



शिवराज नगरपालिका

नगर कार्यपालिकाको कार्यालय

चन्द्राही कपिलवस्तु
लुम्बिनी प्रदेश नेपाल

पत्र संख्या : ०७६/०८०

चलानी नम्बर :

मिति : २०७६.१०.१३०

दररेट पेश गर्ने सम्बन्धी सूचना ।

तपशिल बमोजिमको स्पेसिफिकेशनको आधारमा 100mA X-ray Machine with horizontal table and flat panel detector system के कती दररेटमा उपलब्ध गराउन सकिन्छ ? सम्बन्धित सरोकारवालाहरूले यो सूचना प्रकाशित भएको मितिले ७ दिन भित्र दररेट पेश गर्नुहुन यो सूचना प्रकाशित गरिएको छ ।

Technical Specifications of X-Ray Machine, 100 mA Fixed with Horizontal Table and Flat Panel Detector System

S.N.	Purchaser's Specifications	Bidders Offer
	X-Ray Machine 100 mA Fixed with Horizontal Table & Flat Panel Detector System	
	Manufacturer	
	Brand	
	Type/Model	
	Country of Origin	
1	Description of Function	
1.1	A general X-Ray Machine 100 mA, Fixed with Horizontal Table & Flat Panel Detector System	
2	System Configuration	
2.1	100 mA Fixed X-Ray Machine with Horizontal Table & Flat Panel Detector System with standard accessories	
3	Technical Specifications	
A	X-Ray Machine 100 mA Fixed with Horizontal Table	
	X-Ray System	
3.1	Line Frequency X-Ray system.	
3.2	It should have power rating of 8 kW or more.	
3.3	It should have a digital display of mA, mAs and kV.	
3.4	Radiography KV range should be 40kV to 100 kVp or wider range in steps of 2 kVp.	
3.5	mA range (Rad): upto 100mA	
3.6	mAs selection (Rad): upto 200mAs	
	X-Ray Tube and Collimator:	
3.7	One nos stationary anode X-Ray tube with focal spot size of 2.8 mm ²	
3.8	Should have collimator, manually operated with light beam diaphragm.	
	Control:	
3.9	Machine ON/OFF switch	
3.10	Display: Digital display of mA, mAs and kV for easy parameter settings.	
3.11	Should have anatomical programming more than 155 program options for precise selection of kV and mAs	
3.12	The machine should be equipped with double step exposure switch with long cord.	
3.13	The Systems should be fully safe with	

फोन नं. ०७६-५४०९९८, ०७६-५४०९४७, फ्याक्स नं. ०७६-५४०९९८

Email: info@shivrajmun.gov.np, shivrajmunicipality@gmail.com,

website: <http://shivrajmun.gov.np>



शिवराज नगरपालिका

नगर कार्यपालिकाको कार्यालय

चन्द्राटार, कैलाली जिल्ला, नेपाल

पत्र संख्या : ०७५/०८०

चलानी नम्बर :

मिति : २०७५.१०.३०

	respect to	
	Over current	
	Over Voltage	
	Maximum loading of tube.	
Stand:		
3.14	Floor to ceiling stand with Counter Balanced Tube Head (Rotatable $\pm 180^\circ$) which should be easy to use and have the following specifications:	
3.15	Floor to Ceiling Stand with 360° Axis Rotation	
3.16	For General Radiography X-Rays	
3.17	Column movement can be arrested by Foot-Lock	
3.18	Column Height :2400mm	
3.19	Column Horizontal Travel :1650mm	
3.20	Tube Horizontal Travel :800mm	
3.21	Tube Vertical Travel :1700mm	
3.22	Tube Rotation :360°	
3.23	Table: Horizontal table should be provided with following specifications: Radiolucent Table Top, Phenolic laminated sheet of 0.5 mm Al equivalent Moving Bucky Cassette Tray, Compatible with Cassette size of – 8" x10", 10" X 12", 12" X 15" & 14"X17" with auto centering & Cassette lock	
3.24	Must submit ISO 13485:2003/AC:2007 for Medical Devices for X-Ray System	
3.25	Must Submit CE Certificate for X-Ray System	
3.26	Must Submit BIS and AERB type approval certificate for X-Ray System	
B	Flat Panel Detector System	
	Flat Panel Detector	
3.27	Flat Panel Detector should have Cesium Iodide (CSI) a-Si TFT Scintillator assuring lossless AED (automatic exposure detection)	
3.28	Portable, wireless, at least 14x17 inches size detector	
3.29	Detector should be water proof and water resistance must be grade IP54	
3.30	The Pixel size should be 140 microns.	
3.31	Should have a A/D conversion of 16 bit.	
3.32	Should have resolution of at least 2500 x	

फोन नं. ०७६-५४०९९८, ०७६-५४०९४७, फ्याक्स नं. ०७६-५४०९९८

Email: info@shivrajmun.gov.np, shivrajmunicipality@gmail.com,

website: <http://shivrajmun.gov.np>



शिवराज नगरपालिका

नगर कार्यपालिकाको कार्यालय

चन्द्रौटा, कपिलवस्तु
लुम्बिनी प्रदेश, नेपाल

पत्र संख्या : ०७५/०८०

चलानी नम्बर :

मिति : २०७५.१०.३०



	3000	
3.33	Data communication should be wireless or wired available.	
3.34	Battery backup of at least 3 hours on standby or at least 300 continuous images.	
3.35	Detector should have removable type lithium polymer battery	
3.36	The Detector should be able to withstand surface load of 150 kg.	
3.37	Easy Switch from sleep mode to acquisition mode for better battery performance.	
3.38	The Battery Charger should have facility to charge at least two batteries simultaneously.	
3.39	Software should have DICOM & PACS connectivity and should have at least 100 image storage facilities.	
3.40	The detector should be capable of connecting with the existing system of the Hospital.	
	Image Station	
3.41	Compatible PC: - CPU - Latest model processor, RAM - 8 GB, HDD - 1 TB, latest windows 10 of 64bit.	
3.42	Display Monitor: at least 24" size with resolution of 1920 x 1080 pixels	
	Image Manipulation/Post processing Software:	
3.43	Multi image viewing and printing.	
3.44	Facility of image magnification, cropping and masking of image, distance and angle measurement etc.	
3.45	Measurement tools, zoom and Pan, Brightness and contrast adjustment, horizontal and vertical flip, actual size printing capability for accurate representation of anatomical size.	
3.46	CD/DVD burning facility	
3.47	Should be compatible with DICOM and PACS system.	
	Laser Printer:	
3.48	Printer should have dry Laser image Technology, compatible with DICOM and PACS without loss of information, allowing multiple modalities to be connected at a time.	
3.49	Printing capacity of about 45 sheets/ hour.	
3.50	Film Print Sizes: 14 x 17, 10 x 12, 8 x 10	
3.51	Pixel size of 75 um	

फोन नं. ०७६-५४०११८, ०७६-५४०१४७, फ्याक्स नं. ०७६-५४०११८

Email: info@shivrajmun.gov.np, shivrajmunicipality@gmail.com,

website: <http://shivrajmun.gov.np>



शिवराज नगरपालिका

नगर कार्यपालिकाको कार्यालय

चन्द्रौटा कपिलवस्तु
लुम्बिनी प्रदेश नेपाल
लुम्बिनी प्रदेश

पत्र संख्या : ०७५/०८०

चलानी नम्बर :

मिति : २०७५।०६।३०



3.52	Single Online Tray	
3.53	Daylight film loading	
3.54	Must submit ISO13485 for Medical Devices for Flat Panel Detector System	
3.55	Must submit CE and USFDA approved product certificate for Flat Panel Detector System	
3.56	Shall comply with IEC 60601-1-2 : Medical Electrical Equipment Electromagnetically Compatibility Requirement for Medical Devices.	
4	Accessories, Spare Parts and Consumables	
4.1	Accessories	
	Floor Mounted Chest Bucky Stand	
4.2	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and cleaning and lubrication materials, to be included in the offer. Bidder's must specify the quantity of every item included in their offer (including items not specified above)	
5	Operating Environment	
5.1	The system offered shall be designed to be stored and to operate normally under the conditions of the purchaser's country. The conditions include Power Supply, Climate, Temperature, humidity, etc	
5.2	440Vac, $\pm 10\%$ Three phase, 50/60 Hz for X-Ray System & Power supply: 220-240V AC, 50Hz fitted with appropriate plug type. The power cable must be at least 3 meter in length for Flat Panel Detector System	
6	User Training	
6.1	The Supplier shall conduct user training for this equipment to enable operators to use the equipment properly. The training shall include the use Of all operational functions of the equipment as well as routine checks and maintenance expected by users	
7	Warranty	
7.1	Comprehensive Warranty for 1 Year after acceptance	
8	Maintenance Service During Warranty Period	
8.1	During warranty period supplier must ensure	

फोन नं. ०७६-४४०११८, ०७६-४४०१४७, फ्याक्स नं. ०७६-४४०११८

Email: info@shivrajmun.gov.np, shivrajmunicipality@gmail.com,

website: <http://shivrajmun.gov.np>



शिवराज नगरपालिका
नगर कार्यपालिकाको कार्यालय
चन्द्रौटा, कपिलवस्तु
लुम्बिनी प्रदेश, नेपाल

पत्र संख्या : ०७५/०८०

चलानी नम्बर :

मिति : २०७५।०६।३०



	preventive maintenance breakdown whenever required	
9	Installation & Commissioning	
9.1	The bidder must arrange for the equipment to be installed by certified or qualified personnel; any prerequisites for installation to be communicated to the purchaser's in advance in details	
10	Documentation	
10.1	User(Operating) manual in English	
10.2	Service(Technical/maintenance) Manual in English	

चुडामणि भट्टराई

Er. Sharad Bhandari
Bio Medical Engineer
NEC No. 66 'A'

राकेश पाण्डे
प्रमुख प्रशासकीय अधिकृत