TECHINICAL SPECIFICATION FOR X-RAY 500 MA

3. 11	. Purchaser's Specifications(for kankai mun)	Bidder's Compliance Sheeet			
	X-ray,500ma	Yes/No	Page No. in Catalogue	Remarks	
	Manufacturer		Catalogue		
	Brand				
	Type/Model				
	Country of Origin				
	Description of Functions				
1.1	A general purpose X-ray machine for routine X-ray examinations at healthcare facilities.				
2	Operational Requirements				
2.1	It shall be suitable to be used for adult and paediatric patients in general Radiography examination.				
3	System Configurations		1		
3.1	X-ray Generator,1 unit		1		
3.2	X-Ray tube & tube support system, 1 unit				
3.3	Radiographic patient table, 1unit		1		
3.4	Floor mounted bucky stand, 1 unit				
4	Technical Specifications				
	X-ray Generator:				
I	Bidder shall indicate brand and model information here and provide technical data document for X-ray generator offered				
4.1	Microprocessor based, high frequency inverter generator, the generator shall have at least 50kHz.				
4.2	Generator Output: not less than 50 kW (500mA at 100kV)				
4.3	Radiographic voltage: 40 kV to 150kV, in 1kV step.				
4.4	Radiographic current: 10 to 500mA		-		
4.5	Exposure time: 0.001sec (1msec) - 10sec				
4.6	Anatomical Programmable Radiographic mode shall be available.				
4.7	Manual & automatic exposure control and automatic brightness control shall be available.				
4.8	Shall come with overload protection device.				
4.9	Power supply: 3 phase, 380-415V 50/60Hz				
	X-Ray Tube:				
4.1	X-ray tube rotating: +/-120°.				
.11	Large focus not more than 1.2 mm.				
	Small focus not more than 0.6 mm.				
	Maximum tube voltage 150 KV. Maximum tube output shall match with the generator				
.13	output of not less than 50 KW.				
	Filtration: min 2.5mm Al equivalent.				
	Cooling method passive or forced air and/or oil cooling.				

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4.16 Anode rotating speed: More than 3000 rpm. 4.17 Anode heat capacity shall not be less than 300 KHU. 1.18 Radiography Patient Table: 1.19 Radiography Patient Table: 1.19 Come with grid and cassette tray, with grid ratio not less than 10:1. Grid line number: 4.19 Come with grid and cassette tray, with grid ratio not less than 10:1. Grid line number: 4.10 Come with grid and cassette tray, with grid ratio not less than 10:1. Grid line number: 4.10 Come with grid and cassette tray, with grid ratio not less than 10:1. Grid line number: 4.11 Radiography table shall be fixed height of about 60cm. 4.12 Table top transverse movement: approx. 4:14cm. 4.13 Table long film distance: approx. 6:m. 4.14 Table longlindini movement: approx. 4:14cm. 4.15 Shall come with a three-field AEC. 4.16 Shall come with a three-field AEC. 4.17 Table movement arrested by electromagnetic brakes. 1.17 Floor Mounted Bucky Stand: 4.18 Shall come with Automatic Exposure Control for vertical bucky exposures. 4.19 Working Grid with Grid ratio not less than 10:1. Grid line number: 40 lines/cm. 4.10 Shall come with Automatic Exposure Control for vertical bucky exposures. 4.11 Cassette size: accept all sizes from 5°XT" to 14°X1T". 4.12 Movement arrested by electromagnetic brakes. 4.13 Longitudinal travel: approx. 1750mm. 4.14 Ortical ravel: from 460-1150mm or in the range. 4.15 Movement arrested by electromagnetic brakes. 4.16 Floor Mounted Tube Stand: 4.17 International travel: approx. 1750mm or in the range. 4.18 Manually adjustable. 4.19 Light International travel approx. 1750mm or in the range. 4.19 Light International travel approx. 1750mm or in the range. 4.10 Light International travel approx. 1750mm or in the range. 4.11 Control Console: 4.12 Halegen lamp. 4.13 International travel approx. 1750mm or in the range. 4.14 Halegen lamp. 4.15 Mountain approx. 250mm or in the range. 4.16 Shall have are as does product determination and display. 4.17 International standard tools and cleaning and lubrication mate	S. N. Purchaser's Specifications(Purchaser's Specifications(for kankai mun)		Bidder's Compliance Sheeet		
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Shall meet:	CE (93/42 EEC Directives) or AER	B OR USFDA approved product certificate.				
	Shall meet:	,				



5. N.	Purchaser's Specifications(for kankai mun)	Bidder's Compliance Shee	Sheeet	
	X-ray,500ma	Yes/No	Page No. in Catalogue	Remarks
7.3	 IEC 60601-1-3 - Part 1: General Requirements for safety - Collateral Standard: General Requirements for Radiation Protection in Diagnostic X- Ray Equipment. 		Catalogue	
	 IEC 60601-2-7 - Part 2-7: Particular Requirements for the Safety of High- Voltage Generators of Diagnostic X-Ray Generators. 			
8	User Training			
8.1	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.			
9	Warranty			
9.1	Comprehensive warranty for 2 years from acceptance.			
10	Maintenance Service During Warranty Period			
10.1	During warranty period supplier must ensure preventive maintenance & corrective/breakdown maintenance whenever required.			
11	Installation and Commissioning			
11.1	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 in advance, in detail.			
12	Documentation			
	User (Operating) manual in English.			
12.2	Service (Technical / Maintenance) manual in English.			
12.3	List of important spare parts and accessories with their part numbers and costing.			
12.4	Certificate of calibration and inspection from factory.			

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TECHINICAL SPECIFICATION FOR USG, PORTABLE, COLOUR DOPPLER

N.	Purchaser's Specifications(for landat mun)	Bidder's Compliance Sheest		
	DNG Portable Colour Doppler	Veultin	Page No. in	Kemark
1	Manufacturer	y an har militar Madurilla	1 - attatogas 1	
1	Brand			
i	Type/Model	CONTROL PURSUING	T t	
(Country of Origin		1	-
1	Description of Functions	-		
	A general purpose notebook-type colour Doppler ultrasound imaging system.	Name of the last o	-	
2	Operational Requirements			
	It shall operate on AC power supply as well as built in rechargeable battery. The machine is intended to be carried to the field or the patient ward with the inbuilt battery system to examine patients who could not come to USG room.			
	System Configurations			
٨	Portable colour Doppler ultrasound imaging system, Tunit.			
13	Lunit of broad bandwidth of 2 - 6MHz, convex array probe for OB/GYN and abdominal application.			
C	I unit of broad bandwidth of 4 - I6MHz , Linear array probe for Vascular Ł Small Parts application,			
	1 unit of Black & White thermal printer.			
4	Technical Specifications			
	Main unit:			
	The system must be latest generation technologically advanced Digital Portable Color Doppler system, with physical alphanumeric and Backlit keyboard, with mobile trolley for friendly use.			
	System must be offered with a very high dynamic range of at least 200 db to pick up subtle echoes. Dynamic range in Db must be clearly mentioned in the technical quote. System offered less than specified with not be considered.			
	System must be offered with a minimum 15 inch High Resolution Medical grade monitor. And monitor itself can be swiveled independently at least 20 degree.			
D	System should have at least 2 active universal probe ports, and third probe port should be optional, and probe adaptor not preferred.			
	Operating modes B-mode, M-mode, B/M Mode, Doppler Mode, Color flow, Power Doppler, B/Color flow, PW Doppler, Directional PDI, CW and TDI mode.			
F	System should support broad band probes spanning a frequency of 1-16 MHZ.			
	In-built hard disk with minimum capacity of 128 GB. And built-in battery should support at least 90 minutes of scanning.			
н	System must be offered with Speckle Reduction imaging: Image processing technique to remove speckle and clutter artifacts.			
	System should have facility of DICOM, at least 2 USB ports.			
	System should be capable of scanning depth of at least 30cms. Scanning Depth			
	should be clearly mentioned in the technical quote. If not mentioned please attach			
1/2	letter from manufacturer along with the technical bid clearly stating the			
	scanning depth in the offered system.			
1 5	System must be offered with 8 TGC slide pot with independently adjustable Gain			
K	control.			
LF	Real time flow volume analysis should be available.			
7	The system should have all measurement packages: Abdominal, OB, GYN,			
	Cardiology, Vascular etc.			
	system should have Digital zoom facility for region of interest.			
OS	ystem should have Trapezoid Imaging, Spatial Compound Imaging, B steer.			
	ystem should support Auto IMT an Auto Trace.			
7	The system should have one button image optimization for 2D, Color and			
()	oppler.			

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	Bidder's Compliance Sheeet			
G Portable Colour Doppler	Yes/No	Page No. in Catalogue	Remarks	
system should have Gain of 1~255 adjustable.				
system should have quick measurement, which can be defined & select by button.				
system should have user define keys for friendly operation.				
cessories, Spare Parts and Consumables				
standard accessories/consumables/parts (including 2 x 5Ltr. Jar of ultrasound) required for the proper operation of the above item shall be included in the er.				
standard items specified in system configuration must be included in the				
erating Environment				
wer supply: 220 – 240 VAC, 50Hz fitted with appropriate plug.				
ndards & Safety Requirements				
st submit ISO13485:2003/AC:2007 for Medical Devices AND				
(93/42 EEC Directives) and USFDA approved product certificate.				
ctrical safety conforms to standards for Electrical Safety IEC 60601-2-37 dical electrical equipment – Part 2-37: Particular requirements for the basic ety and essential performance of ultrasonic medical diagnostic and monitoring ipment.				
r/Technician Training				
Supplier shall conduct user/technician training for this equipment to enable rators to use the equipment properly. The training shall include the use of all rational functions of the equipment, as well as routine checks and intenance expected by users.				
rranty				
apprehensive warranty for 2 years after acceptance.				
intenance Service During Warranty Period				
ing the warranty period supplier must ensure preventive maintenance and ective/breakdown maintenance whenever required.				
allation and Commissioning				
plier must accomplish proper installation & commissioning of equipment te.				
umentation		-		
r (Operating) manual in English.				
rice (Technical / Maintenance) manual in English.				
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Note:

Bidder must completely fill the Technical Specification Form (TSF).

Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted.

Failure in doing so may lead to rejection of bid from technical committee.

Prepared By:

Approved by:

Er. Kushal Daha! NEC: Biomedical "A" 254

Techinical Specification for Flat Panel Detector System

S.N. Purchaser's Specifications(KANKAI MUN)		Bidder's Compliance Sheeet		
Flat Panel Detector System	Yes/No	Page No. in Catalogue	Remark	
The system must have at least two online film sizes, and should be capable to				
print on any of the 8" x 10", 10" x 12", 14" x 14", 14" x 17" sizes. All two film				
input trays should be freely configurable at user level for all the mentioned film				
sizes.				
g System should be CE and USFDA approved.				
h Dry film should be not damage while processing in open day light.				
5 Accessories and spare parts and consumables				
a Online UPS with minimum backup of 30 minute for Flat Pannel, Workstation & Imager Units.				
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).				
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.				
7 User/Technician Training:				
Must provide user training (including how to use and maintain the equipment).				
8 Warranty:				
a Comprehensive warranty for 2 years after acceptance.				
During the warranty period supplier must ensure planned preventive maintenance				
b (PPM) in at least every six month along with Corrective/breakdown maintenance				
whenever required.				
9 Installation and Commissioning:				
The bidder must arrange for the equipment to be installed and commissioned by				
certified or qualified personnel; any prerequisites for installation to be				
communicated to the purchaser in advance, in detail.				
Documentation:				
a User (Operating) manual in English.				
b Service (Technical/ Maintenance) manual in English.				
c List of important spare parts and accessories with their parts.				

Note:

Bidder must completely fill the Technical Specification Form (TSF).

Page number in the catalogue of all the required parameters must be clearly mentioned and highlighted.

Failure in doing so may lead to rejection of bid from technical committee.

Prepared By:

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Er. Kushal Daha!

NEC: Biomedical "A" 254

Approved by: