E-TENDER NOTICE FOR procurement and installation of X-Ray Units of 300 MA & 600 MA required at GGS Medical College & Hospital, Faridkot.

E-Tender Form

(E-Tender enquiry for Supply and Installation of X-ray Units of 300mA & 600 mA at GGS Medical College & Hospital, Faridkot.

Tender Notification No:	To be provided by the E-procurement portal of the Govt. of Punjab.
Tender Notification Date:	20/12/2018
Requirement	E-Tender notice for supply and Installation of 300 mA & 600 mA X-ray Units
Cost of the tender document:-	Rs.2000/- (Non-refundable) to be deposited through Online Mode Only in favor
	of Registrar, Baba Farid University of Health Sciences, Faridkot.
Tender Processing Fee	To be charged by Govt. of Punjab as per its norms. (Non- refundable)
Earnest Money Deposit (EMD)	As mentioned. The Earnest Money Deposit must be submitted in the
	shape of Online Payment in favor of Registrar, Baba Farid University of
	Health Sciences, faridkot on or before due date (Refundable to the Non-
	successful bidders, without any type of interest or other charges).
	However, it will be converted into Performance security in case of
	successful tenderer and will be returned after successful completion of
	the contract period.
Date of start of downloading of tender	20.12.2018 from the website of the Punjab Government i.e.
documents	https://eproc.punjab.gov.in
Website for downloading of the	https://eproc.punjab.gov.in However, the details may also be obtained
tender document:-	from the University website i.e. www.bfuhs.ac.in and college website
	www.ggsmch.org
Last date for downloading of the	11.01.2019 up to 12.30 pm
tender document:-	
Last date & time for uploading of the	11.01.2019 up to 1.30 pm (through online mode only)
tender documents:-	
Date, time and venue for opening of	By the next day from the last date of submission of tenders (by 5:00 p.m.) on
the Technical Bids	the e- procurement portal of the Govt. of Punjab in , Baba Farid University of
Data time and years for anoning of	Health Sciences, Faridkot 18.01.2019 on the e- procurement portal of the Govt. of Punjab in UPFD, Baba
Date, time and venue for opening of the Price Bids	Farid University of Health Sciences, Faridkot
Who can be contacted for obtaining	Prof.Incharge Procurement
more information about the tender.	Baba Farid University of Health Sciences,
more information about the telluci.	Sadiq Road, Faridkot.
	01639-250150, 97800-08686,88472-19897,
	E-mail: upfdbfuhs@gmail.com
	(on all working days from 9.00 a.m. to 5.00 p.m.)

E-TENDER NOTICE FOR procurement and installation of X-Ray Units of 300 MA & 600 MA required at GGS Medical College & Hospital, Faridkot.

NOTICE INVITING E-TENDER

E-Tenders are invited on or before 11.01.2019 from manufacturers or their authorized agents/distributors for supply and Installation of X-ray Units of 300mA and 600 mA required at GGS Medical College & Hospital, Faridkot. The tender document containing detailed terms & conditions may be downloaded from the E-procurement website of the Punjab Government i.e. https://eproc.punjab.gov.in and its detail may also be seen at the University website www.bfuhs.ac.in and college website www.ggsmch.org

TERMS AND CONDITIONS:-

- 1. The tender must be uploaded on or before the last date/ time of the submission of tender.
- 2. The Tender processing fee should be submitted through Net Banking/Credit card/Online mode only and as per Punjab Govt.
- 3. The <u>tenders will be opened online</u> by the next day from the last date of submission of tenders (by 5:00 p.m.) on the website i.e. https://eproc.punjab.gov.in at the, Baba Farid University of Health Sciences, Faridkot. The bidder(s) shall be at liberty to be present, in person or through their authorized representative(s) at the time of opening of the tender as specified in the Tender Notice. In case the authorized representatives are to be present, they must furnish the authority letter from the bidder (s), on whose behalf they are representing otherwise they will not be allowed to participate in the process of opening of tender.
- 4. The Price bids of technically qualified bidders will be opened on 18.01.2019 at 2.30 p.m. on the website i.e. https://eproc.punjab.gov.in at, Baba Farid University of Health Sciences, Faridkot. In case of any change of date and time it will be notified to the technically qualified bidders through E-mail/telephone.
- 5. The Registrar/Principal reserves all rights to accept or reject any or all the tenders without assigning any reason.

Registrar

E-TENDER NOTICE FOR procurement and installation of X-Ray Units of 300 MA & 600 MA required at GGS Medical College & Hospital, Faridkot.

INSTRUCTIONS/ GUIDELINES TO THE TENDERERS

- 1. The bidder needs to register himself/ herself on https://eproc.punjab.gov.in the bidder is also required to obtain Class III digital signature certificates to complete this process.
- 2. Please download the Tender document from the website of e-procurement of the Govt. of Punjab https://eproc.punjab.gov.in Please fill all the relevant blanks on all the pages of the tender document sign along with a stamp/ seal all pages and then a scanned copy of the same may be uploaded on the website at the time of submission of the tender document.
- 3. <u>It should be clearly noted that this tender will be accepted though e-tender mode only.</u> The tenders submitted through offline mode will not be accepted under any circumstances.
- 4. **Tender Fee:** as per Govt. and should be deposited through online mode only
- 5. **Tender Processing Fee:** as per Punjab Govt. (non-refundable) may be deposited through online mode i.e. Net Banking/ Credit Card/ Debit Card only. The tender processing fee will not be accepted through any other mode.
- 6. **Refundable Earnest Money Deposit (EMD): As mentioned** to be deposited online mode only in favor of Registrar Baba Farid University of Health Sciences, Faridkot.
- 7. <u>Upload</u> signed copy of Technical Bid Compliance Statement (Annexure-I).
- 8. <u>Upload</u> an affidavit regarding Non-Black listing as per proforma given at **Annexure-II** duly attested by an Executive Magistrate or a Notary Public.
- 9. In case the Bidder is Authorized Supplier/Agency, the Authorization Certificate as per the Format given at **Annexure-'III'** (duly filled in), **to be uploaded**.
- 10. In case the Bidder is Authorized Supplier/Agency, an undertaking/certificate issued by their Principal Manufacturer/Supplier that in case dealership/distributorship is withdrawn after supply of the Instruments then the Principal Manufacturer/Supplier will be responsible for Guarantee/Warranty/AMC/CMC of the Equipments/Instruments. (Annexure 'IV'), to be uploaded.
- 11. **Upload** details of Bank Account for refund of EMD (Annexure V).
- 12. In addition to this, following **documents are to be uploaded** with Technical Bid:
 - i) Details of registration as Company /Firm/ Establishment.
 - ii) The system must have valid AERB Type approval, AERB certificate must enclosed with Bid.
 - iii) Copy of Certificate of Registration for service Tax/TIN/TAN/PAN/VAT.
 - iv) A certificate from C.A. regarding Annual Turnover with Balance Sheet for the last 3 (three) financial years i.e. 2015-16, 2016-17 & 2017-18.
 - v) Copy of the IT Returns for three financial years i.e. 2015-16, 2016-17 & 2017-18.
- 13. Price should be quoted and <u>uploaded</u> only in Excel Sheet proforma at Annexure-'VI'.

E-TENDER NOTICE FOR procurement and installation of X-Ray Units of 300 MA & 600 MA required at GGS Medical College & Hospital, Faridkot.

LIST OF EQUIPMENTS

Sr.	Name of Equipment	Approx. Qty. Reqd.	Earnest Money to be Submitted (in Rs.)
1.	X-ray Unit of 300 mA	01 pc	25000.00
2.	X-ray Unit of 600 mA	01 pc	30000.00

Note: - Quantity may increase or decrease

 $Bidder\ must\ quote\ guarantee\ /\ warranty,\ make\ /\ brand\ of\ goods,\ projected\ delivery\ and\ installation\ time\ of\ goods.$

E-TENDER NOTICE FOR procurement and installation of X-Ray Units of 300 MA & 600 MA required at GGS Medical College & Hospital, Faridkot.

TECHNICAL SPECIFICATIONS

FOR 300 mA X-RAY MACHINE:

High-Frequency (40 KHz or more) 300mA X-Ray Machine for various radiographic examinations.

1. **X-Ray Generator**: high frequency X-Ray generator for general radiography.

Frequency of Generator: 40 KHz or more

Power Output: 30 KW or more KV Range: 40 to 110 KVP or more

mA: 300 mA or more

MAs Range: upto 200 mAs or more

2. **Control**: Attractive and ergonomically designed control panel with total soft feather touch switches for various operation having following functions & indications.

Machine ON/OFF switch, LCD display of parameters like KV, mAs, APR value etc.

KV, mA & mAs increase and decrease switches.

Tube focal spot selection switch

Ready and Exposure switch with indicators.

Bucky selection switch, Line voltage indicator.

Error display for Voltage, Earth fault, KVp, filament, Termal overload, Rotor.

Anatomical programming with pre-programmed functions in which automatic selection of factors is done

according to the body part selection.

Dual action hand switch with retractable cord for operator.

3. X-Ray Tube:

A rotating anode X-Ray tube with dual focal spot (small: 1.0mm² or better, large 2.0mm² or better) Good anode Heat Storage Capacity of 100 KHU or better

4.H.V. Tank:

A very compact H.V. tank filled with high dielectric transformer oil. The H.V. tank contains H V

transformer, filament transformer, H.V. rectifiers and H.V. cable receptacles.

5. H.V. Cable:

One pair of H.V. cable compatible with the X-Ray tube.

6. Collimator:

Double slot collimator for full field illumination and adjustment of exposure area.

7. Tube Stand:

Floor to ceiling stand and with counter balanced tube head (rotatable=180°) 360° rotatable: mounted on floor ceiling rails for convenient movements. It should have all necessary locks. The column should be light in weight.

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8. Table:

Multiposition (5 Position), Hand Operated including Trendelenberg position. Sectional rail to accept accessories, accepts cones. Motorized reciprocating bucky with grid ratio of 8:1, ~100 lines/inch.

9. Voltage Stabilizer:

Suitable servo stabilizer is provided with the system to compensate the voltage fluctuations on line.

10. Power Supply:

3 phase 440 volts AC 50 Hz with line resistance <0.4 ohm line regulation ±10% with independent earthing.

11. Approvals and Certifications:

The system must have valid AERB Type approval, AERB certificate must enclosed with Bid.

12. High quality wall mounted hanger for lead apron & Chest stand. 1pc lead glass, 80 cm x 60 cm, with lead equivalence of at least 1.5 mm lead, to be installed into concrete barrier.

FOR 600 mA X-RAY MACHINE:

- 50 KW System
- High frequency Radiography X-ray.
- It is a general-purpose radiographic system with high frequency generator and integrated table, providing you with the latest technology and image quality with a small footprint.
- High frequency (HF) technology enables reduction in exposure resulting in reduced dose and reduction of soft x-rays. This increases accuracy of exposure as per the set parameters, delivering power, reliability and excellent image quality, while reducing patient dose and requiring minimum space.
- It is a freestanding system with minimum room preparation time. No ceiling support allows it to fit in almost any room configuration. Large travel range of tube, wide range of tube rotation, large patient coverage of table allows to meet all of your clinical requirements. Standard icons and user friendly interface provides the easiest way of using the system.

Technology features:

- Second generation HF power converter
- Compact size cabinet
- Micro controller technology for precise metering of X-ray techniques
- In-built protection against input voltage out of range, HV arcs
- Self-diagnosis & error logging intelligence for added service ability

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- Self-calibration & intelligence enabled Real time tracking of filament current to ensure mA accuracy
- Low boot up time (Ready for X-rays in less than 20s)
- Last technique parameter's re-call
- Auto-tracking with mechanical linkage between the tube stand and the table cassette tray
- Auto-centering cassette tray makes it easy to load the cassette.

Generator Specifications:

Normal output power: 50 KW
 mA range: 10mA to 630mA
 mAs range: 0.5mAs to 630mAs

KVp range: 40kV to 150kV in 1kV increments

Exposure time range: 1ms to 6300msExposure accuracy: Plus/minus 5%

Console:

The console is designed for maximum productivity with a simple user-interface, touch sensitive input and LCD display for output. There is also an audible confirmation of each entry.

Designed with the technologist in mind. It is pedestal mounted, ergonomically designed, highly institutive and user friendly.

The operator console is designed for ease of operation with features which include:

- Power on and off
- KVp selection in1 and 10KVP steps
- mA selection
- mAs selection
- 2 & 3 point selection
- Small or large focus
- APR display
- AEC and density selection (Automatic Exposer Control)
- Save of settings
- Recall of set parameters
- Patient size selection
- Error information
- Console power-on self-diagnosis

The anatomical programmer (APR) enables easy storage and recall of baseline parameters which include:

- Morphology- Small, medium and large patient
- Body anatomy like chest, abdomen etc 10 choices View- PA, LAT, and oblique

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• Technique parameters- kV, mA, mAs

Utilizing the manual mode, the operator has the flexibility to select the parameters required and adjust KVP, mA and mAs (3-point mode) for constant load exposure or only KVP and mAs (2 – point mode)

Toshiba tube:

Shockproof housing is to minimize leakage radiation. Housing filled with insulating oil specially formulated to meet the requirements of high-voltage X-Rays.

Specially processed Rhenium-tungsten faced molybdenum target minimizes surface distortion for consistent image quality, and provides increased radiation output. Special treatment of inner surface of glass envelope improves high-voltage stability for consistent techniques

High thermal emittance oxide coating on anode and rotor provides high anode heat dissipation rate for improved loading, cooler bearings, and increased tube life

- Rotating anode, dual focal spots (0.6mm, 1.2mm)
- Voltage: 40-150 kV
- Anode heat storage capacity is 111 kJ (150 KHU)
- Housing heat storage capacity is 900 kJ (1250 KHU)
- Max anode heat dissipation rate: 40,020 HU/min (475 Watts)
- Max housing heat dissipation rate: 15,000 HU/min (180 Watts)
- Anode rotation speed is 3200 RPM @ 60 Hz / 2700 RPM @ 50 Hz

Floating table:

Integrated tube-stand support rails (2300mm length x 370mm height) that are combined with table frame.

- 70cm approx height above floor
- Front pedals with Electro-Magnetic breaks to lock and release the tabletop
- Tabletop to Film Distance (OID) = 55 mm
- Bucky takes all standard cassette sizes from 8" x 10" to 17" x 17"
- Table top dimension: 210 x 85 cm
- Plus/minus 42.5 cm longitudinal movement, plus/minus11 cm lateral movement
- Maximum tabletop filtration: less than 0.7mm @ 100kV Al equivalent
- Patient weight bearing capacity is 180 Kgs

Tube stand / Column:

Auto-tracking with mechanical linkage between the tube stand and the table cassette tray.

- Tube stand with rotation +/-180 deg for wheelchair / stretcher exams
- Tube rotation (+/-) 120 deg locked at any angle

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- Tube tilt -30 deg to +20 deg
- Max SID on table is 110 cms
- Longitudinal motion of column: 171 cms

Input power specifications:

- Input voltage: 342~528Vac three phase, 50/60Hz
- Source impedance tolerance: 10%

Safety standards:

AERB Type Approved

IEC 601-2-7 safety rules for X-ray generators.

Wallstand

This wall stand can be used along with high frequency Radiography X-ray for all chest/spine/lower extremity standing examinations with bucky and grid.

- Mechanical lock for carriage
- can be locked (any position)
- Cassette tray housing assembly with fixed grid and ion chamber
- Column Maximum Height 2060 mm

Bucky takes all standard cassette sizes from 8" x 10" to 17" x 17" ●

78LP 100cm Fixed Table Grid (CR compatible)

Five year comprehensive onsite warranty of entire system (Spares and labour) including X-ray tube. Quote CMC rates for next five years after warranty period.

95% uptime guarantee should be given. In case down time exceeds 5%, penalty in the form of extended warrantee, double the number of days for which the equipment goes out of service, will be applied.

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TERMS AND CONDITIONS

FOR SUPPLY AND INSTALLATION of X-ray Units of 300 mA and 600 mA REQUIRED AT GGS MEDICAL COLLEGE & HOSPITAL, FARIDKOT.

ELIGIBILITY

- The sole manufacturers of equipments or their authorized agents/distributors may quote their rates.
- In case of Authorized Supplier/Agency/Distributor, the Authorization Certificate as per the Format given at **Annexure-'III**' should be uploaded.
- In case the Tenderer is authorized dealer/supplier an undertaking/certificate issued by their Principle Manufacturer/Supplier that in case dealership/distributorship is withdrawn after supply then the Principle Manufacturer/Supplier will be responsible for Guarantee/Warranty/AMC/CMC. (Annexure 'IV').
- 1. This institution reserves the right to reject tenders without assigning any reason and increase or decrease the quantity of the articles tendered.
- 2. If the supply is not made within the stipulated period then late delivery charges @2% will be imposed on the total amount of Supply Order up to delay of 30 days and thereafter @ 4% for another 30 days after which Supply Order will be deemed cancelled & security/earnest money will be forfeited and company will be black-listed for future.
- 3. Payment Terms: 80% Payment will be released after satisfactory Installation and working of the Equipment and balance 20% will be made after 60 days of the Installation and satisfactory working of the equipment.
- 4. In-complete or conditional offers incorporating price variation will not be entertained.
- 5. The firm should have been in existence for at-least **three years** and it should have turn of **Rs.1,00,00,000/- per year.**
- 6. The successful bidder shall deposit bank guarantee of 10% of the total value of the equipment/s in the shape of Demand Draft only which will be returned after the expiry of the guarantee.

E-TENDER NOTICE FOR procurement and installation of X-Ray Units of 300 MA & 600 MA required at GGS Medical College & Hospital, Faridkot.

Annexure-I

TECHNICAL BID COMPLIANCE STATEMENT

Name and Address of the applicant / firm	

Specify whether Manufacturer/Dealer/Distributor:

Yes/No Yes/No Yes/No Yes/No Yes/No
Yes/No Yes/No Yes/No
Yes/No Yes/No
Yes/No
Vac/Nia
Yes/No
7

Signature &	& seal	of	bidd	leı
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Place	:
Date	:

Note: Please upload Catalogue/Brochure/Pamphlets with complete specifications of each Equipment quoted..

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Annexure-II

(To be furnished on non-judicial stamp paper worth Rs.100/- duly attested by Executive Magistrate or Notary Public).

<u>AFFIDAVIT</u>

	I/We
partnei	r/sole proprietor (Strike out which is not applicable) of (Name & Address of Firm)
	do hereby declare and solemnly affirm:-
a)	That the individual/firm/ companies are not debarred or black- listed by any
	department of Union/ State Government or any autonomous institute.
b)	That no partner or shareholder, directly or indirectly connected with the applicant who
0)	has been debarred or blacklisted by any department of Union Govt./State
	Govt./Autonomous Institute.
-)	And that the target and analytical for small and Installation of Engineering
c)	And that the terms and conditions for supply and Installation of Equipments at
	GGSMCH, Faridkot, are acceptable to me/us. I/We shall abide by them in letter and spirit.
Date:	
Place:	
riace.	DEPONENT
V/E	ERIFICATION
V L	EXIFICATION
	I/We do hereby solemnly declare and affirm that the above declarations are true and
correct	t to the best of my/our knowledge and beliefs. No part of it is false and nothing has been
concea	aled therein.
Date:	
Place:	
	DEPONENT

E-TENDER NOTICE FOR procurement and installation of X-Ray Units of 300 MA & 600 MA required at GGS Medical College & Hospital, Faridkot.

Annexure-III

MANUFACTURER'S/PRINCIPAL AUTHORIZATION FORM

TO

	The Registrar Baba Farid University of Health Sciences, Faridkot -151203	
	Ref. No Dated:	
Sub:	Authorization Certificate in favour of M/s	oly
manuf	M/s, who are established and reputal acturers of	a
the T	ender formalities with you against Tender No for the above tent(s) manufactured by us.	
	No company or firm or individual other than M/s	
the go	We, hereby extend our full guarantee and warranty as per the conditions of tender to ods offered for supply against this tender by the above firm.	fo:
	Yours faithful	ly
	(Nan For and on behalf of M/s (name of manufacturer/Princip	
	,	

Note: This letter should be signed by a person competent and having authority to sign on behalf of manufacturer, and should be on manufacturer Letter Head and same will be uploaded with Technical Bid.

E-TENDER NOTICE FOR procurement and installation of X-Ray Units of 300 MA & 600 MA required at GGS Medical College & Hospital, Faridkot.

Annexure - IV

UNDERTAKING BY MANUFACTURER/PRINCIPAL SUPPLIER

TO	
	The Registrar Baba Farid University of Health Sciences, Faridkot -151203
	Ref. No Dated:
Sub:	Undertaking for after sales service
manufa M/s	We, M/s, who are established and reputable cturers of
of equ	Further, we undertake that in case dealership/distributorship is withdrawn after supply ipment then we shall be responsible for after sales service till the date of ee/warranty of the equipment and afterwards for a period of 10 years.
	Yours faithfully
	(Name) For and on behalf of M/s (name of manufacturer/Principal)

E-TENDER NOTICE FOR procurement and installation of X-Ray Units of 300 MA & 600 MA required at GGS Medical College & Hospital, Faridkot.

Annexure- V			

Details of Bank Account of the firm who has deposited EMD

Name of the firm:

Sr. No.	Particulars	Detail
1.	Account No.	
2.	Name of Bank	
3.	Branch Name	
4.	IFSC Code of Bank	
5.	Name of Operator	

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ANNEXURE - VI

PRICE BID

TO BE UPLOADED in Printed/Computerized format in Excel Sheet Attached for all Equipments.