



“दिगो विकास र सम्बूद्ध गौरीगञ्जको आधार : सुशासन सहितको आर्थिक विकास र पूर्वाधार”

## गौरीगञ्ज गाउँपालिका

## **Gauriganj Rural Municipality**

## गाउँ कार्यपालिकाको कार्यालय

## **(Office Of The Rural Municipal Executive)**

## गैरीगञ्ज, झार

## Gauriganj, Jhapa

गैरीगञ्ज, काशी  
कोशी प्रदेश, नेपाल  
२०७३

पत्र संख्या(Ref. No): २०८२/०८३

चलानी नं. (Dispatch No): 68e

## कोशी प्रदेश, नेपाल (Koshi Province, Nepal)

मिति :- २०८२/०९/२२ गते

**विषय :- लागत अनुमान तयार गर्ने प्रयोजनका लागि दररेट पेश गर्ने सम्बन्धमा।**

श्री इजाजत प्राप्त फर्म/सप्लायर्स/ आपूर्तिकर्ताहरु सबै ।

प्रस्तुत विषयमा यस गाउँपालिकाको आ.व. २०८२/०८३ को स्वीकृत वार्षिक कार्यक्रम बमोजिम गाउँ कार्यपालिकाको कार्यालयका लागि आवश्यक स्वास्थ्य उपकरणहरु (X-Ray र USG मेसिन) खरिद गर्नका लागि सार्वजनिक खरिद ऐन, २०६३ को दफा ५ (१) मा भएको व्यवस्था एवं सार्वजनिक खरिद नियमावली, २०६४ (चौधौं संसोधन समेत) को नियम ११ मा भएको व्यवस्था बमोजिम लागत अनुमान तयार गर्नुपर्ने भएको हुँदा उक्त स्वास्थ्य सम्बन्धी आवश्यक उपकरणहरु के कुन दरमा उपलब्ध गराउन सक्कु हुन्छ ? सो को दररेट सूचना प्रकाशन भएको मितिले ७ (सात दिनभित्र) पेश गर्नुहुन अनुरोध छ ।

- उक्त स्वास्थ्य सम्बन्धी उपकरणहरूको Technical Specification यसै पत्र साथ संलग्न रहेकोछ।

साथ संलग्न रहेकोछ।  
Shri B. P. S.  
01/01/22  
खेमराज थापा  
प्रमुख प्रशासकीय अधिकृत  
(ठार्यालयको वैमानिक इटमा अपलोड  
जानुहुन्।)

### क्रोधार्थः-

श्री वृत्त्यना प्रविष्टि शारणा, गोरीगड-ज गाउपालको, कापापा (कापापा)  
गर्नुहुन।)

**Technical Specification For DR X-RAY MACHINE 500 MA**  
**X-Ray Machine (500 mA)**

S. N.	Purchaser's Specifications (Gauriganj rural mun.)/2082/083	Technical Compliance Sheet		
		Yes/No	Page no. in catalog ue	Remarks
	<b>X-Ray Machine (500 mA)</b>			
	<b>Manufacturer</b>			
	<b>Brand</b>			
	<b>Type/Model</b>			
	<b>Country of Origin</b>			
1	<b>Description of Functions</b>			
	A general purpose 500mA X-ray machine with Floor mounted Ceiling Free Stand (CFS), Vertical Bucky Stand and Table			
2	<b>Operational Requirements</b>			
	It must be suitable to be used for adult and pediatric patients in general radiography examination and it shall operate on three phase AC power supply.			
3	<b>System Configurations</b>			
	X-ray Generator, 1 unit			
	X-Ray tube & tube support system, 1 unit			
	Radiographic patient table, 1unit			
	Vertical bucky stand, 1 unit			
4	<b>Technical Specifications</b>			
	<b>X-ray Generator:</b>			
	It should be microprocessor based with <b>high frequency generator</b>			
	Output Power: at least <b>40 kW (500mA)</b> .			
	Output Radiographic Voltage: <b>40 kV to 125kV</b>			
	<b>Control Panel</b>			
	It should have <b>digital display of mA, kV and mAs</b>			
	It should have minimum 2-point exposure technique (KV / MAS)			
	Shall <b>display various x ray status, error, etc.</b>			
	Shall come with radiography hand switch in control room			
	<b>Anatomical preprogrammed (with at least 200 programs)</b> parameters of various anatomical positions should be available to select exposure parameters			
	A two-step hand switch with dual action for exposure release with retractable cord should be provided for taking images from a safer distance.			
	<b>X-Ray Tube:</b>			
	<b>Max. Exposure voltage: 125KV .</b>			
	<b>Max. Exposure current: 500mA.</b>			
	It should have dual focal spot with focal spot of approximately 1mm and 2 mm.			
	<b>Anode heat capacity should be at least 140 KHU</b>			
	<b>Floor Mounted Tube Stand :</b>			
	It should be floor mounted ceiling free tube stand. It should be mounted on 2 railings on the floor			

	Must have electromagnetic braking/locking system.		
	<u>Radiography Patient Table:</u>		
	It shall be <b>radio translucent 4-way movement floating table</b> i.e., movement possible along the x axis and y axis. Load capacity: at least 180kg.		
	The Table should consist of motorized reciprocating bucky with Grid. Grid Size: approx. 17 1/4" x 18 7/8" Grid Ratio: approx. 8:1 or 10:1 Grid LPI: at least 85 lines/inch		
	The Bucky should be locked at any desired length position by an Electromagnetic brake/lock.		
	The tabletop should be made of low radiation absorption as well as water proof material.		
	It should be able to accept all the cassette size up to 14"x17" or better.		
	Various table accessories such as SS cassette tray, etc. must be provided with the system.		
	<u>Floor Mounted Bulky Stand:</u>		
	It should be floor mounted vertical bucky stand with oscillating Grid and SS cassette with following parameters: Grid Ratio: approx. 8:1 or 10:1 Grid LPI: at least 85 lines/inch		
	The Bucky must have smooth up & down movement.		
	It should be able to accept all the cassette size up to 14"x17" or better.		
5	Accessories, Spare Parts and Consumables		
	Must be provided with following accessories: <input type="checkbox"/> Lead Apron coat type with at least 0.25mm lead: 2 Nos. <input type="checkbox"/> Thyroid shield: 2 Nos. <input type="checkbox"/> Children gonad shield: 1 set <input type="checkbox"/> Fuse: 2 pc extra <input type="checkbox"/> Halogen lamp: 2 pc extra		
	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).		
6	Operating Environment		
	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.		
	Power supply: 380-415 VAC 3 phase 50Hz fitted with appropriate plug for X-ray generator fitted with appropriate plug		
7	Standards & Safety Requirements		

	Must submit ISO 13485:2003/AC: 2007 <b>AND</b>		
	Must submit <b>CE (93/42 EEC Directives)</b> certified. AND USFDA approved product certificate.		
8	<b>User Training</b>		
	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.		
9	<b>Warranty</b>		
	<b>Comprehensive warranty for 2 years with 1 year of additional service warranty</b> from acceptance.		
10	<b>Maintenance Service During Warranty Period</b>		
	<b>During warranty period supplier must ensure preventive maintenance &amp; corrective/breakdown maintenance whenever required.</b>		
11	<b>Installation and Commissioning</b>		
	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 in advance, in detail.		
12	<b>Documentation</b>		
	User (Operating) manual in English.		
	Service (Technical / Maintenance) manual in English.		
	<b>Must submit valid Manufacturer Authorization letter</b>		

  
 Bio-Medical Engineer  
 NEC No. 365 "A"



Technical Specification For DR X-RAY MACHINE 500 MA

Digital Radiography (DR) Flat panel detector System

S. N.	Purchaser's Specifications (Gauriganj rural mun.)/2082/083	Technical Compliance Sheet	
		Yes/No	Page no. in catalog ue
	<b>Digital Radiography (DR) Flat panel detector System</b>		
	<b>Manufacturer</b>		
	<b>Brand</b>		
	<b>Type/Model</b>		
	<b>Country of Origin</b>		
1	<b>Operational Requirements</b>		
	Flat Panel digital detector with work station should be provided. It shall be suitable for adult and pediatric patients in general radiography examination.		
	The flat panel detector should be wired and/or Wireless both.		
	DR Workstations with fully integrated console for image acquisition, processing, viewing and archiving. Maintain and manage data bank of all patient and image data. Retrieve and reproduce accurate, high quality high resolution images from stored data without loss of image quality.		
2	<b>System Configurations</b>		
	<b>Detector:01</b>		
	<b>Imaging Workstation:01</b>		
	<b>Dry imaging printer : Double tray (film based):01</b>		
	<b>Online UPS for atleast 30 minutes system backup</b>		
3	<b>Technical Specifications</b>		
	<b>Flat Panel Detector:</b>		
	Flat Panel digital detector with work station should be provided. It shall be suitable for adult and pediatric patients in general radiography examination.		
	The Flat Panel should be a Retrofit Solution and capable to work with any of the X-Ray available in Department.		
	Detector Panel shall be made of amorphous Silicon with CsI or similar modern technology detector		
	Automatic Exposure Detection to any X-ray Generator without wire connection.		
	Image Matrix Size Approx.2.2K x2.2K Pixel or more		
	<b>Flat Panel Detector Size of at least 35X43 cm</b>		
	The detector should be light weight (approx. 4 Kgs) including battery		
	<b>Spatial resolution of 3.3 LP/mm or better.</b>		
	<b>The Pixel size : 150<math>\mu</math> or lesser</b>		
	Should have a minimum image depth of 16 bit.		
	<b>Preview time after exposure 5 sec or less.</b>		
	<b>Battery Backup: Minimum 5 Hours or more.</b>		
	Data Communication should be Wireless and/or Wired.		
	Surface Load Capacity: 150 Kg or more		
	Water Resistance: IPXn or equivalent		
	The Detector should have replaceable Lithium Ion battery.		
4	<b>Imaging Workstation:</b>		
	Workstation shall have core i5/i7 with high speed processor, latest operating system, Latest model processor, RAM – 4GB, HDD – 500GB, latest windows 10 32/64bit. Display Monitor: at least 20" size		

	Operating console must have STANDARD Image Manipulation/Post Processing Software facility for patient identity entry, viewing and processing images, documentation.			
	DICOM work list, DICOM Print, DICOM Storage should be available			
5	<b>Imaging Printer (film based):</b> The system must have at least <b>two online film sizes</b> , and should be capable to print on any of the 8" x 10", 10" x 12", 14" x 17" sizes. All two film input trays should be freely configurable at user level for all the mentioned film sizes.			
	Printer should have <b>dry image Technology, compatible with DICOM and PACS</b> without loss of information, allowing multiple modalities to be connected at a time.			
	<b>Throughput: 60 films or more</b>			
	DICOM Compatible			
	<b>Resolution &gt; 500 DPI.</b>			
	Multiple Image and slide printing capability.			
	Contrast: 14-bit contrast resolution or more.			
	Printer should be compatible for different systems			
6	<b>Accessories, Spare Parts and Consumables</b>			
	All standard accessories, consumables and parts required to operate the equipment, including all standard tools and Extra batteries for detector with Charger, to be included in the offer. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
	Online UPS for atleast 30 minutes system backup			
7	<b>Operating Environment</b>			
	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.			
	Power supply: 380-415VAC 3 phase 50Hz fitted with appropriate plug for X-ray generator and 220 – 240 VAC, Single phase 50 Hz, fitted with appropriate plug for other units.			
8	<b>Standards &amp; Safety Requirements</b>			
	Must submit ISO 13485:2003			
	Must submit CE (93/42 EEC Directives) and USFDA approved product certificate For Detector. CE and/or USFDA certificates for imager.			
	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. Bidders must specify the quantity of every item included in their offer (including items not specified above).			
9	<b>User Training</b>			
	Must provide user training (including how to use and maintain the equipment).			
10	<b>Warranty</b>			
	<b>Comprehensive warranty for 2 years with additional 1 year service warranty.</b>			
	The bidder must perform PPM every 6 months during the warranty period.			
11	<b>Maintenance Service During Warranty Period</b>			
	<b>During warranty period supplier must ensure preventive maintenance &amp; corrective/breakdown maintenance whenever required.</b>			
	<b>Manufacturer shall commit the availability of spare parts and consumables and accessories for at least 5 years.</b>			

12	<b>Installation and Commissioning</b>			
	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 in Advance, in detail. Must provide 1 pacs of film free of cost.			
13	<b>Documentation</b>			
	User (Operating) manual in English.			
	<b>Manufacturer Authorization letter for detector and imager</b>			
	Service (Technical / Maintenance) manual in English.			

  
 Dr. Medical Engineer  
 NEC No. 365 "A"

