

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI

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

CSR-KEMH/EoI/1026

date: 14/03/2024

Expression of Interest.

Subject- To invite Expression of Interest from Original Equipment Manufacturer /Vendor / Distributor to supply of High End Surgical Operating Microscope at Neurosurgery 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 **High End Surgical Operating Microscope at Neurosurgery Dept of KEM Hospital.**

For purchase of the above equipment, it is proposed to invite “Expression of Interest” 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 **14.03.2024 to 21.03.2024** in working hours and all proposals with the required documents should be submitted on or before **21.03.2024 (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 a 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 High End Surgical Operating Microscope
At Neurosurgery Dept of KEM Hospital**

	Description
Name of Equipment	High End Surgical Operating Microscope at Neurosurgery Dept of KEM Hospital
Specification of Equipment	<p>Working distance: 200-500 mm continuously variable through motorized multifocal lens, activated through Handgrips and through touch screen control panel. Should have manually adjustable override.</p> <p>Magnification range: Magnification range up to 18x or better without using additional magnification multiplier / changer activated through Handgrips and through touch screen control panel. Should be possible to adjust the speed of the motorized fine focus through touch screen. Should have manually adjustable override.</p> <p>Focusing: Motorized via multifocal lens activated through Handgrips and through touch screen control panel. Should be possible to adjust the speed of the motorized fine focus through touch screen. Should have manually adjustable override.</p> <p>Eyepieces: Pair of high eyes point wide field push-in eyepieces 12.5x magnification with eye guards and magnetic locks, diopter setting from -8D to +5D, also suitable for spectacles wearers</p> <p>Light Source: Should have maintenance-free LED illumination providing Xenon like intensities at 5500K or more with lamp lifetime of 40,000 working hours or more offering natural colors for an optimal visualization of the surgical field.</p> <p>Light Threshold Mechanism: Should have threshold mechanism in order to protect tissue from inadvertent light exposure the system must offer respective safety mechanisms system information when exceeding individual light threshold.</p>

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	<p>Automated Illumination Field Diameter:</p> <p>Should have built in automatic zoom-synchronized illumination field diameter, with manual override and reset feature. Automatic Iris Control or Auto Iris (critical)</p> <p>Automated illumination control:</p> <p>Should have Automated Illumination which limits the maximum light intensity for the selected working distance. Brightness control should be linked to working distance. Illumination also can be controlled by hand switch or foot switch.</p> <p>Handgrips:</p> <p>The system has adjustable, ergonomic handgrips, symmetrical and attached clearly above the bottom edge of microscope, multifunctional key assignment with minimum 4 freely programmable keys each side and a joystick for software guided balancing and should be independent programmable (left / right)</p> <p>Depth Of Field:</p> <p>Activates the depth of field for either High depth of field with less light and lower image resolution Or Low depth of field with more light and high image resolution. Increased Depth of Field in the region of interest reduces the need for refocusing in the anatomy.</p> <p>Binocular tube:</p> <p>0–180-degree Tilttable binocular tube for Main Surgeon with wide field push-in eyepieces 12.5x magnification with eye guards and magnetic locks, diopter setting from -8D to +5D, also suitable for spectacles wearers.</p> <p>Software Guided Balancing:</p> <p>The system must provide software guided balancing of all system axes without any manual knob rotation for axis adjustments.</p> <p>Axis Dampening:</p> <p>Should provide motors on all system axis to avoid the vibrational dampening effect and ensuring rock-solid stability. Enabling surgeon to have complete and steady focus.</p>
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<p>Automatic Draping:</p> <p>Microscope should be able to allow activating drape suction facilitated by an automatic air vacuum for sterile, obstruction free microscope handling and for easier usage of drape to maintain sterility during surgery.</p> <p>3-CMOS HD Camera:</p> <p>Fully Integrated 3-CMOSHD 1080pVideo Camera (Camera not Visible from outside) So that maximum resolution will display & record. Should Include ODU-HDMI cable (5m) and HD-SDI cable (10m)</p> <p>Full HD Medical Display:</p> <p>Full HD Medical grade touch screen display system attached with the microscope system.</p> <p>(No External Monitor /detachable monitor will be acceptable). The display should show the number of videos and images taken and start / stop of the video recording.</p> <p>HD Recording:</p> <p>Full HD 1080p inbuilt Integrated Video Recording system with integrated HDD of minimum 1TB and external HDD of minimum 1TB.</p> <p>Beam Splitter:</p> <p>Should have Integrated Beam Splitter (not Visible from outside) for future upgradation possibility to attach Side Observation tubes.</p> <p>Face to Face observer:</p> <p>Observation face to face with stereo bridge and 0-180 degree Tilttable binocular tube for assistant Surgeon with wide field push-in eyepieces 12.5x magnification with eye guards and magnetic locks, diopter setting from -8D to +5D, also suitable for spectacles wearers.</p> <p>Tumor Fluorescence:</p> <p>Should have integrated sodium fluorescein filter where fluorescent tissue is emphasized in a greenish-yellow color, while non fluorescent anatomy appears in almost natural-like colors. Fluorescence visualization provides excitation light within a wavelength range from 460 to 500 nm and an observation within a wavelength range from 540 to 690 nm for detecting tumor fluorescence.</p>

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	<p>Manual Override:</p> <p>Should have manual adjustment with separate knob to adjust Zoom, Focus and light aperture manually during emergency or malfunction of microscope.</p> <p>User Programing:</p> <p>Programming for starting illumination, Magnification, working distance, zoom speed & focus speed for at least 8-9 different users.</p> <p>Wireless Network Package:</p> <p>Microscope should enable WLAN and WIFI Hot Spot functionality for wireless shared network data exchange and WIFI connection to mobile devices. Also, should allow for network access to data via web browser</p> <p>Remote Access:</p> <p>The system must provide an interface and a function for fast internet remote diagnosis to be operated via the central touchscreen user interface.</p> <p>Online UPS :</p> <ul style="list-style-type: none">- Should be supplied with 2KV_a Online UPS so that all the disturbances of supply such as blackout, brownouts, spikes etc are absent in the output and voltage regulation is better. <p>1. General requirement -</p> <ul style="list-style-type: none">• 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.• 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
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	<ul style="list-style-type: none">• It should be CE certificate by European notified body under MDD along with Declaration of Conformity and 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.• <u>Or</u> European Representative registered with EEA (European Economic area) Competent authority appointed by firm is required.• <u>Or</u> 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> 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>	 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 period

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	<p>6) Training to Medical Electronics Cell Engineers from servicing point of view and to user department from operating point of view is compulsory.</p> <p>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.</p>
<u>Procedure for the opening of EOI:</u>	<p>Packet-‘1’ (Administrative & Technical) will be opened in front of CSR Committee as per schedule decided by committee.</p> <p>Packet- ‘2’(Commercial Packet) will be opened only if the administrative & technical offer is acceptable. In case the administrative and technical offer in Packet ‘1’ is found not acceptable or found incomplete, then Packet -‘2’ (Commercial Packet) will not be opened and offer will be kept out of consideration.</p> <p>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.</p>
<u>Delivery & Installation Period</u>	<p>1) Supplier should give free delivery at user department of KEM Hospital within 60 days from the date of receipt of purchase order.</p> <p>2) Installation and commissioning of equipment shall be done within 15 days from the delivery of the equipment.</p>
<u>Payment Conditions</u>	<p>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.</p> <p>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).</p>
<p>All the above conditions should be strictly adhered to failing which the tender will be treated</p>	

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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.

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 Neurosurgery, KEM Hospital, Parel, Mumbai - 400012.

**Sd/
Head CSR
GSMC & KEMH**

**Sd/
Head of Social Service Dept
GSMC & KEMH**

**Sd/
HOD, Dept of Neurosurgery
K.E.M. Hospital**

**Sd/
Dean
GSMC & KEMH**

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

Sr No	Administrative Documents	Sr. No.	Technical Documents
1	EOI Form	1	Technical Offer
2	Tri party agreement	2	List of Consumables (Applicable in Warrenty & CMC Period)
3	EOI Form Fee Receipt	3	Comparison of EOI 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 EOI 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		