

SIBL Foundation
Fattah Plaza, 70 Green Road
Dhaka

Ref: SIBL/HO/SF/2017/1214-A

Date: 13.08.2017

Sub: Invitation of Tender for purchasing and supplying of Mobile C-Arm – General, Urology & Orthopedics in SIBL Foundation Hospital and Diagnostic Center, Fattah Plaza, 70 Green Road, Dhaka.

1	Name of the Institution	SIBL Foundation		
2	Procuring Entity Name	Social Islami Bank Limited, Logistic Support Division, Head Office, Dhaka		
3	Invitation of tender	purchasing and supplying of Mobile C-Arm – General, Urology & Orthopedics in SIBL Foundation Hospital and Diagnostic Center, 70 Green Road, Dhaka. For detail specifications, instruction & terms and conditions please scroll below or visit website www.siblb.com		
4.	Invitation for Quotation Ref. & Date	SIBL/HO/SF/2017/1214-A	date 13.08.2017	
5	Procurement Method	Open Tendering Method		

6	Source of Fund	SIBL Foundation		
7	Tender Last Selling Date	Not Applicable		
8	Date & Time for Submission, Closing & Opening of Tenders	Submission Date	Closing time	Opening Time
		22.08.2017	03.00 pm	03:30 pm
9	Name and address of the Office for receiving tender(s)	Senior Executive Vice President, Member, Technical Implementation Committee, SIBL Foundation, Level-29, City Centre, 90/1 Motijheel C/A, Dhaka-1000		
10	Time for Completion of entire works	Within 30 days from the date of issuing of the work order		
11	Place of opening tender documents	Social Islami Bank Limited, Level-29, City Centre, 90/1 Motijheel C/A, Dhaka-1000		
12	Eligibility of Tender(s)	The bidder must have (a) valid e-mail address (b) Valid Trade License (c) VAT Registration (d) TIN (e) Experience to any Private Hospital (s) solvency Certificate (f) Full address with e-mail and website (g) Related profile (h) Original brushier -the bidder(s) must be solvent to execute any work order without receiving any advance bill from the bank. The bidder must not be a bank.		
15	Tender Security	Tk. 50,000/- (Taka fifty thousand) only in the form of Payment Order (Refundable) favoring "SIBL Foundation". The interested bidders shall have to submit the price of Tender Document and Tender Security separately in the form of Payment order in the tender submission date.		
16	Tender Schedule Price	Tk.1,500/- (one thousand five hundred) only (non refundable) in the form of Payment Order of any Schedule Bank favoring SIBL Foundation.		
17	Address of Official Inviting Tender	Logistic Support Division, Social Islami Bank Limited Level-29, City Centre, 90/1 Motijheel C/A, Dhaka-1000		
18	Contact Details	Telephone No. 09612001122, email: lsd@sibl-bd.com		
19	Machine	Brand new as per specification.		
20	Price	The rate shall be quoted in the bidders Letter Heads complying all specifications and terms and conditions of this tender. Incomplete tender/offer will be invalid. The bidders' tender shall be inclusive of the costs of transportation, carrying, rigging, installation/fitting, testing, commissioning at the specified site and VAT & Tax etc as per Government Rule for Local Supply.		
21	Validity of tender	30 days		
22	Mode of payment	The supplier will have to submit bill with original Mushak-11 Challan after delivery with origin and successful supply, installing/fitting, testing and commissioning subject to approval of the competent authority.		
23	Supply of Machinery	Ready Stock/Letter of Credit (LC)		
22	Performance Security	10% (ten percent) of the entire bill amount will be retained as performance security for 1 (one) year from the date of successful commissioning of the above items subject clearance of the respective Incharge of SIBL Foundation Hospital and Diagnostic Center if Local supply.		

23	Special Instruction	The tender process will be guided as per Tender Bidding & Purchase Policy of the Bank and as per specific instructions and terms & conditions mentioned in the bank's website www.siblb.com. The Authority of the Bank/SIBL Foundation reserves the right to reject any or all quotation prior to acceptance and is not bound to select the lowest bidder.
24	Country of Origin, Manufacturer and Brand	Bidder must be mentioned in their Offer.
	Warranty	2 year full replacement warranty with service

A. Financial Specifications for purchasing and supplying of Mobile C-Arm – General, Urology & Orthopedics

SN	Name of the Items & Description	Qty.	Amount
1	Mobile C-Arm – General, Urology & Orthopedics	1 unit	

B. Technical Specifications for purchasing and supplying of Mobile C-Arm – General, Urology & Orthopedics

The mobile X-ray image intensifier system with c-arm suitable for fluoroscopy, pulsed fluoroscopy, digital radiography, exposure and should have following features-

- The single tank inverter type high frequency X-ray Generator suitable for fluoroscopy time of over 60 minutes.
- USB Port for exporting images.
- Image storage facility in hard disk of at least 150,000.
- DVD Writer for digital image storage on CD-R, DVD+R or DVD-R for offline data exchange in DICOM 3.0 format.
- 1K x 1K matrix for image processing, storage and archival.
- Three-stage edge enhancement facilities.
- Auto loop for fluoroscopy, pulsed fluoroscopy.
- Recursive filtration, summation or motion dependent noise reduction.
- Inherent filtration not less than 3 mm Al equivalent.
- Iris collimator for concentric, radiation-free collimation.
- Semitransparent slot diaphragm for symmetric, radiation-free collimation with unlimited rotation.
- TV System with full size maintenance free CCD sensor.
- Automatic gain control for constant image brightness must be available
- I. I Output screen should be anti-glare type.
- I. I input screen should be Cesium –iodide.
- Should be possible to steer the C-arm with only one steering handle.
- Light weight (max. 260 kg) C-arm chasis.

The whole system comprise of:

1. C-arm:

- (i) Orbital movement: 130⁰(at least)
- (ii) Angulation: not less than $\pm 225^0$
- (iii) Horizontal movement : 20 cm or more.
- (iv) Immersion depth : 70 cm or higher.
- (v) Swivel range : $\pm 12^0$ or higher
- (vi) Vertical travel : minimum 40 cm (motorized)
- (vii) Source to I.I distance : 100 cm or more
- (viii) Free space : 75 cm or more.

2.. X-ray Generator & Tube:

Please note we are looking for a low dose machine which will be used continuously in fluoro mode for a long time in OR environment. So a machine with low KW generator and high resolution 0.6 mm focal spot tube is good enough for us. We will never use 1.0 mm or above focal spot tube which is required for high KW generator.

- (i) Power : 2.2 kW or more.
- (ii) Inverter control frequency : 15 kHz to 30 kHz
- (iii) kV range : 40 kV to 110 kV
- (iv) mA for Fluoroscopy : 0.2 mA to 15 mA (continuous), 3 mA to 25 mA (pulsed)
- (v) Digital Radiography : 0.2 mA to 25 mA
- (vi) Nominal Focal spot for stationary anode : 0.6
- (vii) Nominal voltage : 110 kV
- (viii) Anode angle : 9⁰ (optical)
- (ix) Inherent filtration : Not less than 3 mm Al equivalent.

3. X-ray image intensifier & TV System:

Should have metal enamel technology with Mu-metal shielding
Should have precision electron optics with minimal image distortion and consistent high resolution across the entire image field.

(i) Nominal diameter : 23 cm or more

(ii) Zoom format : at least 2 zoom formats in addition to full format size

(iii) Digital Image Rotation : $\pm 360^\circ$

(iv) DQE : 60% or more

(v) Visual Resolution : minimum 1.8 lp/cm with cu-filtration and full size image.

4. Displays: 2 nos. 19" TFT displays with mobile monitor cart. Should allow for vertical display positioning without moving the monitor cart with a rotation angle of at least 240°

Image Matrix : 1280 x 1024

Brightness : Min. 280 cd/m²

5. Image acquisition & processing:

Should have continuous fluoroscopy with Last image hold

Should have pulsed fluoroscopy with Last image hold

Should have digital Radiography

Selection of application-specific fluoroscopy and radiography curves for the individual operating modes.

Acquisition speed : 0.5 f/s to 30 f/s (Continuous fluoro mode), up to 15 f/s (pulsed fluoro mode)

Should Digital filtration

Should have moving weighted averaging for low noise image display with minimum dose.

Should have optimized gray-scale visualization based on image analysis.

Should have a smart dose management system specially designed for C-Arm. Should provide optimum balance between image quality and dose as well as automatic contrast and brightness regulation.

Should have movie function for playback of scenes and auto replay function.

Should have motion detection with active noise reduction.

Should have metal correction facility.

Should have following image acquisition and processing hardware :

Processor : Intel dual core or equivalent

OS : Windows 7, 64 bit or equivalent

RAM : 4 GB or more

HDD : 2 TB or more

High performance professional level graphics card.

6. UPS: 3 KVA online UPS with 10 min. back up.

7. The following accessories have to be supplied:

- Lead Apron – 4 nos.

- Foot switch for radiation release – 1 no.

- Universal Key board – 1 no.

- Video printer – 1 no.

8. Warranty: 27 months from the date of shipment or 24 months from the date of installation and commission which ever period comes earlier.

9. Quality Standard: EC & FDA Certificate of the offered model must be submitted with the offer.

10. Country of origin: Germany/USA/France/Switzerland/Netherland

(Md. Akbar Ali)

Member, Technical Implementation Committee,

SIBL Foundation,

Level-29, City Centre, 90/1 Motijheel C/A, Dhaka-1000

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