPI or more with two active trays- 1 No Added Para: Thermal printer - 2 Nos
21	Para and Page 83	System should be offered with the following transducers (Should attach technical data sheet of transducers to specify details)	System should be offered with the following transducers (+/- 1MHz tolerance) (Should attach technical data sheet of transducers to specify details)

Note to Prospective Bidders:

- (i) Based on the above amendment, Technical Compliance Sheet 'TC_2022_HLL_129553_5_Ver1.0' in CPP portal has been superseded by a new version i.e. 'TC_2022_HLL_129553_5_Ver1.1'. The same need to be downloaded for submission by participating bidders.
- (ii) Based on the above amendment, Price Bid Format 'PriceBid_2022_HLL_129553_5_Ver1.0' in CPP portal has been superseded by a new version i.e. 'PriceBid_2022_HLL_129553_5_Ver1.1'. The same need to be downloaded for submission by participating bidders.

Item No. 6 (Tender ID: 2022 HLL 129553 6)**Portable Ultrasound**

Sr. No.	Tender document Para & Page	Existing Tender Specification	Amended As
3	Para A.2 Page 89	Display screen should be of at least 10 inches in size with high resolution color LCD/TFT.	Display screen should be of at least 12 inches in size with high resolution color LCD/TFT.
4	Para A.4 Page 89	The system should have imaging depth 20 cm or more.	The system should have imaging depth 28 cm or more.
10	Para 17. iii Page 90	Small footprint (15 mm or less) transducer for pediatric applications	Small footprint (25 mm or less) transducer for pediatric applications
11	Para 18 Page 90	Unit weight should not exceed 5 Kg (with battery but without trolley).	Unit weight should be less than 8 Kg (with battery but without trolley).
12	Para 19 Page 90	Boot time (from power off state to ready to scan)	Boot time (from power off state to ready to scan) should be 60

Sr. No.	Tender document Para & Page	Existing Tender Specification	Amended As
		should be 30 seconds or less.	seconds or less.
13	Para 20 Page 90	The backup of battery should 60 minutes or more of continuous operation. Additional battery should be provided.	The backup of battery should 45 minutes or more of continuous operation. Additional battery should be provided.
15	Para 23 Page 90	The system should be able to connect to a multi-port DICOM compatible dry chemistry camera without need for additional software.	The system should be able to connect to a multi-port DICOM compatible dry chemistry camera and thermal printer without need for additional software.
20	(BOQ) Page 91	NA	A Dry chemistry camera of 500 DPI or more with two active trays- 3 Nos Thermal printer - 4 Nos
21	Para 17, Page 89	Following transducers to be offered with the system	Following transducers to be offered with the system (+/- 1 MHz tolerance)

Note to Prospective Bidders:

- (i) Based on the above amendment, Technical Compliance Sheet 'TC_2022_HLL_129553_6_Ver1.0' in CPP portal has been superseded by a new version i.e. 'TC_2022_HLL_129553_6_Ver1.1'. The same need to be downloaded for submission by participating bidders.
- (ii) Based on the above amendment, Price Bid Format 'PriceBid_2022_HLL_129553_6_Ver1.0' in CPP portal has been superseded by a new version i.e. 'PriceBid_2022_HLL_129553_6_Ver1.1'. The same need to be downloaded for submission by participating bidders.

All other contents of the Global Tender Enquiry Document including terms & conditions remain unaltered.