

19.09.2017

TAMILNADU MEDICAL SERVICES CORPORATION LTD.

TENDER FOR FIXING RATE CONTRACT FOR SUPPLY AND INSTALLATION OF C-ARM TO DEPT.OF SURGICAL GASTROENTEROLOGY, GOVT. RAJAJI HOSPITAL, MADURAI UNDER PMSSY SCHEME

TENDER NO. 90/CARM/PMSSY-GRHM/TNMSC/ENGG/2017, Dt.22.02.2017

Corrigendum

a) The following corrigendum are issued:-

Sl. No.	Tender Document Reference	Instead of	Read as
1.	Page No.53 Section VI: Technical Specification And refer corrigendum issued on 31.08.2017	Existing text	Revised text at Annexure I
2.	Page No.51 Section V: Schedule of Requirements And refer corrigendum issued on 31.08.2017	Existing Text	Revised Text at Annexure - II
3.	Page No.57 Section VI A: Qualification Criteria And refer corrigendum issued on 31.08.2017	Existing Text	Revised Text at Annexure - III
4.	Page No.59 Section VI: Bid form and Price Schedule And refer corrigendum issued on 31.08.2017	Existing Text	Revised Text at Annexure - IV

All other terms and conditions of the tender remain unaltered.

The above forms part of the bidding documents. The bidder shall attach the copy of this corrigendum duly signed by their authorized signatory, in their bid.

Sd/-

General Manager (E)

SECTION VI : TECHNICAL SPECIFICATIONS**1. SPECIFICATION FOR C-ARM (Type-I)**

The system should be digitally integratable with PACS and HIS systems.

C Arm - X-Ray System**Generator**

- 80 KHz High frequency
- 7.5 kW full-wave
- Up to 120kVp
- Up to 60mA for radiographic film exposures
- Continuous fluoro boost mode up to 20mA
- Pulsed fluoro mode
- Pulsed fluorography mode up to 60mA
- Full power from outlet:
 - 50 Hz or 60 Hz
 - 100V-20A to 240V-10A

X-Ray Tube

- Rotating anode X-ray tube
- Focal spots:0.3 mm and 0.6 mm
- Anode heat capacity:300,000HU
- Anode cooling rate:70,000 Hu/min
- Housing heat capacity:1,900,000,HU
- Anode diameter:2.8 in
- Anode angle:10

Collimator

- Iris collimation with dual opposing lead Shutters allowing elliptical, round and Rectangular collimation
- Minimum beam size $5 \times 5 \text{ cm}^2$
- Iris and shutters are continuously variable
- All functions remotely controlled from the C-Arm control panel

Fluoroscopy

- Focal spot:0.3 mm and 0.6 mm
- kVp range:40 – 120kVp

- mA range :0.1 – 10 mA Low Dose fluoro mode
- mA range: 0.2 – 20 mA continuous
- High Definition fluoro boost mode
- auto and manual modes
- continuous or Pulsed operation
- APF varies mA, kvp and camera gain
- User specific APF tables Pulsed fluoroscopy Mode
- Half Dose fluoroscopy
- Quarter Dose Fluorscopy
- Focal spot: 0.6 mm
- kVp range: 40-120 kvp
- mA range: 0.4 -12 mA
- Pulse rate:6.25 or 12.5 pulses per second
- Pulse width: 11 to 37 milliseconds
- Computer controlled APF, mA, kVp and camera gain

Pulsed Fluorography Mode

- Focal spot:0.6 mm
- kVp range:40 -110 kvp
- mA range: Up to 60 mA
- Pulse rate: 3 to 30 Pulses per second (Essential)
- Pulse width: 0.8 / 9.5 / 11.1 milliseconds
- Computer controlled camera iris, mA, Kvp, & camera again

Digital Exposure Mode

- Focal spot:0.6 mm
- kVp range:40 -120 kvp
- mA range: 1.0 - 75 mA

Radiographic Mode

- Focal spot:0.6 mm
- kVp range:40 -120 kvp
- fixed 60 mA
- 0.6 mm - mA range: 3.2 - 125 mAs

Video Imaging System Image Intensifier 9 in Image Intensifier

- Tri_mode 9 in/7 in/5 in image intensifier
 - 9 in.: 1.6 lp/mm
 - 7 in.: 2.1 lp/mm
 - 5 in.: 2.9 lp/mm
- DQE: 65% (typical)

Optional - 12 in Image Intensifier

- Tri-mode 12 in/9 in/7 in imageintensifier
 - 12 in.: 1.2 lp/mm
 - 9 in.: 1.4 lp/mm
 - 7 in.: 2.0 lp/mm
- DQE: 65% (typical)

Note - The bidder should quote the difference in price between 9" image intensifier and 12" image intensifier separately

Video Camera

- High resolution CCD camera
- 525 line/frame
- Full frame capture
- 360 motorized rotation
- Left-right image reversal
- Top –bottom image reversal
- Negative mode
- Computer controlled features(Essential)
 - Gain
 - Blanking
 - Camera iris

Video Monitors

- Dual 17 in high resolution, anti- _glare, anto-static
- Ambient room light sensor
- Multi-LED X-ray “ON” Indicator

Hardcopy Options

- Thermal printer
- DICOM
- Image Capture Device

- Laser aiming device

C-Arm Dimensions

- Height: 71/91 in (1805 / 2305 mm) approx. **Specify actual value**
- Width: 35 in (880 mm) approx. **Specify actual value**
- Depth: 37 in (925 mm) approx. **Specify actual value**

General conditions:

1. All Equipment should be USFDA/CE (European)UL/DGCI approved for medical use.
2. Manufactures/Suppliers should have ISO certification for Quality Standards.
3. Electrical safety conforms to standards for electrical safety IEC-6060I or better-general requirements.
4. Certificate of calibration and inspection.
5. All consumables required for installation, standardization and smooth functioning of equipment for 3 months period should be given free of cost along with supplied Equipments(if any)

2. SPECIFICATION FOR C-ARM (Type-II)

The system should be digitally integratable with PACS and HIS systems.

C Arm - X-Ray System

Generator

- **40 Khz or more High frequency. Specify actual value**
- **Power output 2KW or more. Specify actual value**
- Up to 120kVp
- Up to 60mA for radiographic film exposures
- Continuous fluoro boost mode **up to 15mA or more. Specify actual value**
- Pulsed fluoro mode
- Pulsed fluorography mode up to 60mA
- Full power from outlet:
 - 50 Hz or 60 Hz
 - 100V-20A to 240V-10A

X-Ray Tube

- Rotating anode X-ray tube
- Focal spots:0.3 mm and 0.6 mm
- Anode heat capacity:300,000HU
- Anode cooling rate:**25KHu/min or more. Specify actual value**
- Housing heat capacity: **1,900,000,HU or more. Specify actual value**

- Anode angle:10

Collimator

- **Iris collimation with dual opposing lead Shutters allowing round collimation**
- Minimum beam size <5*5 cm²
- All functions remotely controlled from the C-Arm control panel

Fluoroscopy

- Focal spot:0.3 mm and 0.6 mm
- kVp range:40 – 120kVp
- mA range :**0.2 – 4 mA or more** Low Dose fluoro mode . **Specify actual value**
- mA range: 0.2 – 20 mA continuous
- High Definition fluoro boost mode
- auto and manual modes
- continuous or Pulsed operation
- APF varies mA, kvp and camera gain
- User specific APF tables Pulsed fluoroscopy Mode
- Half Dose fluoroscopy
- Quarter Dose Fluorscopy
- Focal spot: 0.6 mm
- kVp range: 40-120 kvp
- mA range: 0.4 -12 mA
- Pulse rate:6.25 or 12.5 pulses per second
- **Pulse width: Specify actual value**
- Computer controlled APF, mA, kVp and camera gain

Pulsed Fluorography Mode

- Focal spot:0.6 mm
- kVp range:40 -110 kvp
- **mA range: Up to 15 mA or more (Specify the mA of Pulse fluoro mode, Boost pulse fluoro mode, Radiography mode)**
- Pulse rate: 3 to 30 Pulses per second (Essential)
- Pulse width: 0.8 / 9.5 / 11.1 milliseconds
- Computer controlled camera iris, mA, Kvp, & camera again

Digital Exposure Mode

- Focal spot:0.6 mm

- kVp range:40 -120 kvp
- mA range: **1.0 - 20 mA. Specify actual value**

Radiographic Mode

- Focal spot:0.6 mm
- kVp range:40 -120 kvp
- fixed 60 mA
- 0.6 mm - mA range: 3.2 - 125 mAs

Video Imaging System Image Intensifier 9 inch Image Intensifier

- Tri_mode 9 in/7 in/5 in image intensifier
 - 9 in.: 1.6 lp/mm
 - 7 in.: 2.1 lp/mm
 - 5 in.: 2.9 lp/mm
- DQE: 65% (typical)

Optional - 12 inch Image Intensifier

- Tri-mode 12 in/9 in/7 in imageintensifier
 - 12 in.: 1.2 lp/mm
 - 9 in.: 1.4 lp/mm
 - 7 in.: 2.0 lp/mm
- DQE: 65% (typical)

Note - The bidder should quote the difference in price between 9" image intensifier and 12" image intensifier separately

Video Camera

- High resolution CCD camera
- 525 line/frame
- Full frame capture
- 360 motorized rotation
- Left-right image reversal
- Top –bottom image reversal
- Negative mode
- **Gain -Controlled from software**
- Computer controlled features(Essential)
 - Blanking
 - Camera iris

Video Monitors

- Dual 17 in high resolution, anti-glare, anti-static
- Ambient room light sensor
- Multi-LED X-ray “ON” Indicator

Hardcopy Options

- Thermal printer
- DICOM
- Laser aiming device

C-Arm Dimensions

- Height: **Specify actual value**
- Width: **Specify actual value**
- Depth: **Specify actual value**

General conditions:

1. All Equipment should be USFDA/CE (European)UL/DGCI approved for medical use.
2. Manufactures/Suppliers should have ISO certification for Quality Standards.
3. Electrical safety conforms to standards for electrical safety IEC-60601 or better-general requirements.
4. Certificate of calibration and inspection.
5. All consumables required for installation, standardization and smooth functioning of equipment for 3 months period should be given free of cost along with supplied Equipments(if any)

Note: Bidders shall furnish technical compliance statement for the model quoted , details of manufacturer including deviations if any. Technical catalogue /data sheet shall also be furnished in support of technical compliance statement with out fail.

SECTION - V
SCHEDULE OF REQUIREMENTS

Sch. No.	Brief Description	Unit	Qty.	Bid security (Rs.)
1.	C-ARM (Type I) as per specification	Nos.	5	Rs. 2,30,000/-
2.	C-ARM (Type II) as per specification	Nos.	5	

Delivery Schedule: - 45 days from the date of confirmation of e-LORA from the hospital authorities.

Important Note: The bidder may quote the prices for any one or both schedule separately. However, the purchaser reserves the rights to order to any one of the schedule or combination of both, at their full discretion based on prices, the utility factors and end user requirement.

Place of Delivery:- The above equipment to be delivered at Dept. of Surgical Gastroenterology, Govt. Rajaji Hospital, Madurai.

However, during the rate contract period, further quantity may be ordered for any other Govt. Medical Institutions at the same rate and terms & conditions.

Note :

- 1) The rate contract should be valid for a period of 2 years from the date of acceptance of the tender and extendable for further period on mutual acceptance.
- 2) The quantity indicated in tentative and will vary as per the actual requirement during the rate contract period. The supplier should have no claim against the purchase on the actual quantity of orders placed during the rate contract period.

SECTION VI-A : QUALIFICATION CRITERIA

(Referred to in Clause 11.2 of ITB)

For determining the lowest-evaluated bid, the Purchaser shall carry out the post qualification of the Bidder in accordance with ITB Clause 11.2, using only the requirements specified. Requirements not included in the text below shall not be used in the evaluation of the Bidder's qualifications

The Bidder shall furnish documentary evidence to demonstrate that it meets the following experience requirement(s):

1. **Manufacturer Bidders**

- (i) *The bidder must have manufactured and supplied satisfactorily the similar model **quoted** in each schedule of the Schedule of Requirements either directly or through of any other authorized dealer to the extent of at least 1 No. for sl. No 1 & 2 under "Section – V, Schedule of Requirements" in any one of the last five years **of which minimum 1 No. should have been supplied to Indian Institution** and should be in use satisfactorily with no adverse report for at least one year preceding the date of bid opening.*
- (ii) *The Bidder should furnish a brief write-up, backed with adequate data, explaining his available capacity and experience (both technical and commercial) for the manufacture and supply of the required equipment within the specified time of completion after meeting all their current commitments.*
- (iii) *The bidder should clearly confirm that all the facilities exist in his factory for inspection and testing and these will be made available to the purchaser or his representative for inspection.*

2. **Non- Manufacturer Bidders**

*In the case of a Bidder offering to supply Goods under the Contract that the Bidder does not manufacture or otherwise produce, **the Bidder should be duly authorized by the manufacturer of the Goods who meets the criteria under (1) above** (all supporting documents/information as asked above for manufacturer shall be submitted with the bid) and*

- a) *The manufacturer furnishes a legally enforceable authorization in the prescribed Form [Section XII] assuring full guarantee and warranty obligations as per GCC and SCC for the goods offered; and*
- b) *The bidder, as authorized by the manufacturer, must have supplied and provided after sales service to the extent of at least 1 No. of the quantities for sl. No.1 & 2 of **similar model** in the Schedule of Requirements in any one of the last five (5) years **to Indian Institution**, which must be in satisfactory operation at least for one year on the date of bid opening.*

3. Common to Both Manufacturer and Bidder

(i) *The information on past supplies and satisfactory performance should be given in the Proforma given under Section-XI.*

(ii) *Documentary evidence (end users certificate) in support of the satisfactory operation of the goods as specified above shall invariably furnished.*

(iii) *Data to support that the manufacturer has the financial and production capacity to perform the contract and complete the supplies within the stipulated delivery period shall be furnished. for the non-manufacturer bidder data to support that he has the financial capacity to perform the contract and complete the supplies within the stipulated delivery period shall be furnished. Reports on financial standing shall be in the form of profit and loss statements, balance sheets and auditors report for the past three years, bankers certificate, etc.,*

a) *The bidder should have a manufacturing capacity of at least 60 Nos. for similar capacity machines per annum certified by licensing authority/ chartered accountant.*

b) *The annual sales turnover for the bidder should be at least Rs.230.00 lakhs in any one of the last three years (2013-2014 to 2015-2016), and it should be certified by the chartered accountants.*

c) *The bidder should have a cash/ credit limit of at Rs.57.50 lakhs with their bankers exclusively for this contract and a certificate for the above shall be furnished by the bankers.*

(iv) *Further, the manufacturer should be in continuous business of manufacturing / supplying and after sale services of products similar to that specified in the 'Schedule of requirement' during the last 5 years prior to bid opening. In case of non-manufacturer bidders, this condition should be satisfied by the manufacturer of the product.*

¹ *The legal status, place of registration and principal place of business of the company or firm or partnership, etc.;*

Notwithstanding anything stated above, the purchaser reserves the right to assess the bidder's capabilities and capacity to execute the contract satisfactorily before deciding on award

Even though the bidders meet the above qualifying criteria, they are subject to be disqualified if they have made misleading or false representations in the forms, statements and attachments submitted in proof of the qualification requirements; and/or record of poor performance such as, not properly completing the contract, inordinate delays in completion, litigation history, or financial failures etc.

Note:

1) The above post qualification requirements are to be met by the bidder (in case of manufacturer bidders) and the bidder and the manufacturer respectively (in case of non manufacturer bidders) and qualification of group/sister/parent companies will not be considered for meeting the above requirement.

2) *For the purpose of furnishing documentary evidence to meet the post qualification criteria, the bidder should furnish the following:*

- a. *The supply made to public sector/Government units in India/private sector, the bidder should submit an affidavit confirming that the performance statement given is correct along with copy of purchase order, copy of invoices, proof of payment received from Purchasers, documentary evidence (end user certificate) in support of satisfactory completion of orders and function as stated above.”*
- b. *The foreign manufacturer is permitted to submit an affidavit in their letter head duly signed by the authorized signatory of the manufacturer confirming that the performance statement given is correct.*

ANNEXURE – IV

PRICE SCHEDULE – REVISED

1	2	3	4	5					6	7	8
				PRICE FOR EACH UNIT							
Sch. No.	Item Description	Country of origin	Quantity & Unit	Ex-factory Ex-warehouse Ex-showroom off-the shelf for CIF (a)	Packing & forwarding (b)	Inland transport, Insurance and Incidental costs incidental to delivery (c)	Incidental services as listed in clause 7 of SCC (d)	Customs duty (e)	Unit price a+b+c+d+e	Total price per schedule for delivery at final destination (4 x 6)	GST – IGST/CGS T/ SGST payable if contract is awarded
1	C-ARM (Type-I) as per specification		5 nos.								
1a	Difference in price between 9" image intensifier and 12" image intensifier		1 no.								
2	C-ARM (Type-II) as per specification		5 nos.								
2a.	Difference in price between 9" image intensifier and 12" image intensifier		1 no.								

i. Unit price in (6) (Rs in words)

1. C-ARM (Type I) as per specification
2. C-ARM (Type I) as per specification

a) Annual Maintenance Charges (labour only) per year for 7 years after 3 years free warranty maintenance period

1. C-ARM (Type I) as per specification
2. C-ARM (Type I) as per specification

b) Annual Maintenance Charges (Comprehensive) for 7years / per year after 3 years free warranty maintenance period

1. C-ARM (Type I) as per specification
2. C-ARM (Type I) as per specification

Note:

- (a) In case of discrepancy between unit price and total price, the unit price shall prevail.
- (b) **This price schedule should be placed in separate sealed cover “Cover B”**
- (c) **GST tax applicable for Annual Maintenance Charges shall be indicated separately.**
- (d) **The bidder should indicate the HSN code of the equipment/ service and applicable GST rates.**
- (e) **The bidder may quote the prices for any one or both schedule separately (1 & 1a and 2 & 2a). However, the purchaser reserves the rights to order to any one of the schedule or combination of both, at their full discretion based on prices, utility factors and end user requirement.**

Place :

Signature of Bidder.....

Date :

Name

Business Address