



No. Thi/Pol/103/01/20
Embassy of India
Thimphu

CORRIGENDUM

January 07, 2021

Reference is invited to this Embassy's tender no. Thi/Pol/103/01/20 dated 24 December 2020 inviting bids under two-bid system (technical and financial bids) from registered and authorized firms/agencies for supply of six (06) units of portable x-ray machines to the Embassy of India, Thimphu.

2. The following changes effected herewith may be treated as substituted in the tender document, with specific reference to Chapter 3 on "Technical Specifications":

Chapter 3: TECHNICAL SPECIFICATIONS

1. Technical Specifications of six (06) units of portable digital x-ray machines

SN	Technical Specifications	Specification required by the Embassy of India	Specifications of the machine quoted in the bid
1.	State-of-the-art High Frequency microprocessor controlled Portable Digital X-Ray system with wireless flat panel detector of size 14" x 17" or more having the following features:	Compact, lightweight, easily transportable mobile High Frequency Digital X-Ray unit for bedside x-Ray rays, trauma, Intensive care units, Operation theatres and Radiology department, NICU, and ortho.	
		The unit should have spring-balanced tube stand/ counter-balanced tube stand.	
		The unit must have an effective braking system for parking and transport.	

SN	Technical Specifications	Specification required by the Embassy of India	Specifications of the machine quoted in the bid
		The exposure release switch should be detachable with a cord of sufficient length (at least 3 m).	
2.	The Generator:	Microprocessor controlled high frequency/inverter type of high frequency (100 kHz or more) for constant output.	
		It should have power rating of at least 4 kW or more	
		It should have a digital display of kV and mAs .	
		kV range: 40 kV to 100 kV or more	
		mA range: upto 100 mA or more	
		kV selection: 40 kV to 100 kV, selectable in 1 kV steps	
		mAs selection: 0.1 mAs to 250 mAs	
		It should have over loading protection.	
		It should have APR feature	
3.	X-Ray Tube and Collimator:	Stationary / Rotating anode having focal spot size less than 2 mm	
		Should have 90 degree collimator rotation and tube-head rotation	
		Output of tube should match with that of generator.	
		Light Beam diaphragm/ Double layer Collimator with auto cutoff switch. The light intensity shall be at least 160 Lux at 1 mtr distance from focal spot.	

SN	Technical Specifications	Specification required by the Embassy of India	Specifications of the machine quoted in the bid
4.	Digital interface	Should have large touch screen with intuitive interface with capacity for over 200,000 Artefact free images	
		PACS-ready and DICOM compatible images	
5.	The unit should operate on single phase power supply and should have plug in facility to any standard wall outlet with automatic adaptation to line voltage 200 V to 240 V, 15 Amp plug.		
6.	The Leakage radiation level at 1 meter from the focus should be less than 70 mR. Products having negligible leakage radiation level will be preferred (Please attach relevant test report).		
7.	The Systems should be fully safe with respect to:	Overcurrent	
		Overvoltage	
		Maximum loading of tube	
8.	Power input to be 220-240 VAC, 50 Hz fitted compatible for use in Bhutan		
9.	The product should be CE or US FDA <i>certified</i>		
10.	Should be an AERB approved product		
11.	Accessories required with each x-ray machine:	<i>Films for printer of different sizes (14x17", 12x15", 10x12") – 2 packet (100 films per packet) per unit.</i>	
		Stationary grids of	

SN	Technical Specifications	Specification required by the Embassy of India	Specifications of the machine quoted in the bid
		corresponding cassette sizes (1 unit each)	
		<i>DICOM compatible dry laser camera single/two tray of resolution more than 300 DPI printer.</i>	
		Lead apron (2)	
		Thyroid shield (2)	
		<i>1 extra wireless flat panel detector per unit</i>	
		<i>1 extra rechargeable battery set for flat panel detector per unit</i>	

Head of Chancery
 Embassy of India, Thimphu
 Tel: +975-02-322291
 Email: hoc.thimphu@mea.gov.in

January 07, 2021