

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI

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

CSR-KEMH/Sealed Tender/534

date: 25/09/2024

Procurement through Sealed Tender

Subject- To invite Sealed Tender from Original Equipment Manufacturer /Vendor / Distributor to supply Double Dome High end OT Light at for Neurosurgery DEPARTMENT 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 **Double Dome High end OT Light to the Dept. of Neurosurgery at 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 **28/09/2024 to 07/10/2024** in working hours a ball proposal with the required documents should be submitted on or before **07/10/2024 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.

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI

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

**Specifications for Double Dome High end OT Light
For Neurosurgery. Dept. of KEM Hospital**

	Description
Name of Equipment	<u>Double Dome High end OT Light For Neurosurgery at KEM Hospital.</u>
Specification of Equipment	<p>The light must be Horizontal movable, height adjustable spring arm (in each position self-fixing), two cardanic suspension arms and closed coverage type, asymmetric weight balanced light head in fully cardanic Suspension.</p> <p>The light must be Smart and compact, aerodynamic light head shape for optimized laminar air flow conditions.</p> <p>Should have Water- and dust protected light head with extremely high splash guard grade of IP 42.</p> <p>Light must be emitting surface made of hardened safety gals for highest durability against cleaning- and disinfection agents.</p> <p>Should have Ergonomic designed sterilisable handle.</p> <p>Light head must be convex with flat surfaces and smooth shape transitions. Optimized heat management.</p> <p>Should have optically based triple Lens System in Matrix-Technology enables highest values in deep cavity illumination.</p> <p>Should have Integrated microprocessor and sensor controlled shadow management guarantees best possible Shadow dilution.</p> <p>Must be the illuminated field is variable in shape and diameter and offers a steeples adaption to the surgical field.</p> <p>Must be the light adjustments is able by using the central sterile handle as well as the control panel.</p> <p>Should have quickly and easy positioning by unsterile persons the light head offers several handle elements. These are airflow optimized integrated in the shape of the light body on order to avoid turbulences.</p> <p>Must be the Support arm made of laminar flow optimized extruded Aluminium-sheath.</p> <p>The Horizontal arm length for double dome must be Min. 975mm & 850mm.</p> <p>The Spring arm length for double dome must be Min. 910 mm.</p> <p>Height adjustment of light head must be Min.1100 mm.</p>

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

Motional radius must be Min.2335 mm.

Light should have rotatable stop less at all joints.

Should have Free height below sterile handle
Min. 2.000 mm.

Light should have Protection grade of support system IP 30.

LIGHT HEAD

Light head must be closed without outer connection parts.

Light head should have high splash protection grade of IP 42.

Light head underside surface must be a smooth surface in order to reduce turbulence in laminar flow.

Should have Minimum 2 Handles for Positioning of light head.

Handle elements must be integrated aerodynamically efficient in Light head shape.

Should have Minimum 2 operating functions at the central sterile handle.

Up to four times central wave unit (4 Positions at the central axis).

Protection grade of light head should have min. IP42.

Light head must be Powder coated impact resistant plastic housing with a fine structured surface.

Light head should have splash proof grade of IP 42.

Light support arm system must be Laminar Flow optimized low weight Aluminium profile with an oval cross-section.

LOWER GLASS ELEMENT

Light head must be Scratch- and cleaning agent resistant, high stabile hardened safety glass.

LIGHT MANAGEMENT

Should be generating a high, cool, colour homogeny and high colour constant OR-field illumination there are a multiple LEDs in a special calculated 3D-Matrix arranged.

Should have triple Lens systems guarantees a illumination of extremely small light fields as well as very large light field diameters.

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

Light head must be Special high performance LED-systems offers a natural and daylight oriented colour reproduction with a high possible colour rendering index.

At 1m distance a illumination must be 160.000 Lux at field diameter of 14 cm.

Due to the integrated logic control the adjusted illumination grade is constant over all field diameter adjustments.

TECHNICAL REQUIREMENTS

Colour temperature must be intraoperative adjustable between 3000 K to 5500 K

Should have More than 132 LED Bulbs in each dome integrated into the LED module.

Colour temperature must be adjustable infinitely.

Should have High Performance Lighting with ideal focusing and overlapping of light beams offers a constant illumination power in all adjustments of field diameters.

Max. Illumination power E_c in a distance of 1m at a field size of $d_{10\text{ up}}$ to 25 cm.

Should have Focusable light field 18-27 cm.

Should have Integrated Dimming.
160,000 Lux must be without Boost-Mode.

Should have Multifunction handle, sterilisable, for controlling of dimming and light field adjustment.
Luminous efficacy must be $\geq 320\text{lm/Watt}$.

Colour rendering index must be $R_a \geq 99$.

Colour rendering index must be $R_9 \geq 99$.

Colour rendering index must be $R_{13} \geq 99$.

Should have Light field diameter larger than 250 mm adjustable.

Should have 160k lux at Light field diameter of $> 250\text{ mm}$.

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI

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

	<p>Should have constant illumination in Lux in case of changing the light field diameter.</p> <p>Should have Light field adjustment without mechanical devices.</p> <p>Should have optional touch screen panel for Controlling of all light functions.</p> <p>Touch-control panel must be control up to 4 Light system and 2 camera systems individually.</p> <p>Should have Central adaption of Camera.</p> <p>Average expected lifetime of LEDs must be 60,000 hours.</p> <p>Power consumption of light head Must be max. 40 W.</p> <p>Light head Weight of each dome must be < 15 kg for easy and safe positioning.</p> <p>Spring arm should have following adjustment 45 deg UP and 50 deg Down Spring arm should have 360 deg rotation without obstruction. Cardiac suspension arm should have unrestricted circular movement Should have option to change colour temperature via sterile handle Should have option of setting user defined setting & name of the user Colour temperature variation should be available in infinite mode from 3000Kelvin to 5500Kelvin2z It should have European CE Conformity</p> <p>The Light standards and certification must be IEC 60601-1:2005 (Third Edition) + CORR. 1:2006 + CORR. 2:2007 + A1:2012 IEC 60601-1-2:2014 IEC 60601-2-41:2009+A1:2013. It Should Be Supply with 3 years Warranty CMC Rate would be @5% for 5 Years</p> <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
--	---

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI

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

	<ul style="list-style-type: none">• 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 manufacturer principal• Power supply- 230 V\pm 10%, 10.50 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.• Typicalizations:<ul style="list-style-type: none">Operation Temperature : 40°CStorage Temperature : 60°CRelative Humidity : Up to 90% non -Condensing
--	---

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI

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

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 submitting 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 6) 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.

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI

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

<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 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. 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. 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.	

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI

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

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 at KEM Hospital., KEM Hospital, Parel, Mumbai - 400012.

**SD/-
Head - CSR
GSMC & KEMH**

**SD/-
HoD, Social Service Dept
GSMC & KEMH**

**SD/
HOD, Dept. of Neurosurgery.
GSMC & KEMH**

**SD/
Administrative Executive Officer
GSMC & KEMH**

**SD/
Dy. Dean
GSMC & KEMH**

**SD/
Dean
GSMC & KEMH**

BRIHANMUMBAI MUNICIPAL CORPORATION OF GREATER MUMBAI

**King Edward VII Memorial Hospital,
CSR Wing, Social Service Department,
Parel, Mumbai 40012**

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		