

CORRIGENDUM-I dtd 28.06.2024

TENDER NO.SCT/H/IMP-IND/P2/2023-24/03

**SUPPLY INSTALLATION TESTING AND COMMISSIONING OF SINGLE PLANE CATHLAB WITH CATH RECORDER FOR
CARDIOLOGY, NHB,PMSSY**

Date of submission of Bid (Online and Offline) and Tender Opening date		
Particulars	Dates And Time Given As Per Tender	Date and Time changed to
Last date and time of online submission of bid.	15.05.2024 upto 05.00 PM	16.08.2024 upto 05.00 PM
Last date and time of submission of Hardcopy of Technical Bid with supporting documents (price bid has to be submitted online only). The tender will stand rejected if the price bid is submitted along with hardcopy of technical bid	17.05.2024 upto 03.00 PM	17.08.2024 upto 03.00 PM
Date of Tender Opening	18.05.2024 at 02.30 PM	19.08.2024 at 02.30 PM

TERMS AND CONDITIONS		
1	As per Tender	To be read as
1.B	Latest state of art Single plane with flat detector technology Digital Angiography System, Rotational angiography, Roadmap required for Cardiology diagnostic angiography and interventional procedures Companies should quote the latest and most technically advanced models with all advanced dose	Latest state of art Single plane with flat detector technology Digital Angiography System, Rotational angiography, Companies should quote the latest and most technically advanced models with all advanced dose reduction techniques available at the time of submission.

	reduction techniques available at the time of submission.	
2.A.9	Iso-center-to-floor distance at least 100 cm, focus-to-iso-center distance at least 70 cm, maximum patient coverage approx 185 cm or more. (desirable)	Iso-center-to-floor distance at least 100 cm, focus-to-iso-center distance at least 70 cm, maximum patient coverage approx 180 cm or more. (desirable)
2.A.10	Variable focal spot-to-detector within 90 cm and 119cm distance and speed up to 9cm/sec or more.	Variable focal spot-to-detector within 90 cm and 119cm distance and speed up to 8.9cm/sec or more.
2.B	Patient angiography table	
2.B.4	Table should allow head to toe coverage of adult patients without repositioning (desirable)	Delete
2.B.14	Motorized longitudinal travel 120cm or more	Motorized/manual longitudinal travel 110cm or more
2.B.19.d	Drip stand	Delete
2.B.19.j	Articulating arm support	Articulating arm support – 2 nos.
2.D.	X-ray tubes	
2.D.5	Anode heat storage capacity should be 5 MHU (actual value) or more having liquid bearing technology or metal lubricant or equivalent performance. The system should have adequate cooling facility for the X-Ray tubes for uninterrupted, performance during procedure	Anode heat storage capacity should be 3.3 MHU (actual value) or more having liquid bearing technology or metal lubricant or equivalent performance. The system should have adequate cooling facility for the X-Ray tubes for uninterrupted, performance during procedure
2.E	Collimator:	
2.E.2	Facility for asymmetric collimation will be an added advantage and will be preferred.	Facility for asymmetric/ Virtual collimation will be an added advantage and will be preferred.

2.F	Flat panel detector	
2.F.6	Detector / image rotation landscape/portrait selection with vertical display	Detector / image rotation landscape/portrait selection with vertical display in case rectangular detector.
2.F.7	Pixel size 185 microns or less.	Pixel size 200 microns or less.
2.G	Image display monitors –	
2.G.1	Image display monitors in examination room: 55inch or higher size Single monitor 4 or more 19inch or higher size	Image display monitors in examination room: 55inch or higher size Single monitor OR 4 or more numbers 19 inch or higher size multiple monitors.
2.G.2.d	One display for stent magnification display	Delete
2.H	Rotational angiography	
2.H.1	Rotational angiography for coronary & pediatric angiography	Rotational angiography for pediatric angiography
2.J	System operation:	
2.J.1	In exam room: complete system operation with controls at patient table for controlling c-arm projection, patient table and collimator. Multifunction joy stick for operation of the image system	In exam room: complete system operation with controls at patient table for controlling c-arm projection, patient table and collimator. Multifunction joy stick for operation of the image system. One at table foot end and one at table-side for operator.
2.J.2	One at table foot end and one at table-side for operator. Multifunction foot switch for fluoroscopy, radiography, table brakes (the operator should be	Multifunction foot switch for fluoroscopy, radiography, light source, parallel view etc. Data display monitor system and table geometry, system

	able to release the table from braked position), light source, parallel view etc. Data display monitor system and table geometry, system messages, dose data etc in addition to other monitors in examination room.	messages, dose data etc in addition to other monitors in examination room.
2.K	Radiation protection features	
2.K.6	Low dose fluoroscopy mode up to 7.5 FPS and 3.75 FPS	Low dose fluoroscopy mode up to 7.5 FPS .
2.K.11	Radiation-free positioning of primary and secondary collimators via graphic representation on last image hold	Radiation-free positioning of primary and secondary collimators via graphic representation on last image hold (desirable)
2.K.14	Scattered dose estimation for operator exposure in real time (proprietary or third party functionality) real time display of radiation exposure to primary and secondary operator, using wearable exposure detectors and real time display on mountable display panel subject to regulatory approval.	Scattered dose estimation for operator exposure in real time (proprietary or third party functionality) real time display of radiation exposure to primary and secondary operator, using wearable exposure detectors (minimum of 5) and real time display on mountable display panel subject to regulatory approval.
2.L	Software	
2.N.9.a.1	Radiation protection apron- Light weight lead (Non lead protection gadgets would be desirable)-18nos, 2-piece type,single piece type 2 nos	Radiation protection apron- Light weight lead (Non lead protection gadgets would be desirable)- 20 nos (2-piece type-18nos,single piece type 2 nos)
2. N.5.	Hemodynamic recorder	Hemodynamic recorder with workstation
2. N.5.b	Two or more invasive pressure display and necessary transducers, connectors	Two or more invasive pressure outputs should be displayed simultaneously on the screen. Necessary transducers, connectors, etc. should be supplied.
2. N.5.i	Should have all calculation packages for pressure wave form analysis, valve area; gradient off-line and on-line.	Should have all calculation packages for pressure wave form analysis, valve area; gradient off-line and on-line. Standard calculation should be available.

2.O	ADDITIONAL REQUIREMENTS	
2.O.2	Radiation protection goggles -10 no's	Delete
2.O.3	Console room and review station in the Cath lab with computer and DVD/CD writing	Delete
2.O.4	Console room chairs and tables (as per site requirement)	Delete
2.P	Turnkey work	
2.P.2	All products should be designed and manufactured according to ISO 9001:2000 standards. System of stainless-steel wall panels stainless steel type EN 1.4301 powder coated, ceiling panels, interior doors and windows should be designed for operating theatres, treatment rooms as well as rooms in which high sanitary and hygienic standards are required.	All products should be designed and manufactured according to ISO 9001:2000 standards.
2.P.1.a	Electrical Work	
2.P.1.b	HVAC Work inside Cath lab	
2.P.1.b.1	The cathlab vender should provide HVAC ducting from the available 7TR 3400CFM floor mounted AHU to the terminal unit (diffusers/ grilles). Ducting and all terminal unit design should be in the scope of the vendor. Cath lab vendor hould coordinate with the AHU supplier.	The cathlab vender should provide HVAC ducting from the available 7TR 3400CFM (for the examination room) floor mounted AHU to the terminal unit (diffusers/ grilles). Ducting and all terminal unit design should be in the scope of the vendor. Cath lab vendor should coordinate with the AHU supplier.

		Additional Cassette type 3TR for console room and 4Trx2 for UPS and Equipment room will be provided at site. (Total 18TR)
2.Q	General Terms &Condition:	
32.II.b	The defect should be rectified within two days after the call is attended, failing which replacement or standby equipment should be provided for uninterrupted services.	Deleted
32.II.c	In case of non-adherence to clause (a) or (b) above, downtime penalty will be realised a sum equivalent either the repairing charges met by the Institute to set right the equipment or 0.1 percent per day of cost of the equipment, whichever is higher, from the date of report of breakdown by way of deductions from SD/Performance Bank Guarantee.	In case of non-adherence to clause (a) above, downtime penalty will be realised a sum equivalent either the repairing charges met by the Institute to set right the equipment or 0.1 percent per day of cost of the equipment, whichever is higher, from the date of report of breakdown by way of deductions from SD/Performance Bank Guarantee.
	All other terms and conditions shall remain unchanged as per e-Tender document dtd 13.03.2024.	

Sd/-
Director