

UNIVERSITY OF KERALA

Tender Document

for

Supply, Installation, Testing and Commissioning of interactive displays and PTZ cameras for UGC-Human Resource Development Centre, University of Kerala, Kariavattom Campus

Bidder Details

| Registered Name and Address of bidder | |
|---------------------------------------|--|
| Address for communication | |
| Other contact information | |
| Telephone Office : | |
| Mobile : | |
| Email : | |
| FAX : | |

1. <u>Tender Notice</u>

Sealed quotations are invited from reputed firms for Supply, Installation, Testing and Commissioning of interactive displays (3No.) and PTZ cameras (6no.) for UGC-Human Resource Development Centre, University of Kerala, Kariavattom Campus as per the minimum specification, scope of work and terms of condition mentioned in the document.

| 1. | Name of work /Items | Supply and Installation of interactive displays (3No.) and PTZ cameras (6no.) for UGC-Human Resource Development Centre, University of Kerala, Kariavattom Campus |
|----|---|---|
| 2. | Tender No. | No. 28095/Ad B IV A/UGC-HRDC/IDS_PTZCamera/2023 |
| 3. | Cost of tender form/ Tender Submission Fee | Rs. 2,500/- |
| 4. | Earnest Money Deposit | 10,000/- |
| 5. | Period of Completion | 45 days |
| 6. | Start Date of issue | 27.07.2023 |
| 7. | Last Date of receipt of Tender/ Bid closing | 14.08.2023 5.00 P.M. |
| 8. | Date and time of Opening of tender | 16.08.2023 10 A.M. |

2. <u>General Tender Terms & Conditions for technical verification</u>

1. Bidders who are black listed by State / Central Government departments and organizations are not eligible to participate in this tender and such bids will be summarily rejected.

2. The bidder shall be OEM or Distributor of the Schedule of Items quoted. In the case of Distributor / Dealer the bidder should attach an <u>authorization letter from OEM for</u> <u>Interactive display and PTZ Camera to participate in the tender.</u>

3. The bidder should have registered office/Own service centre in Kerala preferably in Thiruvananthapuram.

- 4. Compliance statement should be submitted
- 5. All equipments should be from a reputed OEM of non Chinese origin as per MHA guide lines
- 6. Detailed equipment data sheet should be submitted
- 7. All the items must have a warranty period of 3 years

3. <u>Technical Specification and compliance statement</u>

1. Interactive Display- 3No.

| SL NO | Parameter | Specification | Compliance (Yes/No) |
|----------|-----------------|---|---------------------|
| 1 | Panel Size: | 86" or better | |
| 2 | Panel Type: | TFT LCD Module with DLED Backlight.IPS or better | |
| 4 | Aspect Ratio: | 16:9 | |
| 5 | Resolution: | UHD 3840x2160(Pixels) | |
| 7 | Brightness: | 350 nits (typ.) or better | |
| 8 | Contrast Ratio: | 4000:1 or better | |
| 9 | Response Time: | 8ms or better | |
| 10 | Viewing Angles: | H=178 <u>+</u> 5, V=178 <u>+</u> 5 typ. | |
| 11 | Backlight Life: | 50,000 Hours (Min) | |
| 12 | Hardness | 9H Anti-glare coating or better | |
| 13 | Orientation: | Landscape | |
| | PLATFORM | | |
| 14 | Processor: | Quad-core or better | |

| 15 | RAM: | Minimum 4GB DDR4 | |
|----|---------------------------------------|--|--|
| 16 | Storage: | Minimum 32 GB | |
| | ТОИСН | | |
| 17 | Type/ Tech: | Ultra Fine Touch Technology/Equivalent | |
| 18 | Touch Point: | Technology/Equivalent Minimum 20 points touch, 10 points writing | |
| | INPUT | | |
| 19 | HDMI: | HDMI 2.0 x 2 (3840x2160 @60Hz) or more | |
| 20 | RGB / VGA: | x1 or more | |
| 21 | Audio: | x1 or more | |
| 22 | RS232: | x1 or more | |
| 23 | OPS Slot | x1 | |
| 24 | WiFi: | x1 | |
| | OUTPUT | | |
| 25 | Audio: | x1 or better | |
| | LAN | | |
| 26 | RJ45: | x1 | |
| | USB | | |
| 27 | Type A: | USB2.0 Front x2; Side x2 | |
| 28 | Туре В: | x1 for HDMI/VGA touch | |
| | SPEAKERS | | |
| 29 | SPEAKERS | 10W x 2 | |
| | TOP CAMERA PLATE | | |
| 30 | 30 TOP CAMERA PLATE Yes EMBEDDED OS | | |
| | | | |
| 31 | EMBEDDED OS | Android 9 or higher | |
| | Features | | |
| 32 | | Flicker Free Display | |
| 33 | | Anti-glare coating | |
| 34 | Features | Dual Pen | |
| 35 | | IR Recognition | |
| 37 | Whiteboard software | Should work in Windows, Android, and Web & Google Classroom | |

PTZ Camera - 6No.

| Sl.No | Parameter | Specifications | Compliance (Yes/No) |
|-------|---------------|--|------------------------|
| 1 | Sensor | The camera sensor should be high quality 2MP HD CMOS sensor or better. | |
| 2 | White Balance | The camera should have an Option of Auto or Manual White Balance. | |
| 3 | Gain | The camera should have an auto Gain Control | |

| 4 | Back Light Compensation | The camera should have a selectable Back-light compensation | |
|----|----------------------------|--|--|
| 5 | Noise Reduction | 2D & 3D or better | |
| 6 | S/N ratio | The camera should have a S/N Ratio of >55db. | |
| 7 | Zoom | The camera should have a 12x optical zoom | |
| 8 | Interface | The camera should have a standard Video Output and should support HDMI/DVI Ports so that Camera can be integrated with standard End Points. Apart from that, It should be supplied with USB 3.0 based Capture card or should have native USB 3.0 support along with HDMI/DVI support so that it can also be connected with Software based VC Solution. | |
| 9 | RJ-45 | It should have at least 1 RJ-45 Port for IP Camera functions. | |
| 10 | Signal Support | The camera should support 1080p@60fps or better | |
| 12 | Presets | The camera should have at least 30 Position Presets or above | |
| 13 | Field Of View | The camera should have 72.5 Degree or better field of view | |
| 14 | Pan Range | The camera should have a Pan Rotation Angle of -170 degrees to +170 Degrees or better | |
| 15 | Tilt Range | The camera should have a Tilt Rotation Angle of -30 degrees to + 90 degrees or better | |
| 16 | Accessory | The camera should be supplied with IR remote control as an included accessory. Along with ceiling mount kit. | |

Additional items

| SL.No | Item | Specifications |
|-------|---------------------------------|---|
| 1 | External USB expansion device - | Type C, input X1 , 4 USB output, Type A/C |
| | 3 Nos | according to camera cable connection |
| 2 | Cables and Connectors as per | 4K HDMI |
| | actual length (Branded) – 3 set | Active USB 3.0 |

The above items are minimum set of equipment required. The Bidder shall install and integrate the entire devices with the existing audio system as well as to perform meeting through software based video conferencing such as google meet, zoom meeting. The camera inputs shall be integrated through software like OBS studio. The bidder can add additional devices required for the satisfactory completion of the project without additional cost. The bidder shall visit the site if needed.

4. <u>Terms and conditions</u>

- 1. The Bidder shall quote price in clear terms. The rates quoted must be inclusive of all taxes, cost of supply at site, warranty and installation charges etc...
- 2. The price should be quoted only in Indian rupees. The bid shall be typed and signed by the bidder.
- 3. All the documents mentioned shall be submitted without fail.
- 4. All the documents must be typed and clear.
- 5. **Validity:-** The Bid will be valid for 120 days from its date of opening. Further extension can be done by mutual consent.
- 6. **Delivery :-** The item should be delivered at UGC-HRDC, University of Kerala Kariavattom Campus.
- 7. **Installation and commissioning:-** The items shall be installed and commissioned at UGC-HRDC, University of Kerala, Kariavattom Campus.
- 8. **Period of Completion:-** The work shall be completed within a period 45 days from date of agreement.
- 9. **Payment:** The University will release the payment only after inspecting the work and satisfy that the supply is as per the requirements and on the basis of actual quantity executed. The payment will be made after successful completion of the supply on producing invoice in triplicate. The final bill shall be based on the actual quantity of supply made.
- 10. The undersigned reserves the right to reject or accept any or all the tenders received fully or partly without assigning any reason thereof.
- 11. General rules relating to purchase of materials/equipments will also applicable to this tender.

Sd/-

Date: 27.07.2023 Place : Palayam

University of Kerala