






## **KERALA STATE COUNCIL FOR CHILD WELFARE**

Thycaud, Thiruvananthapuram - 695014, Kerala, India  
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Website : [www.childwelfare.kerala.gov.in](http://www.childwelfare.kerala.gov.in)  
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**G. L. ARUN GOPI**  
General Secretary

childwelfarekeralaofficial    

No:4330/CDS/2024/KSCCW

Dated: 16.12.2024

### **Quotation Notice**

Sealed competitive quotations are invited on the interested integrators/contractors towards "Supply, Installation, Testing and Commissioning of Surveillance system at various locations with Centralized Video wall monitoring in Kerala State Council for Child Welfare."

The scope of work, specification, quantity of items, terms and conditions etc is enclosed herewith.

Sealed Quotations duly filled up along with EMD in the form of demand draft in favour of General Secretary, Kerala State Council for Child Welfare, Thycaud, TVPM may be submitted to General Secretary, Kerala State Council for Child Welfare, Thycaud, TVPM on or before 3 PM on 27.12.2024. The Quotations shall be opened on 28.12.2024 at 2PM in the presence of tenderers or their authorized representatives who like to be present. Kerala State Council for Child Welfare reserve the right to accept or reject any/all quotations without assigning any reason whatsoever. For more details visit [www.childwelfare.kerala.gov.in](http://www.childwelfare.kerala.gov.in).

**G.L.ARUN GOPI**  
General Secretary

To

**Daily newspapers/Website/Notice Board/Section**

## **TENDER TERMS**

### **1. TENDER FEE AND EMD**

A non-refundable tender Fee and EMD can be paid in the form of Demand Draft drawn in favour of the General Secretary, Kerala State Council for Child Welfare, TVPM.

“Separate DD should be submitted for Tender fee and EMD “

Cheques will not be accepted. EMD exemption is applicable for MSMEs and entities eligible as per Government of India guidelines, subject to submission of valid supporting documents. Bidders who fail to submit the Tender Fee and EMD will be summarily rejected.

### **2. SCOPE OF WORK**

To identify integrators / contractors for undertaking the work for “Supply, Installation, Testing and Commissioning of Surveillance system at various locations with Centralized Video wall monitoring in Kerala State Council for Child Welfare” as per the product specifications mentioned in the tender. The offices required to be installed the above system are spread across Kerala. Final quantity of items as per BOM will be based on the actual requirement at site.

### **4. ELIGIBILITY CRITERIA OF BIDDER**

- a) The Bidder should have a registered office in Kerala, for the last five years. (The proof should be submitted).
- b) The bidder should be either an Original Equipment Manufacturer (OEM) or an Authorized Dealer / Distributer of the OEM of the major offered items. A valid certificate of Manufacturers Authorization Form (MAF) should be enclosed.
- c) Bidder should have a minimum average annual turnover of Rs. 10 Cr. (Rupees Ten Crores only) for the last 3 years (FY 2022-23, 2021-22, 2020-21). The proof should be attached.

- d) The bidder should have prior experience in any of the integrated systems related to Audio Visual / Security surveillance / Networking in multiple locations throughout Kerala with centrally monitoring from the main location.
- e) The bidder shall have executed satisfactorily works related to any of the above systems during the last three years in Kerala state / Central Government / PSU.
- (1) One similar work in single contract valuing more than Rs 15 Lakhs.
- (2) Two similar works, each in single contract valuing more than Rs 10 Lakhs.
- f) Bidders should have valid GST registration and PAN. The certificates should be enclosed.
- g) An undertaking to the effect that the bidder has not been blacklisted by any departments / organizations / agencies of State Govt / Govt. of India / PSUs.
- h) The bidder / OEM should have at least two service centers in Kerala and one center should be within 100 kilometers from Head office, Kerala State Council for Child Welfare, Thiruvananthapuram.

**5. BILL OF MATERIALS**

| SL No. | PRODUCT                    | QUANTITY | UOM  |
|--------|----------------------------|----------|------|
| 1      | 4MP Outdoor Bullet Camera  | 1        | NO's |
| 2      | 4MP Indoor Dome Camera     | 1        | NO's |
| 3      | 8 Channel 4K NVR           | 1        | NO's |
| 4      | 16 Channel 4K NVR          | 1        | NO's |
| 5      | 32 Channel 4K NVR          | 1        | NO's |
| 6      | 64 Channel 4K NVR          | 1        | NO's |
| 7      | 8TB Surveillance Hard Disk | 1        | NO's |
| 8      | 22" Monitor                | 1        | NO's |
| 9      | 32" Monitor                | 1        | NO's |
| 10     | 8 Port POE Gigabit Switch  | 1        | NO's |
| 11     | 16 Port POE Gigabit Switch | 1        | NO's |
| 12     | 24 Port POE Gigabit Switch | 1        | NO's |

|    |   |   |       |
|----|---|---|-------|
| 13 | 1 KVA UPS with 2 hours Backup   | 1 | NO's  |
| 14 | CAT 6 UTP Cable   | 1 | METER |
| 15 | CAT6 RJ45 LAN Connector   | 1 | NO's  |
| 16 | Camera mounting Accessories   | 1 | NO's  |
| 17 | 6U Network Rack   | 1 | NO's  |
| 18 | 12U Server Rack   | 1 | NO's  |
| 19 | Junction Box (for termination)  | 1 | NO's  |
| 20 | PVC Conduit with accessories  | 1 | METER |
| 21 | Termination of Electrical Point   | 1 | NO's  |
|    | <b>CENTRALIZED MONITORING</b>   |   |       |
| 22 | Server & Win Server Operating System  | 1 | NO's  |
| 23 | Workstation PC  | 1 | NO's  |
| 24 | Video Management Software for 16 up to cameras (Centralised CCTV monitoring Software) | 1 | NO's  |
| 25 | Video channel expansion license, one video channel license for each camera            | 1 | NO's  |
| 26 | 2x2 LCD Video Wall with bracket (4 nos.) and HDMI Cable                               | 1 | LS    |
| 27 | 2.5 KVA UPS with 2 Hours back up  | 1 | NO's  |

## 6. DETAILED SPECIFICATIONS

### 4MP IR Fixed-focal Bullet Network Camera

1/2.9" CMOS image sensor, low luminance, and high-definition image. Outputs max. 4 MP (2688 × 1520) @20 fps and supports 2560 × 1440 (2560 × 1440) @25/30 fps, H.265 codec, high compression rate, ultra-low bit rate. Built-in IR LED, and the max. illumination distance is 30 m. Min. Illumination should be 0.006 Lux@F1.6 (Color,30IRE), better, ROI, SMART H.264+/H.265+, Smart Codec, flexible coding, applicable to various bandwidth and storage environments.

1. Fixed-focal lens, Focal Length 2.8 mm; 3.6 mm optional
2. WDR 120 dB provides clear details in high brightness environment;

3. IP67 protection, 3 streams Capability.
4. SMD Plus by default to detect human and vehicle, filter out false alarm.
5. Smart Codec saves storage space more than 70% compared with H.265;
6. Perimeter Protection, which support the classification and accurate detection of vehicle and human.
7. Low Illuminance Level – Starlight
8. Built-in MIC for real-time audio security
9. Metal appearance, 256 G micro SD card
10. Smart Codec: Smart H.265+; Smart H.264+

#### **4MP IR Fixed-focal Eyeball Dome Network Camera**

4-MP IR Fixed-focal Eyeball Dome Network Camera, 1/2.9" CMOS image sensor, low luminance, and high-definition image. Outputs max. 4 MP (2688 × 1520) @20 fps and supports 2560 × 1440 (2560 × 1440) @25/30 fps, H.265 codec, high compression rate, ultra-low bit rate. Built-in IR LED, and the max. illumination distance is 30 m. Min. Illumination should be 0.006 Lux@F1.6 (Color,30IRE), FOV: 3.6 mm: H: 78°; V: 41°; D: 94° or better, ROI, SMART H.264+/H.265+, Smart Codec, flexible coding, applicable to various bandwidth and storage environments.

1. Fixed-focal lens, Focal Length 2.8 mm; 3.6 mm optional.
2. WDR 120 dB provides clear details in high brightness environment;
3. IP67 protection, 3 streams Capability.
4. SMD Plus by default to detect human and vehicle, filter out false alarm.
5. Smart Codec saves storage space more than 70% compared with H.265;
6. Perimeter Protection, which support the classification and accurate detection of vehicle and human ;
7. Low Illuminance Level - Starlight
8. Built-in MIC for real-time audio security.
9. Metal appearance, 256 G micro SD card.
10. Smart Codec: Smart H.265+; Smart H.264+

### **S2/L - 8 Channel 1U 2HDDs Network Video Recorder**

1. H.264, H.265, Smart H.264+, and Smart H.265+. H.265 auto switch
2. Max. decoding capability: 8 × 1080p@30 fps. Supports adaptive decoding
3. Supports mainstream cameras of ONVIF and RTSP protocols
4. P2P remote surveillance, video play on mobile device
5. VGA/HDMI simultaneous video output, maximum resolution of HDMI is 4K
6. AI by Camera: Face detection, perimeter protection, IVS, people counting, heat map, and SMD
7. Supports remote configuration and management of IPC, such as setting parameters, getting information, and upgrading IPC of the same model in batches
8. Combined with TiOC IPC 3 Series, realizes smart dual light solution

### **16CH 1.5U 4HDDs Network Video Recorder**

Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format

Access, storage or forwarding at 256 Mbps (180 Mbps when AI function enabled)

Max. decoding capability: 16 × 1080p@30 fps. Supports adaptive decoding

AI by NVR: 1-channel face detection and recognition; 2-channel perimeter protection; up to 10 face databases and 20,000 face images; 4-channel SMD Plus

AI by Camera: Face detection and recognition, perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map, Connected to the third-party network cameras

1. 16ch@1080P decoding, 256/256/256Mbps incoming/recording/outgoing bandwidth;
2. AI by recorder: 1ch-FR/2ch-IVS/4ch-SMD;
3. Quick Pick/EPTZ camera support.

### **32CH 1.5U 4HDDs Network Video Recorder**

Smart H.265+/H.265/Smart H.264+/H.264/MJPEG decoding format

Access, storage or forwarding at 256 Mbps (180 Mbps when AI function enabled)

Max. decoding capability: 16 × 1080p@30 fps. Supports adaptive decoding

AI by NVR: 1-channel face detection and recognition; 2-channel perimeter protection; up to 10 face databases and 20,000 face images; 4-channel SMD Plus

AI by Camera: Face detection and recognition, perimeter protection; SMD Plus; ANPR; people counting; stereo analysis; heat map. Connected to the third-party network cameras

1. 16ch@1080P decoding, 256/256/256Mbps incoming/recording/outgoing bandwidth;
2. AI by recorder: 1ch-FR/2ch-IVS/4ch-SMD;
3. Quick Pick/EPTZ camera support.

### **64 Channels 2U 8HDDs Network Video Recorder**

Supports Smart H.265+, H.265, Smart H.264+, H.264 and MJPEG decoding formats.

Max. decoding capability: 32 × 1080p@30 fps or 32 × 2MP@30 fps.

Max. 384/384/384 Mbps incoming/recording/outgoing bandwidth.

Supports IP cameras with a resolution up to 32 MP.

Supports AcuPick with up to 32 channels.

Supports N+M cluster, iSCSI. NVR Should Support Raid0/1/5/6/10.

AI by Recorder supports 2-channel face detection and recognition, up to 20 face databases and 20,000 face images; 4-channel perimeter protection; 8-channel SMD Plus.

AI by Camera supports face detection and recognition, perimeter protection, SMD Plus, metadata, ANPR, stereo analysis, heat map, and people counting.

Supports EPTZ, and one-click arming and disarming.

1. 32ch@1080P decoding, 384/384/384Mbps incoming/recording/outgoing bandwidth;
2. AI by recorder: 2ch-FR/4ch-IVS/8ch-SMD;
3. AcuPick/EPTZ/IPC Auto register/iSCSI/RAID/N+M

## **Professional - Enterprises Video management Software**

- Video surveillance base package includes 16 video channels and is a prerequisite for video channel expansion. Supported: live view, playback, video wall, map, event center, deep-xplorer, maintenance center,
- ANPR Channels: 500 channels, Support Face Recognition, Metadata, Heat Map, ANPR, Object Detection, Access control, Video Intercom, Visitor Management, People counting, In Area No Analysis, Support Hot Standby and N+M, > Support Live View, Playback, Event, Access Control, Video Intercom, Face Recognition, ANPR, Object Detection and Visitor Management in DSS Agile 8 (Mobile Application).

1. High-performance stream media transfer and storage capability
2. Support distribution and cascade deployment
3. Support local storage and IP-SAN storage
4. Face Recognition Devices and Channels - 100 devices; 500 channels
5. Devices Added by ONVIF Protocol - 1,000 devices; 2,000 channels
6. Video Metadata Channels - 500 channels
7. People Counting Channels -100 channels
8. Incoming and Outgoing Video Bandwidth - 600 Mbps
9. Heat Map Channels -100 channels
10. 10. DSS Agile 8 (Mobile Application)
11. Support Google map, Raster Map
12. Support ONVIF standard protocol
13. Support 2000 channels (Support 1000 input devices )
14. Support 200 online users, unlimited user management.

## **Server**

- Intel Xeon Silver 4310 2.1G, 12C/24T, 10.4GT/s, 18M Cache, Turbo, HT (120W) DDR4
- MEMORY 16 DIMMS



- 32GB DDR4 RDIMM 3200MHz
- 2.5" Chassis with up to 8 Hard Drives (SAS/SATA)
- 1.2TB 10K RPM SAS 12Gbps 512n 2.5in Hot-plug Hard Drive
- 2.5in Hot-plug Hard Drive
- Dual port 1G
- PERC H755 SAS Front
- Hot-plug, PSU 800W
- iDRAC9, Enterprise
- 5 YR ProSupport 4Hr and Mission Critical

### **24 PORT SMART POE GIGABIT SWITCH**

- **Advanced Security:** These switches also provide advanced features that provide more robust security to the SMBs.

These include: 802.1x for authentication.

ACL filtering to permit or deny traffic based on MAC or IP addresses.

- **Advanced Quality of Service:**
  - 802.1p-based prioritization
  - Layer 3-based (DSCP) prioritization.
  - Rate limiting
- **Network Protocol and Standards Compatibility**
  - IEEE 802.3 10BASE-T
  - IEEE 802.3u 100BASE-TX
  - IEEE 802.3ab 1000BASE-T
  - IEEE 802.3z 1000BASE-X
  - IEEE 802.3x full-duplex flow control
  - IEEE 802.3af (Power over Ethernet)
- **Power Supply**
  - Max 225W for GS724TP

- Max 465W for GS748TP
- 100-240VAC/50-60 Hz universal input
- PoE Budget: GS724TP 192W; GS748TP 384W

- **Network Ports**

- GS724TP:
  - 24 10/100/1000 Mbps auto-sensing Gigabit Ethernet
  - 2 combo Gigabit copper/SFP slots
- GS748TP:
  - 48 10/100/1000 Mbps auto-sensing Gigabit Ethernet
  - 4 combo Gigabit copper/SFP slots

### **8 Port POE GIGABIT Switches**

- 8 x Gig Copper Ports
- 8 x 802.3af/802.3at Ports
- Small Form Factor

### **16 Port POE GIGABIT Switches**

- 16 x Gig Copper Ports
- 16 x 802.3af/802.3at Ports
- Desktop, Wall-mount and 19-inch Rack mountable
- Small Form Factor

### **LCD Videowall – 4 Nos.**

- Screen Size 55" or more
- Panel Type IPS or better
- Resolution 1920x1080 or better
- Bezel Width (mm) B2B: 1.74mm (Panel Bezel to Panel Bezel)
- Aspect Ratio 16:9
- Brightness 500 nits or better

- Operation Hours 24/7
- Contrast Ratio 1000:1 or better
- Viewing Angle (H/V) 178/178°
- Video Input HDMI 2.0 (2) or more
- Audio Output Stereo mini-Jack
- USB Input for F/W upgrade Yes
- Video Output DP1.2(Loop-out)
- External Control RS232, RJ45
- Power Consumption Max[W/h] 300 W or lesser
- Power Consumption Typical[W/h] 160 W or lesser
- Special H/W Support (Advanced Color Management)  
Temperature Sensor  
Video Wall Daisy Chain(10x10) DP 1.2 Digital Daisy Chain (Supporting UHD Resolution, HDCP support)  
Clock Battery (168hrs Clock Keeping)
- Special S/W Auto Source Switching & Recovery RS232C/RJ45  
MDC Button Lock, Smart F/W update
- Certification EMC Class B, Safety Certification, IP5x IP Rating

**LCD Videowall Bracket – 4 Nos.**

- Material Steel
- Surface Finish Powder Coating
- Fit Screen Size 55" or higher
- VESA Compatible should be compatible with the above videowall
- Weight Capacity (Per Screen) 40kg or better
- Screen Level +3°~-3° or better
- Anti-Theft Locking Required
- Pop-Out Extension Required
- Built-In Level Adjustment Required

- Pop-Out Lock System Required

**Active HDMI 2.0 Cable – 1 No.**

- Cable Length 10 Meter or more
- HDMI Version HDMI 2.0
- Resolution 4K60Hz@4:4:4 or more
- Bandwidth 18 Gbps or more
- HDCP 2.2 Support

**7. SPECIAL CONDITIONS**

1. It is mandatory for the bidder to deploy qualified professionals to install, commission & maintain the equipment, as defined under scope of work.
2. The successful bidder shall install the systems as per the specifications prescribed in the tender document and should install the Surveillance system in the Specified locations of Kerala State Council for Child Welfare, Thiruvananthapuram.
3. The successful bidder shall supply all equipment / materials required to execute the work in the respective sites as per the Bill of Material quoted.
4. The bidder shall ensure the CCTV Camera will cover the various locations identified by the Kerala State Council for Child Welfare, Thiruvananthapuram.
5. The locations are indicative and may change. The bidder must finalize the location of the cameras in consultation with the Kerala State Council for Child Welfare, Thiruvananthapuram officials before installation.
6. The bidder shall set up a Centralized Monitoring facility at Kerala State Council for Child Welfare, Thiruvananthapuram.
7. The successful bidder shall be responsible for making the surveillance systems in full functional condition after the installation.
8. The Successful bidder should provide training to the concerned officials regarding the working principles of the surveillance systems installed.

9. The Camera Video feeds must be transmitted 24X7 and able to view in the video wall Monitor provided by the bidder and also (through Mobile/ Tab if required).
10. The surveillance system installation includes the installation of indoor and outdoor cameras for proper surveillance coverage at each location. The camera locations are mentioned in this document, however, the locations at the time of installation may change based on the site requirement.
11. The technical specifications mentioned in this document are the minimum suggestive specifications. The vendor not meeting these minimum suggestive technical specifications are liable to be rejected.
12. Bidder should survey and evaluate the site conditions, if necessary, before submitting offers and are responsible to supply and install the surveillance system including all necessary cabling, conduits, wiring and other related accessories.
13. The bidder shall ensure three years comprehensive warranty as per this document to all equipment, parts supplied including all works associated with the project from the date of successful User Acceptance Test.
14. Successful bidder should provide training to the team identified by the user for operation of the System and handhold on job. The bidder shall handover all software products license keys/ passwords/ software/ installation files including user manual and all necessary documentation to Kerala State Council for Child Welfare, Thiruvananthapuram.

## **8. PERFORMANCE SECURITY**

If work is awarded, a Performance Security equal to 5% of contract value shall be furnished by the bidder. The Performance Security will be forfeited, if the firm fail to abide the terms and conditions of the tender and subsequent execution of the work/ warranty liability. It will be released after the warranty period of 3 years. Performance security can be released based on submission of Bank Guarantee from a Nationalised / Scheduled Bank.

## **9. VALIDITY**

The Bid will be valid for 90 days from its date of opening. Further extension can be done by mutual consent.

## **10. DELIVERY AND INSTALLATION**

The items should be delivered and installed at the site.

## **11. PAYMENT TERMS**

Payment will release only after inspecting the work and satisfy that the items are supplied as per the requirements and based on 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. However, 90% of the payment can be released against material delivery provided the site is not ready for installation.

## **12. WARRANTY**

Minimum 3 years warranty from the date of installation.

## **13. OTHER TERMS AND CONDITIONS**

- i. The tenders shall invariably be accompanied by manufacturers catalogues and leaflets giving full specifications. Technical and other details of the items offered 'Brand / Make' and complete specification should be mentioned in the tender. In the absence of full details of specification, the tenders for the items will be rejected.
- ii. The Bidders are responsible for effecting supply and execution to the entire satisfaction of the undersigned or his authorized representatives. In case any defect in the item supplied is noticed, such item will be rejected at the risk and cost of the Supplier.

- iii. Kerala State Council for Child Welfare, Thiruvananthapuram reserves the right to accept or reject any bid, and to annul the bidding process and reject all bids at any time prior to award of contract without assigning any reason whatsoever and without thereby incurring any liability to the affected bidder or bidders on the ground of purchaser action.
- iv. Kerala State Council for Child Welfare, Thiruvananthapuram is not bound to assign any reason for rejecting any or all the tenders. It also reserves the right to accept/reject (part/whole) or any other tender(s) at their sole discretion without assigning any reason thereof. Its decision in the matter shall be final and binding.
- v. The components/parts of the equipment specified should be of the same OEM or the one that is authorized by the manufacturer. The supplier should verify that all parts adhere to the conditions mentioned above.
- vi. The undersigned does not bind himself to accept the lowest tender and reserve himself the rights of accepting the whole or any part of the tender and the bidder shall be bound to supply the accepted item at the rates quoted.
- vii. The bidder shall submit the price offers inclusive of Tax, transportation charges, installation charges and any other charges.
- viii. The rate should be quoted for the unit shown in the list and tenders which do not indicate this essential information will not be considered.
- ix. The rate quoted for material shall be firm and no enhancement will be allowed under any circumstances. The enhancement of rate will cause the cancellation of the supply order and the security deposit will be forfeited.
- x. The tenderer should compulsorily fill out the technical compliance statement which is attached as an additional document.
- xi. If the tenderer furnishes wrong and/or misguiding data, statement(s) etc. about technical acceptability of the goods and services offered by it, its tender will be liable to be ignored and rejected in addition to other remedies available to the purchaser in this regard.

- xii. Delivery period shall be specifically indicated in the tender and strictly adhered to. If no delivery period is stated in the tender, it will be taken for granted that the supply & installation will be arranged within 60 days on receipt of the firm order.
- xiii. The bidder shall upload the details of the items quoted including brochures, Datasheets of the products, covering full technical specifications of items/materials and accessories quoted.
- xiv. In case recessing/ trenching of wall/ floor required for the laying of conduits/ cables, the same should be made in a proper way. Should be refilled / closed to make good.
- xv. Any dispute / differences between the parties arising out of and in connection with the contract shall be settled amicably by mutual negotiations. Unresolved disputes/ differences, if any, shall be settled by Arbitration and the arbitration proceedings shall be conducted at Thiruvananthapuram (India) in English language, under the Indian Arbitration and Conciliation (Amendment) Act, 2015. Unsettled disputes will be referred to courts and courts in Thiruvananthapuram/ Kerala will have exclusive jurisdiction over the same.
- xvi. After sales service: Service support personnel should be available at any time on demand. The bidder must react on the fault within 24 hours of service calls. The Escalation matrix with Telephone Number and email of the designated persons should be submitted for reporting faults during the warranty period.
- xvii. Agreement: The Successful bidder within 15 days of getting confirmed Work order must enter an agreement with Kerala State Council for Child Welfare, Thiruvananthapuram in Rs.200/- worth non- judicial stamp paper, to ensure warranty and after sales support during the warranty period.
- xviii. Authority: The authority for the acceptance of the tender rests exclusively with the Kerala State Council for Child Welfare, Thiruvananthapuram. At any time prior to the deadline for submission of tenders, the Kerala State Council for Child Welfare, Thiruvananthapuram may, for any reason deemed fit by it, modify/amend the tender documents by issuing suitable amendment(s)/ corrigendum's to it.



**CONTACT DETAILS**

If the bidder has any doubt on technical specifications or on terms & conditions stipulated above, please contact .....