



सुखे कुतुम्हणे
ONE EARTH • ONE FAMILY • ONE FUTURE



Mechanical Engineering Department
Electrical Division, Administrative
Building, Panambur,
Mangalore-575010, Karnataka
Phone- 0824-2887749,

नव मंगलूर पत्तन प्राधिकरण
New Mangalore Port Authority
पत्तन.पोत परिवहन और जलमार्ग मंत्रालय, भारत सरकार
Ministry of Ports, Shipping & Waterways, Govt. of India

यांत्रिक अभियांत्रिकी विभाग,
विद्युत प्रभाग, प्रशासनिक भवन
पनम्बूर, मैंगलोर - ५७५ ०१०, कर्नाटक
दूरभाष : 0824-2887749

सं./No. EE(E)/ESD-I/B/2022-23/03/25

दिनांक/Date: 04.05.2023

To,

Sir,

Sub: - NMPA-EE (E) - "Providing Video Conference System at CVO chamber" - Quotation invited - Reg.

Quotation in sealed covers superscribed as "Providing Video Conference System at CVO chamber" invited in accordance with the instructions to the Tender Terms & Conditions as detailed below. The quotation may please be submitted addressed to "The Executive Engineer (Elec.), Electrical Division, Administration Building, New Mangalore Port Authority, Panambur, Mangalore-575010" not later than **03:00 PM on or before 10.05.2023**. Quotation will be opened on the same day at 3.30 PM in the presence of the tenderers who wish to be present.


Sl. No	Description of Work	Qty	Rate (Rs.)	Rate in words	Amount (Rs.)
1.	Supply and installation of complete Audio/Video Conference solution comprising of 55" professional LED display, All in one sound bar with integrated camera, Mic and speaker, Mini PC/CPU , Wireless Keyboard and mouse and required accessories i.e. HDMI and other cables, connectors etc. complete. Please refer the detailed technical specifications	1 Set			
Total (Excluding GST)					

Rupees.....only (excluding GST)

TERMS & CONDITIONS:

1. The rate quoted for the items shall be firm and F.O.R destination basis. Please note that NMPA is not issuing any concessional C or D forms.
2. Applicable GST will be paid as extra as per actual.
3. The specification of the proposed items is enclosed herewith as per Annexure-1.
4. The time allowed for completion of work is **15 days** from the date of issue of work order.
5. Please note that no advance payment will be made. But payment will be made within 15 days after satisfactory completion of work and on receipt of firm bill.

6. The Tenderer may visit the work site and get acquainted himself with the site conditions, nature of work involved before tendering. Any assistance, in this regard will be provided by the department under prior appointment and the undersigned may be contacted for the purpose.
7. The Tenderer shall be responsible for making good of all the damages done during the work and has to employ skilled & competent workers for carrying out the work.
8. The shortlisted bidder shall have to submit the offered make & models with datasheet for approval before execution of the work.
9. The Tenderer shall be responsible for taking precautionary measures for the safety of the workman working under them and the responsibility arising due to any mishap during the execution of work, the payment of any compensation etc., lies entirely on the part of the Contractor.
10. No tools, plant, Labour, equipment, transport, etc., required for the work will be supplied departmentally and contractor has to make his own arrangements.
11. The Tenderers should quote their rates in figures as well as in words the amount tendered by them. The amount per each item should be worked out and requisite total should be given. All rates shall be quoted in proper form in the tender schedule enclosed. The rates quoted should be valid for **90 days**.
12. The Items to be supplied should conform to the specifications and standards of IS & **warranty period of 12 months from the date of completion of work** and warranty certificates to be submitted for all the items.
13. The acceptance of the tender will rest with competent authority of NMPA who does not bind himself to accept the lowest tender and reserves to himself the authority to reject any or all of the tenders received without assigning any reason.
14. If the Tenderer after award of work/contract fail to execute the work in the specified allotted period, then the Tenderer may be debarred for a period of three (3) years from participating for tenders at New Mangalore Port Authority.
15. **LIQUIDATED DAMAGES:**
In case of delay in completion of the contract, liquidated damages (L.D) may be levied at the rate of 0.5% of the contract price plus applicable GST per week of delay, or part thereof subject to a maximum of 10 per cent of the contract price.


Executive Engineer (E) 4/5/23
Electrical Division, NMPA

Seal & Signature of Bidder

SCOPE OF WORK AND SPECIFICATIONS

1. **Scope of Work:** The scope of work is Supply, Installation, Testing & Commissioning of the Video Conference solution comprising 55" display with All in one Sound bar with integrated camera, Mic and speaker, CPU/mini PC, Wireless Keyboard and mouse and required accessories i.e. HDMI cables, connectors etc. complete.

2. **Technical Specifications :**

A. 55" Display:

Sl. No.	Parameter	Specifications
1.	Size	55" (Inch)
2.	Resolution	3840 X 2160 (16:9) UHD or better
3.	Brightness	400 nits or better
4.	Input	HDMI 2.0 (3) or more, USB 2.0 (2) or more
5.	Output	Stereo Mini Jack
6.	Internal Storage	8 GB or better
7.	Wall Mount (Telescopic)	Yes
8.	In built Wi-fi and Bluetooth	Yes
9.	Refresh Rate	60Hz or better
10.	Dynamic Contrast Ratio (Dynamic MCI (Hz))	1,000,000:1 or better
11.	Static (Panel) Contrast Ratio	1300:1 or better
12.	Response Time(G to G, ms)	14 or better
13.	Backlight Unit Type	Direct
	Features* *(These are minimum specifications, bidder can propose better specifications)	Hotel Mode / PDM / Installer Menu, One Channel Map, IP Channel Manager, External Speaker Out (Int Variable/Fixed, 3.5mm, Stereo, Single ended Type(GND,L+,R+), 2W+2W with 8Ω) Web Browser, SDP Server compatibility, Mood Display ,Soft AP, WiFi (Version) (802.11ac), Screen Share (Miracast), Smart Share, Bluetooth Audio Playback, HDMI-ARC (ARC, HDMI2), Fail Over, Play Via URL, NTP Server Setting

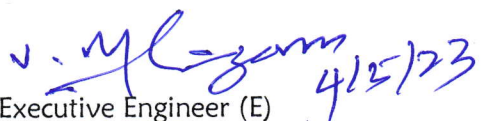
B. All in one sound bar with mic, speaker and camera:

CAMERA

- Full HD 1080p video calling (up to 1920 x 1080 pixels); 720p HD video calling (up to 1280 x 720 pixels) with supported clients or better specifications
- H.264 UVC 1.5 with Scalable Video Coding (SVC) or better specifications
- Supports H.264 SVC 1080p, along with optimizations for best call performance in single or multiparty HD video
- **Field of View**
 - Diagonal: 90° or better
 - Horizontal: 82.1° or better
 - Vertical: 52.2° or better
- 4 X digital zoom or better in Full HD for clear image in various lighting environments (even low light)
Digital pan, tilt and zoom from remote control
- **SPEAKERPHONE**
 - Integrated full duplex speakerphone with echo and noise cancellation
 - 360o wideband audio with 12-foot diameter range Bluetooth technology
 - Speakerphone streaming, mute, hold, and Bluetooth wireless pairing
 - Controls for call answer/end, volume, mute
- **Microphones (Tx)**
 - Two or more omni-directional microphones supporting 12-ft diameter range or better
 - Frequency response: 100Hz – 16kHz or better specifications
 - Sensitivity: -34dB +/-3dB or better specifications
 - Distortion: <1% @ 1KHz at 65dB or better specifications
- **Speakers (Rx)**
 - Frequency response: 140Hz – 16KHz or better specifications
 - Sensitivity: 89dB SPL +/-3dB at 1W/0.5M or better specifications
 - Max output: 91.5dB SPL at 0.5M or better specifications
 - Distortion: <5% from 200Hz or better specifications
- **REMOTE CONTROL**
 - IR 10-ft (3 m) range or better
- **GENERAL SPECIFICATIONS**
 - Plug-and-play USB connectivity Certified for Skype, Teams, Zoom, Google Meet, Cisco Jabber® and WebEx etc. And other video conferencing, recording, and broadcasting applications that support USB cameras.

C. Mini PC/CPU

- Mini PC/CPU 8GB DDR4 256GB SSD with Genuine Windows 11, 4K HDMI, Multiple display support, Display, 2.4G/5G Wi-Fi, BT4.2 or overall better specifications. This unit is excluding Display.


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