

Amendment No. 06**Date: 02.06.2023****Sub: Amendment No.06 to the Tender Enquiry Document****Ref: (i) Tender No: HITES/PCD/AIIMS PATNA/04/22-23 dated 30-03-2023****Section I**
Notice Inviting Tenders (NIT)

Tender timeline:

For:-

Sl. No.	Description	Schedule
b.	Closing date & time for submission of online bids	15.06.2023, 01:00 PM
c.	Closing date & time for submission of tender processing fee and EMD in physical form*	16.06.2023, 02:00 PM
d.	Time and date of opening of online bids	16.06.2023 02:30 PM
e.	Venue for :- Submission of tender processing fee, EMD in physical form. Tender Opening-Tech Bid	HLL Infra Tech Services Limited, Procurement & Consultancy Services Division, B-14 A, Sector-62, Noida-201307

Read As:-

Sl. No.	Description	Schedule
b.	Closing date & time for submission of online bids	22.06.2023, 01:00 PM
c.	Closing date & time for submission of tender processing fee and EMD in physical form*	23.06.2023, 02:00 PM
d.	Time and date of opening of online bids	23.06.2023 02:30 PM
e.	Venue for :- Submission of tender processing fee, EMD in physical form. Tender Opening-Tech Bid	HLL Infra Tech Services Limited, Procurement & Consultancy Services Division, B-14 A, Sector-62, Noida-201307

Note: If EMD is submitted in the form of BG/FDR, then the validity of the BG/FDR should be at least 775 days from the date of tender opening.**All other terms and conditions of the tender enquiry remain unaltered**

SECTION – VII
TECHNICAL SPECIFICATIONS

Technical Amendment- Item Name: Biplane DSA Unit		
HITES/PCD/AIIMS PATNA/04/22-23 dated 30-03-2023		
Tender Page & Para	TENDER SPECIFICATION	AMENDED AS
2	Table	
	Added Para	2.4 It should be provided with all radiolucent attachment Necessary Arm support board, elbow support, drip stand & high quality radiolucent height adjustable Neuro head holder with clamps for immobilizing & stabilising the patient head should be provided.
4	X ray Tube	
4.1	X-Ray tube should be with fine focal spot (Small & Large) with high cooling rate to ensure continuous operation capable pulse fluoroscopy on both focal spots. The large focus power output should be 65 KW or more. The pulse fluoroscopy should be offered with pulse rate of 7.5 frames/sec to 30 frames/sec.	X-ray tube should be with fine focal spot (small & large) with high cooling rate to ensure continuous operational cable pulse fluoroscopy on both focal spots. The large focus power output for both the planes should be 80 KW or more. The pulse fluoroscopy should be offered with pulse rate of 7.5 frames/sec to 30 frames/sec
4.2	The X-Ray tube should have Anode heat storage capacity of at least 5.0 MHU or more to run continuously for 6-8 hours without shutting off with appropriate anode heat dissipation rate	The X-ray tube should have anode heat storage capability of at least 3.0 MHU or more to run continuously for 6-8 hours without shutting off with Anode heat dissipation /cooling rate should be 18000W or more .
4.3	X ray tube must have Secondary grid switching in both fluoro & cine	X-Ray Tube must have secondary grid switching/ flat emitter technology in both fluoro & cine.
6	Digital Imaging system	
6.1	Both planes should have flat panel detectors with diagonal size of at least 42 cm for the frontal plane and 24 cm for the lateral plane. Please mention pixel size. The smaller pixel size will be preferred.	Both planes should have flat panel detectors with the diagonal size at least 20 inch for the frontal plane and 15 inch for the lateral plane. please mention pixel size. The small pixel size will be preferred

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6.9	The system should have facility of rotational angiography with online rotational of DSA facility. The facility should be 3D reconstruction of brain and heart.	The system should have facility of 3D rotational angiography & 3D Roadmap. The facility should be 3D reconstruction/fusion overlay of brain and heart. Latest Cone Beam CT should be possible with the capability of latest Sinusoidal/Helical scan.
6.13	The latest complete software and hardware for visualizing stent with extra high resolution from table side control.	The latest complete hardware and software for visualizing stent with extra high resolution from table side control. Stent visualization enhancement with respect to lumen (fade in /fade out) feature must be provided. Real time stent enhancement package must be provided.
7	Monitor/Display	
7.2	A standby high resolution TFT/LCD monitor of at least 19 inches along with large display to be offered 1 nos.	Standby high resolution TFT/LCD monitor of at least 19 inches along with large display to be offered : 2 nos.
7.3	Control room should have at least 2 nos of widescreen medical grade monitors for display of live playback reference images of each plane.	"Control room should have at least 4 nos of 19 inch medical grade monitors for display of live playback reference images of each plane".
9	3D Acquisition and cross sectional imaging	
9.2	The System should have cross-sectional CT like imaging based on rotational CT like imaging based on rotational Angiography for visualization of bleeding ventricular system of the brain and micro stent placement	The System should have cross-sectional CT like imaging based on rotational CT like imaging based on rotational Angiography for visualization of bleeding ventricular system of the brain and micro stent placement. Latest Sinusoidal/helical scan should be offered as standard.
10.5	Electrophysiology simulation & RF ablator system should be provided from Same manufacturer (Price to be quoted separately)	Electrophysiology simulation & RF ablator system should be provided from Same manufacturer (Price to be quoted separately). It can be used in radiofrequency lesioning in deep brain tissues and have application in epilepsy surgery and lesioning in subthalamic,thalamic and other such deep brain tissue and should be provided with assorted size of lesioning electrodes.
	Radiation Protection	

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2	The system must have latest generation software-hardware packages for radiation safety of operator and patient with documentation of radiation dose per fluoroscopy/cine time like ALURA CLARITY or CARE & CLEAR or similar other equivalent.	The System must have latest generation software /hardwares package for radiation safety of operator and patient with documation of radiation dose per fluroscopy online the clarity IQ , OPTIQ and Auto Right or Similar other equivalent.
	Patient should include : Coregistration of IVUS and OCT equipment with lab, Echo image fusion, CT image fusion, TAVI guidance packages, stent boost options	The system should include <ul style="list-style-type: none"> • CT/MR/PET image fusion • 3D road mapping facility directly from CT/MR 3D image without rotational angio 3D image to save contrast and radiation, i) Aneurysm flow/Dyna 4D DSA, Echo image fusion on Xray, CT image fusion . TAVI guidance packages., Stent boost live option.