

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI

**King Edward VII Memorial Hospital,
CSR Wing, Social Service Department,
Parel, Mumbai 400012**

CSR-KEMH/Sealed Tender/532

date: 25.09.2024

Procurement through Sealed Tender

Subject- To invite Sealed Tender from Original Equipment Manufacturer /Vendor / Distributor to supply of C-Arm with Flat Panel Detector (2 Units) at Orthopedics. Dept. of KEM Hospital through CSR Fund received in PBCF Dept. of KEM Hospital.

King Edward Memorial Hospital is one of the leading tertiary care, public hospitals in the metropolis of Mumbai that provides basic as well as specialized services to needy patients from all over the country. With a glorious legacy of 96 years and currently catering to over 1.8 million out-patients and 85,000 in-patients annually, the institute is among the top ranked medical institutes in India. The CSR Wing of the Social Service Department has been working hard to raise funds to procure advanced medical equipment for various medical and surgical specialty and super specialty departments of KEM, with the objective of providing state of the art facilities to the underprivileged sections of our society.

Through CSR funds raised by the CSR Wing of the Social service department, we wish to purchase of **C-Arm with Flat Panel Detector (2 Units) at Orthopedics Dept. of KEM Hospital.**

For purchase of the above equipment, it is proposed to invite '**Sealed Tender**' from Original Equipment Manufacturer /vendors / Distributor, to supply the same to KEM Hospital. To supply of Original Equipment Manufacturer /vendors / Distributor should purchase a form Poor Box Charity Fund, KEM Hospital from **27.09.2024. to 04.10.2024** in working hours and all proposals with the required documents should be submitted on or before **04.10.2024 (by 1.00 pm) in the CSR office, Room No. 65, Social Service Department, KEM Hospital, Parel, Mumbai 400012.** With Two Packet System (i.e. Packet A is an Administrative & Technical Documents & Packet B is a commercial) do not disclosed the price other than commercial packet. The packet will be open in front of CSR Committee as per schedule decided by committee.

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Specifications For C-Arm with Flat Panel Detector at Orthopedics Dept of KEM Hospital

	Description
Name of Equipment	C-Arm with Flat Panel Detector (2 Units) 'at Orthopedics Dept. of KEM Hospital
Specification of Equipment	<p>A) FLAT PANEL DETECTOR:</p> <ol style="list-style-type: none">1) Should have Dynamic Flat Panel Detector of Amorphous silicon technology2) Should have caesium iodide scintillator material for conversion screen3) Should have size of 23cm x 23cm or more4) Should have Pixel Pitch of 155 µm or less5) Should have image matrix of 1.5K x 1.5K or more.6) Should have 16 bit or more A/D conversion <p>B) MONITOR:</p> <ol style="list-style-type: none">1) Should have dual 19" or more High Resolution, flicker free Flat Screen Monitor with split screen display of Live image & Saved Memory Image2) It should be mounted on modular design mobile trolley having caster wheels & locking system. <p>C) C-ARM MOVEMENTS:</p> <ol style="list-style-type: none">1) Should have Fully counter balanced all movements2) Should have C-Arm Rotation of 360 degree or more in both side3) Should have motorized vertical travel of 430mm or more4) Should have horizontal travel of 210mm or more5) Should have Arc orbital travel of 140 degree or more6) Should have wig wag of ± 12.5 degree or more7) Should have C-Arc Depth of 700mm or more8) Should have free space of 780mm or more9) Should have Source to image distance of 970 mm or more10) Should have total width of less than 800mm11) Should have double steering wheel system for easy positioning of machine

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D) X-RAY GENERATOR:

- 1) Should have Generator frequency of 200 KHz or more
- 2) Should have Generator power output of 3.5 KW or more
- 3) Should have KV range of 40 to 100 KV or more in fluoroscopy & radiography mode.
- 4) Should have 20mA or more in Digital spot mode.
- 5) Fluoroscopic mA range and important parameter
 - a) Up to 20mA or more in normal fluoro mode
- 6) Should have mAs selection range ≤ 1 mAs to ≥ 20 mAs

E) X-RAY TUBE:

- 1) Should have Dual Focus Stationary/Rotating anode X-Ray tube of focal spot 0.6mm (small focus) & large focus (1.2mm)
- 2) Should have Anode Heat storage capacity of 72 KHU or more.
- 3) Should have collimator with lead collimator shutters

F) CONTROL PANEL: Control Panel should have a display on which KV, mAs, Fluoro mA, MAG, Heat unit and Various Interlocks e.g. KV interlock, Filament interlock and Thermal interlocks are displayed. It should also have the following functions:

- 1) Machine ON/OFF switch
- 2) Should have Emergency Off switch
- 3) Should have following exposure modes and selection from control panel:
 - a) Continuous fluoroscopy mode
 - b) Boosted Fluoroscopy mode
 - c) Low Dose Paediatric Fluoroscopy mode
 - d) Single snap shot mode
 - e) Pulse fluoroscopy mode
 - f) Automatic Dose Rate Control (ADRC) mode
- 4) Should have 5 min cumulative timer with buzzer and re-initiate switch
- 5) Should have exposures through foot switch as well as hand switch with retractable cord.
- 6) Should have laser centering device with switching from control panel.
- 7) Should have Collimator controls switches.

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- 8) KV and mAs increase and decrease switches.
- 9) Switches for up/down movement of “C” on both side of panel.

G) MEMORY SYSTEM: -

- 1) Should have Digital Image processing software with real time image capturing, storage of more than 10000 images in 1.5K x 1.5K format.
- 2) Should have User selectable pre-set programs.
- 3) Should have real time endless Digital Image Rotation (CW/CCW).
- 4) Should have Recursive filter for noise reduction.
- 5) Should have Image Mirror (Horizontal and Vertical) & Image Negative.
- 6) Should have Contrast & Brightness Enhancement (WW/WL adjustment).
- 7) Should have Digital Zoom/Magnification of image.
- 8) Should have image annotation and text marking on image.
- 9) Should have USB Pen drive provision for external image storage.
- 10) Should be DICOM ready, DICOM Worklist, DICOM Print provision.

H) ACCESSORIES:

- 1) Light weight lead apron- 6 Nos.
- 2) Thyroid shields -4 Nos
- 3) Gonad shield - 4 Nos
- 4) Lead Goggles – 04 Nos,
- 5) Lead apron wall stand with hangers- 1No.

(Note that Radiation Protection accessories should be ICMED 13485 certified and must be of reputed brand only, Radiation protection gloves 20 nos.)

I) POWER REQUIREMENT:

- 1) The unit should be operable on Single Phase 230 V \pm 10% AC, 50 Hz.
- 2) Inbuilt electronic voltage stabilizer should be provided.
- 3) UPS for power backup of the software should be provided.

1. General requirement -

- The equipment should have warranty of three years as described in the terms and condition document. The warranty and CMC shall cover the list of spare parts and

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	<p>the rate of which shall be valid for total 8 years (warranty 3 years and CMC 5 years) irrespective of whether those are treated as consumables or otherwise.</p> <ul style="list-style-type: none">• After the warranty period is over, five years Comprehensive Maintenance contract (CMC) will have to entered into with the terms and conditions mentioned in the documents as per BMC norms. List of consumables will be submitted by supplier with cost freeze in advance for the warranty and CMC period• It should be CE certificate by European notified body under MDD along with Declaration of Conformity or US FDA approval• In case of CE (other/ general) following documents are required to be enclosed.• Declaration of Conformity by manufacturer or EU representative of Manufacturer for the quoted model.• Documentary evidence regarding firm registered with EEA (European Economic Area) Competent authority is required.• Or European Representative registered with EEA (European Economic area) Competent authority appointed by firm is required.• Or Other documents like certificates from notified body along with declaration of conformity is required.• Users list with address and contract numbers and past performance certificate for the quoted model should be provided.• Demonstration of offered model is compulsory.• All the equipment, instrument offered should be supplied by the same manufacture's principal• Power supply- 230 V\pm 15%,50 Hz \pm3%• Service Training to MEC Engineer and Operational training to user department should be provided.• Operating and detail service manual with circuit diagram should be provided.• Topicalizations:<ul style="list-style-type: none">Operation Temperature : 40°CStorage Temperature : 60°CRelative Humidity : Up to 90% non -Condensing
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General Conditions:

Warranty period	Comprehensive warranty on equipment and all spares shall be three years. Inclusion and exclusion of Warranty documents should be clearly stipulated.
CMC	<u>Comprehensive Maintenance Contract (CMC)</u> <ol style="list-style-type: none">1) After the warranty period is over, five years Comprehensive Maintenance Contract (CMC) will have to be entered into with the terms and conditions mentioned in the documents as per BMC norms. List of spare parts / consumables will be submitted by supplier with cost freeze in advance for the warranty and CMC period.2) The successful supplier must ensure that all the required spares/consumables and services are available during warranty and CMC period and 2 years after that, duly backed by the principal.
<u>GENERAL REQUIREMENTS:</u>	<ol style="list-style-type: none">1) All items Price should include GST charges & any other charges. (Supplier needs to submit basic cost of equipment and GST rate in prescribed format).2) The above equipment shall be new and manufactured from virgin materials.3) It is mandatory to provide free installation & training for use of equipment.4) The equipment should have warranty of three years as described in the terms and condition document. The warranty and CMC shall cover the list of spare parts and the rate of which shall be valid for total 8 years (warranty 3 years and CMC 5 years) irrespective of whether those are treated as consumables or otherwise. (Mentioned as per Technical Specification)5) After the warranty period is over, five years Comprehensive Maintenance contract (CMC) will have to entered into with the terms and conditions mentioned in the documents as per BMC norms. List of spare parts / consumables will be submitted by supplier with cost freeze in advance for the warranty and CMC period6) Training to Medical Electronics Cell Engineers from servicing point of view and to user department from operating point of view is compulsory.7) Supplier should submit all technical details in the form of technical brochures / leaflets for all the equipment proposed for supply and mentioned in the technical offer.

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<u>Procedure for the opening of Sealed Tender:</u>	Packet- '1' (Administrative & Technical) will be opened in front of CSR Committee as per schedule decided by committee. Packet- '2' (Commercial Packet) will be opened only if the administrative & technical offer is technically responsive. administrative and technical offer in Packet '1' is found not technically responsive or found incomplete, then Packet - '2' (Commercial Packet) will not be opened and offer will be kept out of consideration. The date and time of the opening of Commercial Packet will be intimated to the responsive bidder via mail. No complaint for non-receipt of such intimation will be entertained.
<u>Delivery & Installation Period</u>	1) Supplier should give free delivery at user department of KEM Hospital within 60 days from the date of receipt of purchase order. 2) Installation and commissioning of equipment shall be done within 15 days from the delivery of the equipment.
<u>Payment Conditions</u>	1) 80% payment will be made after the satisfactory supply & Installation of the equipment, submission of bills and submission of all required documents as per BMC norms.5 2) The balance 20 % payment will be released after satisfactory installation commissioning of the equipment. The Performance Certificate of equipment shall be issued by competent authority/ Concerned HOD of User department. Also, user department shall obtain satisfactory inspection report from EE (MEC).
All the above conditions should be strictly adhered to failing which the tender will be treated as non-responsive and no correspondence will be entertained in the matter.	
Necessary structural strengthening of site of installation shall be done through registered structural engineer appointed by bidder. Certificate to this effect shall be submitted after completion of work.	

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The supplier should be submitting documents mention in check list attached herewith.

If any doubts or any query about above mentioned work, you can contact CSR Wing of the Social Service Department / Dept of Orthopedics, KEM Hospital, Parel, Mumbai - 400012.

**SD/-
Head - CSR
GSMC & KEMH
K.E.M. Hospital**

**SD/-
HoD, Social Service Dept
GSMC & KEMH
K.E.M. Hospital**

**SD/-
HOD, Dept. of Orthopedics,
GSMC & KEMH
K.E.M. Hospital**

**SD/-
Administrative Executive Officer
GSMC & KEMH
K.E.M. Hospital**

**SD/-
Dy. Dean
GSMC & KEMH
K.E.M. Hospital**

**SD/-
Dean
GSMC & KEMH
K.E.M. Hospital**

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Check list of Documents to be submit with Sealed Tender form as per the order given below.

Sr No	Administrative Documents	Sr. No.	Technical Documents
1	Sealed Tender Form	1	Technical Offer
2	Tri party agreement	2	List of Consumables (Applicable in Warrenty & CMC Period)
3	Sealed Tender Form Fee Receipt	3	Comparison of Sealed Tender specification v/s Quoted equipment specification
4	Authorization Certificate.	4	Experience Certificate
5	Undertaking about CMC for 5 year after 3 year warranty period is over will be follows as per BMC norms	5	Past Performance Certificate of Quoted Equipment.
6	Signed copy of Terms & Condition of Sealed Tender Document	6	Copy of valid CE certificate OR copy of valid USFDA approval as mentioned in General Conditions (Technical specifications).
7	Firm/Company/ Sanstha Registration Certificates	7	Technical brochure of quoted model
8	Partnership deed (If applicable)		
9	Pan Card with Photograph. (Only for Indian Bidder)		
10	GST Registration Certificate as applicable		
11	Import / Export license issued by competent authority (if applicable)		
12	Power of Attorney to sign the tender		
13	Irrevocable Undertaking		
14	Special Annexure for GST		