



बी.पी. कोईराला स्वास्थ्य बिज्ञान प्रतिष्ठान, धरानको
कोटेशन माग गरिएको सुचना

(सुचना प्रकाशित मिति: २०८०/०३/२१)

यस प्रतिष्ठानलाई आवश्यक तपशिलका उल्लेखित Floor/ Ceiling Mounted Digital Radiography X-ray Machine खरिद गर्नुपर्ने भएकोले इजाजत प्राप्त प्रतिष्ठानमा सुचिकृत फर्म, संस्था, कम्पनीबाट अद्यावधिक फर्म दर्ता प्रमाणपत्र, मु.अ.कर दर्ता प्रमाणपत्र, आ.व.२०७८/०७९ को कर चुक्ताको प्रमाणपत्र, Manufacturing Authorization Letter, Catalogue, Broacher को प्रतिहरु संलग्न गरी यो सुचना प्रकाशित मितिले ११ दिन भित्र कोटेशन पेश गर्नुहुन सुचित गरिन्छ। माग गरिएको कोटेशन तोकिएको म्यादभित्र प्रतिष्ठानको दर्ता चलानी फाँटमा खामबन्दी दर्ता गर्नुहुन वा quotation.procurement@bpkihs.edu मा email मार्फत पेश गर्नुपर्नेछ।

SN.	Product Name	Qty.	Unit
1	Floor/ Ceiling Mounted Digital Radiography X-ray Machine	1	Nos

Technical Specification of Floor/Ceiling Mounted Digital Radiography X-ray Machine with Integrated Flat Panel Detectors (FPD) System

S.N.	Purchaser's Required Specifications	Bidder's offer/ Statement of Compliance (Yes/No/Deviation if any)	Page Number in Catalogue	Remarks
1.	GENERAL			
	a. Manufacturer: Specify			
	b. Brand: Specify			
	c. Model: Specify			
	d. Country of Origin: Specify			
	e. Description: New & Latest technology Floor-mounted or ceiling mounted multi-purpose digital radiography system with FPD which can meet the full range of clinical application in routine and emergency setting			
2.	GENERATOR			
	a. Generator should be of latest technology with high frequency technology for constant output.			
	b. Power source: It should be compatible with power supply available at BPKIHS			
	c. Output: 50 KW or more.			
	d. KVp range: 40 - 150 KVp. Please specify			
	e. Tube current (mA): ≥ 500 mA			
	f. Technique selection: It should display exposure parameters like kVp, mAs, etc.			
3.	X-RAY TUBE			
	a. The x-ray tube should be rotating anode high speed, Compatible with the generator and must have dual focus. Please mention the anode rotation speed in rpm.			
	b. Large focus: 1.2mm or less			
	c. Small focus: 0.6mm or less			
	d. Max. Anode HU: 200 kHU or more			
	e. The system should have manual/automatic exposure control (AEC)			
4.	COLLIMATION			
	a. Control: Manual / Automatic			

	b. Field Shape: Rectangular			
5.	X-RAY TABLE			
	a. Type: Floating table			
	b. Patient table movement: Electromagnetic Lock and release			
	c. The table should have movements in longitudinal & transverse direction.			
	d. Should have minimum capacity of 180 Kg or more			
	e. It should have in built Bucky tray to accommodate the provided Flat Panel Detector (FPD)			
6.	VERTICAL WALL STAND AND BUCKY SYSTEM			
	a. Integrated vertical bucky system with FPD should be available.			
7.	DETECTOR SYSTEM: 2 units (one for Table Bucky & another for Vertical Bucky)			
	a. Two Digital flat panel detector systems with detector integrated into the bucky table as well as vertical bucky with charging facility should be available.			
	b. The size of the detector should be 35 cm x 43 cm (14"x17" inches) or more.			
	c. Scintillator: CsI + TFT			
8.	WORKSTATION			
	a. The digital workstation should consist of at least 19 inch or larger monitor. Please mention the bit depth.			
	b. It should have image storage disk of 500 GB or more and 8 GB RAM or more.			
	c. The system should be DICOM compatible and networking capability with RIS/HIS/PACS.			
	d. Post processing functions should be available.			
	e. Console Table to adjust the Computer Setting/Console - 1 pc			
	f. Revolving/ Height Adjustable Chairs - 2 pcs			
	g. Radiation Protective Lead Glass window of adequate thickness between X-ray room and operator console.			
9.	X-RAY FILM PRINTER: 1 Pc			
	a. State-of-art compatible film printer for filming from the workstation/main console. It should have at least two film size/slot and should be capable to print of any of the 10x12 and 14x17 inch size film.			
	b. The system should also be compatible with other existing film printer available in the Radiology department.			
10.	ESSENTIAL ACCESSORIES			
	a. On line UPS with 30 minutes back up for entire system including X-ray machine, Film Printer, Workstations/Console & AC.			
	b. Air Conditioner (AC) of adequate capacity for X-ray Room & Console			
	c. Standard Radiation Protective Accessories/Devices:			
	I. Lead Apron - 2 pcs			
	II. Thyroid Shield - 2 pcs			
	III. Gonad Shield - 2 pcs			
	IV. Lead Apron hanger - 2 pcs			
	V. Stand for intravenous fluid drip fluid - 1 pc			
11.	CERTIFICATION & DOCUMENTS			
	a. Must submit USFDA or CE certificate and certificate should be submitted during bidding			
	b. Must submit duly signed Compliance Sheet			

	c. A copy of user/operating manual should be submitted during installation.			
	d. The onsite operational training should be given by qualified personnel to the users and maintenance training to the hospitals biomedical engineer and technicians.			
	e. Comprehensive Warranty of entire system including X-ray machine, integrated FPDs, Film Printer, UPS & AC for two			
	years from the time of installation.			
	f. 95% uptime warranty must be provided. If downtime is more than 5%, penalty of double the downtime shall be added to the warranty.			
	g. During the warranty period suppliers must ensure planned preventive maintenance (PPM) along with corrective /breakdown maintenance whenever required.			
	h. Hard copy and soft copy of both user manual and service manual in English should be provided at the time of installation.			
11.1 The Bider Most quote Frozen Rate of comprehensive maintainance contract (CMC) for a period of 5 yearss which must not exceed 5% of equipment's cost				
12.	CIVIL WORKS			
	a. It shall be installed on a turnkey basis including installation of X-ray machine with civil modification, flooring, painting, radiation protective barrier (brick/concrete wall) between the X-ray room & Console room, electrical works, AC work and drainage, etc. All walls and infrastructure should be radiation protected which should comply with the standard and local guidelines.			
13.	INSTALLATION AND INSPECTION			
	a. Inspection to verify the compliance offered equipment as per the specification will be conducted by Technical Team appointed by BPKIHS.			

Note:

- This proposed technical specification is not targeted to any single or particular company or model/ brand of the machine.
- If any application / software / technology words or terminology are specific to any company then they can quote equivalent or better application / software / technology which should be justified.