

MUMBAI HOUSING AND AREA DEVELOPMENT BOARD
A REGIONAL UNIT OF
(MAHARASHTRA HOUSING AND AREA DEVELOPMENT AUTHORITY)

Tel no.- 022-66405220, E-mail eelect.mhada@gmail.com

Ref. No.- EE/Elect/M.B./Quotation/ **EF-1551** /2024

Date- **18/07/2024**

Notice to Contractor for Rate Call only

Executive Engineer / Electrical Division / Mumbai Housing and Area Development Board, Room no.368, 2nd Floor, Grihnrman Bhavan, Kalanagar, Bandra (East), Mumbai-400051 is inviting Item rates for estimation of Work **related to Beautification of Powai Lake by developing Light and Sound Show in form of Musical Fountain at Lake Shore situated at Ganesh Ghat, S-ward, Powai Mumbai** from OEM's/ Authorized Dealers/ Experienced Agency/ Electrical Contractors having at least three year experience in supplying of following items. Sealed quotation will be received in the above office on or before 25/07/2024 up to 3:00 PM. and opened on the Next date for the Items mentioned below—

Sr.No.	DESCRIPTION OF ITEM	PER SET/JOB/NO.	Rate in Figures	Rate in Words
1	SITC of DMX Converter			
2	SITC of Sound System inclusive of Main Speaker - 3 Nos., Surround Speaker : 12 Nos., Subwoofer: 2 Nos., Amplifier - 4 Nos., Audio DSP: 1 No., Audio Interface - 1 Nos.,			
3	SITC of Pneumatic Jet Nozzle (RPJ 45)			
4	SITC of LED Light Fixture 30 – 40W			
5	SITC of Architectural 5M Post Top Pole			


For any queries contact below officers:

Mandar Naik, Dy. Engg, Electrical division :- 9821976547

Please Visit www.mhada.gov.in for detailed item description

Terms and Conditions:-

1. Agency shall submit necessary certifications of the items from competent authority license.
2. Agency shall provide the rates considering the delivery of the item on-site including all necessary charges and excluding GST.
3. Interested agencies shall contact above mentioned office for any clarification and collect the available specification from this office during working hours from 09:45 am to 06.15 pm if required.
4. Agency has to submit the duly filled quotations along with required documents in sealed envelope.
5. Executive Engineer / Electrical Division / Mumbai Housing & Area Development Board reserve the right to accept or reject any or all rates without assigning any reason.
6. This expression of interest does not guarantee that the agency will get the work.


Executive Engineer,
Electrical Division,
Mumbai Board

Name of work:- Beautification of Powai Lake by developing Light Sound show in the form of Musical Fountain on a Lake Shore situated at Ganesh Ghat, S Ward, Powai, Mumbai – 400076.

SCHEDULE - B

Sr. No.	DESCRIPTION OF ITEM	PER SET/JOB /NO.	Rate in Figures	Rate in Words
1	SITC DMX Converter with USB 2.0 support with status LED 1500 V full isolation RDM enabled + Input or output mode internal frame buffer for stable DMX generation supports a huge range of commercial and free software with 5 years comprehensive warranty.			
2	<p>Main Speaker - 3 Nos</p> <p>Supply, installation, testing & Commissioning of Trapezoidal arrayable Point Source loudspeaker. The loudspeaker shall meet the following criteria: Single 14" LF driver or dual 10-inch with multiple MF/HF drivers (More than 4), Bi-amplified operation with Individual Module free field Frequency Range (-10dB) of 55Hz - 18kHz or better & Continuous Power Handling of >= 750W LF + 150W MF/HF. The Loudspeaker module shall have a Max. SPL (Peak) of MF/HF >= 130 or better. It should have Horizontal near dispersion pattern of 90° or better, vertical dispersion of the array shall be 20-30 degrees vertical. The Loudspeaker shall have a weather rating of IP55. Shall be supplied with custom enclosure as per directions of EIC with 5 years comprehensive warranty.</p> <p>Surround Speaker : 12 Nos.</p> <p>SITC of Two-way Small Format high SPL IP55 rated (as per IEC 60529) all weather surface mount loudspeaker. The loudspeaker shall meet the following performance criteria: Frequency Range (-10 dB) of 80 Hz - 18 kHz or better; Nominal Dispersion : 90°H x 60°V (rotatable Horn); Power handling of 1000W peak or more; Sensitivity : 93 dB; Max SPL : 122dB Peak; Nominal impedance of 8 ohms. The loudspeaker system shall be comprised of a Powdercoated finish stainless steel grille with Two-part spray polyurea coating Enclosure; Single 8-inch woofer; Single 2-inch voice coil high-frequency compression driver; U bracket shall be included with 5 years comprehensive warranty.</p> <p>Subwoofer: 2 Nos.</p> <p>SITC of a single 18" subwoofer. The loudspeaker shall meet the following criteria: usable Frequency Range (-10 dB) of 28 Hz - 300Hz or better. It should have an axial Sensitivity of >= 92dB (1W/1m) or more delivering 100W free field Max. Calculated SPL(peak) of >=127 db or better. The loudspeaker should have a nominal impedance: 4 ohm or more and continuous Power Handling of 1000W or more; Complete with installation with custom weather rated enclosure approved by EIC as per the site requirement with 5 years comprehensive warranty.</p> <p>Amplifier - 4 Nos.</p> <p>SITC of 4 channel power amplifier with total of 4800W power and power sharing feature for Asymmetric power allocation. Shall support Dante Digital as well as Analog line level audio inputs and GPIO connections for muting. Power output: Upto 4x1200W @ 4 and 8 ohms, upto 4x1500W @ 2ohms; SNR: 110dB(A) or better; THD+N: <0.1 %; Crosstalk (1 kHz): -70dB or better; A/D and D/A converters: 24-bit, 48 kHz; Sample rate converter: 24-bit, 44.1 kHz - 192 kHz; Input-to-output signal routing, 4 x 4 matrix; signal processing: Matrix mixer, 5-band PEQ, array EQ, band pass, Spkr EQ, limiter, delays ; Input impedance : 20 kΩ; Status indicators: metering LEDs, system status LEDs, power status LEDs; Protections: Thermal, excess high/low AC mains voltage, DC, high-frequency, output short-circuit, inrush current, clip, peak, etc.; Cooling system: variable-speed fan front-to-back airflow with 5 years comprehensive warranty.</p> <p>Audio DSP: 1 No.</p> <p>SITC of Digital Audio Processor with at least 12 Mic/Line inputs & 8 analog outputs, 24 Bit A-D and D-A Converters; Sampling Rate : 48 kHz; THD : < 0.002 %; Channel Separation (Crosstalk) : < 108 dB; Frequency Response 20 Hz - 20 kHz; Signal-to-Noise Ratio 90 dB; Dynamic Range > 115 dB; 5 Control Inputs and Outputs; RS-232 and Ethernet Port for third party Control and Monitoring; 32X32 or more Bidirectional DANTE Audio Networking ports, Shall include USB Audio as standard Feature, inbuilt DSP features like Conference room Routers, Input Equalizers, Router, Band Pass filter, Output Equalizer, Delay, Limiters, gates , Source selectors etc. Shall Support at least 15 remote Zone controllers with 5 years comprehensive warranty.</p> <p>Audio Interface - 1 Nos.</p> <p>SITC of Surround decoder PC/HDMI to analog multichannel output card for media server. Including Supply installation testing and commissioning of all type of accessories to make the system complete shall also include all necessary cables including Armoured direct burial speaker cable, between 2.5-4 Sqmm as needed for the speakers along with installation charges with 5 years comprehensive warranty.</p>			
3	<p>Pneumatic Jet Nozzle (RPJ 45) - SITC of compressed air driven Pneumatic Jet nozzle in SS construction designed for a jet height of approx 40 to 45m as per following or similar specifications with 5 years comprehensive warranty.</p> <p>Material of</p> <p>Constroction :</p> <p>Nozzle SS 304</p> <p>Air Tank SS 304</p> <p>Frame SS 304</p> <p>Dimensions (in mm) 630 x 330 x 830</p> <p>Nozzle Dia 30 mm</p> <p>Air Intake DN 15</p> <p>Nett Weight 40 Kg</p> <p>Voltage Solenoid 220V AC</p> <p>Control DMX</p> <p>Medium Fresh Water</p> <p>Protection IP 65</p> <p>Installation Above water</p>			

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SCHEDULE - B

Sr. No.	DESCRIPTION OF ITEM	PER SET/JOB /NO.	Rate in Figures	Rate in Words
4	<p>SITC of LIGHT SIDE MOUNTING FIXTURE - 30-40W, Power Module LED, 3000K, IP 66</p> <p>Upper part in circular shape & Lower part in "V" shape, both are in single piece made of die-cast aluminum using pressure die casting process. manufacturer name/logo should be embossed on the body. Prismatic/frosted screen in Flat tempered glass. Pure polyester powder coating in customised colour Metallaic Grey. Silicone gasket ensures the IP Rating - IP 66. Height – 500mm, Diameter - 420mm, Weight - 8Kgs., Area Exposed to Wind(S) - 0.08 m2</p> <p>Power LED Module with Company /brand name printed on PCB with the metal core plate. LED Chips of CREE/NICHIA/OSRAM/LUMILEDS or similar make - same should be supported by LED manufacturer's tech sheet . Colour Rendering Index: Ra > 70. Electronic Power Supply for LED Module, which offers Protection against Short Circuit, Over- Voltage & Over- Current, with in-built surge protection ok 4kV minimum (an additional surge protection device of 10kV also provided in-built the fixture). Optics with refractive lens in PMMA which should offer all the Type II,III,IV & V distributions. LED Lifetime >1,00,000hours@Ts 85°C. LM80 report from LED Manufacturer should be submitted. Safety test report as per IEC 60598 from UL/UL authorised/Intertek Lab should be submitted. LM79 report also should be submitted from UL/UL Authorised/Intertek Laboratory. BIS certificate with brand same as manufacturer also should be submitted. Sample should be submitted for approval from concerned engineer-in charge with 5 years comprehensive warranty.</p>			
5	<p>SITC of ARCHITECTURAL 5M POST TOP POLE</p> <p>5M height post top Pole Made of steel pipe sections 89mm dia.. Entire pole shall be made to provide pleasing aesthetics as approved by Concerned Engineer in-charge. After Fabrication, Entire Pole should be shot blasted for the effective adhesion of 3layer coating so as to avoid the corrosion. The pole should be provided with an inbuilt junction box with 1No. 32A Heavy Duty Stud type connector and 1No. 6A SP MCB, at the bottom - the inbuilt box should have a flush door of suitable size. The pole to be provided with suitable size base plate. This base plate along with foundation bolts of suitable size to be used for ensuring firm grouting into the specially designed RCC foundation. wind pressure calculation as per IS 875(part-3) & structural calculation report as per EN40 should be submitted to verify the pole design. Pole & it's parts are painted in 3 layer coating(coating thickness-100 microns minimum) in which 1st layer with etch primer, 2nd layer with epoxy primer & 3rd final layer with PU paint - customised colour Metallaic Grey with 5 years comprehensive warranty.</p>			


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