

**NOTICE INVITING BUDGETORY OFFERS**

Name of Work	<b>NAME OF WORK</b> : “ Upgradation of Video Recording backup of CCTV System at MPA, Goa”
Date of submission of budgetary quotation	On or Before <b>26.02.2024 at 11:00 Hrs.</b>
Address for communication:	Executive Engineer (E-HL), Mechanical Engineering Department, Mormugao Port Authority, Electrical Section, 1st Floor, Admin. Building, Headland sada Vasco-de-Gama Goa - 403804
Contact Details	Phone : (0832) 2594241, 2594244 Email : <a href="mailto:xene.mgpt@gmail.com">xene.mgpt@gmail.com</a>
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**EXECUTIVE ENGINEER (E-HL)  
MORMUGAO PORT AUTHORITY**

**MORMUGAO PORT AUTHORITY**

**ENGINEERING MECHANICAL DEPARTMENT**

CME/XEN(E-HL)/M-22/

.02.2024

**Sub:** “ Upgradation of Video Recording backup of CCTV System at MPA, Goa”

**Ref:** Budgetary Quotation No. CME/XEN(E-HL)/M-22/02

Mormugao Port Authority intends to carry out the work of “Upgradation of Video Recording backup of CCTV System at MPA, Goa”. As such, kindly furnish the budgetary quotation for the same. Scope of work enclosed as Schedule - 'A' and Price Schedule enclosed as Schedule - 'A1'.

Your budgetary quotation should reach to this office on or before **26.02.2024**.

Thanking you,

Yours sincerely,

**EXECUTIVE ENGINEER (E-HL)**

**Technical specification**

**1.0. General :**

Mormugao Port Authority intends to take up the work of “Upgradation of Video Recording backup capacity of CCTV footages from existing 30 days to around 90 days or above at MPA, Goa”. The work involves supply, installation, testing and commissioning of 03Nos. Embedded Video Servers and thereafter 03 years CAMC upon completion of 01 year guarantee period.

**2.0 SCOPE OF WORK:**

- i) The contractor shall supply Video server as per technical specifications. Further, the contractor shall supply and install 24U fully loaded network rack at a specific location in the CCTV control room and install all the three video servers and NVR's inside the rack.
- ii) The contractor shall re-distribute the CCTV camera inputs from the existing NVRs to these Video Servers and configure all the cameras as necessary in-coordination with CISF and Engineer – In – Charge (EIC). The contractor shall arrange for necessary power/LAN or any other cabling and accessories for doing so.
- iii) Any additional software's if required shall be sourced by the contractor apart from the recording applications, which shall be pre-loaded on the server.
- iv) The Video Server shall be compatible to the existing cameras as well as for the latest series model of higher end IP cameras of all renowned makes, in terms of technology and storage capacity. The contractor shall provide 1 year guarantee with on-site support after commissioning of work.

## **2.1 STANDARDS and CODES**

The Embedded Video Servers and the associated software's shall comply with ONVIF standards and shall be UL/CE, CMMiLevel5 and FCC Certified, evidence of which shall be provided.

## **2.2 Detailed Technical Specifications:-**

### **2.2.1 Supply Installation, Testing and Commissioning of Embedded Video Server**

- Compatibility to Viewcam / Qnap / CMS Video Management Platform.
- Hybrid mode to take inputs from upto 8 MP IP cameras supporting all major transmission Protocols.
- Push Server Technology for simultaneous Display of 32 cameras on Android / mac network & server platform to view 32 cameras over Network.
- Includes 8 HDD of 8TB each for Recording and Backup.
- Supports Dual Giga port Lan for 2 Network Connectivity and 2 HDMI & VGA output.
- Intelligent user Analysis for specific Rights and Mac Binding Concept.
- Rack mountable, Stackable and expandable upto 64 inputs.
- Pentaplex Operation.
- Supports AI Based Video Analytics including Intelligent.
- Alarms and Motion Analysis with push mail notification with Snapshots.
- Push recording to hard disc array/ Bay for Mirroring concept.

#### **System Overview/ General Features:**

- All equipment's should be suitable for 24 Hours duty cycle.
- All required equipment's mentioned/not-mentioned but required for smooth running of system will have to be supplied without additional cost.
- **Viewing features:**
  - Adjust brightness, Contrast, Saturation & hue for a clearer view
  - Support digital zoom in to view specific areas
  - For providing viewing access system to facilitate admin rights for users through password protection.

Video Server shall have provision to incorporate additional 10 cameras into the existing system for future expansion of storage systems. The system shall be supplied with power cord, Audio/Video and interconnecting cables, necessary software etc.

### **2.2.2 Supply and installation of 24U surface mounting network rack**

Supply and installation of 24U surface mounting network rack, complete with power strip, one fan, front glass door & rear perforated MS body with lock and key arrangement.

### **2.3 Miscellaneous Items**

Misc items, like saddles, fitting materials, screws, nuts, fasteners, jointers, sealants, RJ45, accessories, 3 core 1.5 sq.mm PVC flexible wire, 2 nos. 5A switch socket combined, MCB's etc as required for the total commissioning, to be provided by the Contractor to commission the system successfully and to the satisfaction of EIC.

## **3.0 INSTALLATION & COMMISSIONING**

1. The Contractor shall carry the work as per the BOQ.
2. The Contractor shall commence and complete the work within 45 days from date of issue of LOA to the satisfaction of the Chief Mechanical Engineer or his representative. Necessary safety measures for entire erection shall be done by the contractor as per prevailing safety standards.
3. The special tools/instruments needed for regular servicing / maintenance working shall be supplied by the Contractor. All the materials required for the installation and commissioning at site shall be supplied by the Contractor. Misc items, like saddles, fitting materials, switch, sockets, screws, nuts, fasteners, jointers, sealants, accessories, etc as required to run the system included in quote.
4. The work should be carried out with utmost precaution not to disrupt existing CCTV system in any way. The installation of the various equipment's shall be carried as per the site conditions and as directed by the EIC. The Contractor shall carry out the works in co-ordination with the on-going CAMC Contractor.
5. The contractor shall arrange for laptop or any other interfacing device required for commissioning/troubleshooting during the guarantee period at his cost. Port will not be responsible for arranging the above.
6. Special care may be taken to prevent any damage to the Port's property during installation and commissioning. The workmanship shall be neat, clean

and elegant/ aesthetic in appearance etc. The rack supplied shall be done with Marine paint to withstand saline atmosphere prevailing in the area.

7. All the quantities indicated in the price schedule/BoQ are indicative. However, the work shall be carried out as per site conditions. Payment will be released as per actual executed quantities after completion of work.
8. **Technical brochures/ data sheets of Embedded Video Server should be submitted with the tender specifically for models the tenderer intends to supply.**
9. Power and water will be provided by the Port on free of cost basis.

### **3.1 Manuals & Drawings**

On completion of the work the Contractor shall supply 3 sets of operation and maintenance manuals after commissioning. The soft copy of all the as built drawings and manuals should also be provided which shall include General arrangement with principle details, Schematic line diagrams (SLD), and any other special features implemented in the system. The login credentials/passwords and rights if any shall be handed over to the Port after completion of Guarantee Period.

### **3.2 TEST & CERTIFICATIONS**

Relevant CE or UL certificate and ONVIF standards for Embedded Video Server etc shall be submitted along with materials to the satisfaction of the Chief Mechanical Engineer or his representative, failing which the materials will be rejected by Port.

The Bidder is required to install the Video Servers with the licenses, latest firmware/software upgrades and latest security patches from the OEM meant for fixing software glitches, vulnerabilities, functional enhancements etc. Further, the Bidder is required to install firmware/software upgrades as well as apply latest patches as and when released by the OEM for fixing software glitches, vulnerabilities or functional enhancements during the guarantee period of one year.

The Bidder should ensure that the Equipment to be supplied should be latest product release indicating the year of release and not be declared as “End of Life” Product by the respective OEM as on the date of submission of the Tender.

### **3.3 Terms of Payment**

The party shall furnish security deposit of 10% of the contract value as per terms of the tender.

After commissioning of the work, the system shall be tested for its intended/smooth functioning for a period of 30days. Only after completion of testing period, the party can produce their full and final invoice for payment.

### **4.0 GUARANTEE**

The installation shall be guaranteed for 12 months from the date of acceptance and free maintenance shall be done during the guarantee period.

#### **4.1 MAINTENANCE DURING GUARANTEE PERIOD.**

1. The contractor shall provide one-year guarantee for the equipment's installed. The maintenance during guarantee period shall include replacement of all defective components of the system including the Embedded Video Server.
2. During the one year guarantee period, the Port shall not bear any charges incurred by the contractor for deputing the skilled manpower, logistics, licenses or materials to carry out any form of repairs.
3. The Contractor shall arrange his own tools and tackles including ladder for carrying out the works during the installation and guarantee period.
4. During guarantee period if any of the equipment supplied by the Contractor are found defective /Damaged, same has to be replaced by the Contractor at their cost. Therefore Bidders shall access the environmental conditions in respect to the supply of quality of equipment's and workman ship so as to ensure continual stability in running of system successfully. The bidder shall maintain basic inventory of required spares for upkeep of the part of CCTV Surveillance system installed by him during the guarantee period.
5. In case need arises, the technicians should be present after office hours and during holidays without any cost and liability to the Port. The tenderer shall provide contact telephone number/ mobile and E-mail address to also register complaints at his office.

## **4.2 PENALTY CLAUSE**

The fault should be attended within 24 hrs from receipt of complaint from Port, during guarantee period, failing which an amount of Rs. 500/- per day will be deducted from security deposit/ support charges as penalty until the fault is restored & camera/system is recommissioned.

## **5.0 COMPREHENSIVE MAINTENANCE CONTRACT:**

1. a) **Maintenance during CMC Period:**
  - i. The contractor shall provide three year Comprehensive Maintenance Contract for the equipment's installed from the date of completion of one year guarantee period.
  - ii. The contractor shall formulate a checklist for the equipments of surveillance system under CAMC and shall get it approved from the EIC. The contractor shall depute its service engineer once in every 3 months to carryout maintenance of the complete system as per the checklist.
  - iii. Apart from regular preventive maintenance(quarterly) the contractor will have to attend any number of breakdown calls free of cost and shall report to site within 24 hrs from receipt of breakdown calls from the Port. The maintenance during CMC shall include repairs/replacement of all defective components of the system including the wireless units.
  - iv. In case the service representative of the contractor is unable to resolve any breakdown during guarantee or CAMC, the contractor shall engage OEM or external entity at no extra cost to the Port, to resolve the issue.
- b) **Terms of Payment:** On satisfactory completion of quarterly servicing and on certification by the EIC and CISF, yearly payment will be recommended on pro-rata basis on production of pre-receipted bill in the Port format. The Contractor shall furnish their Bank details/Account No. and PAN in order to effect payment thro' ECS.
- c) **Security Deposit for CMC:** The Security deposit paid by the successful Tenderer will be extended as Security Deposit for the Comprehensive maintenance contract for a period of 03 years and the same will be refunded after successful completion of 03 years CMC period.



**d) Penalty Clause (For CMC AND Guarantee period)**

The contractor shall complete the required maintenance work as and when directed by Port Officials. Non-functioning of the system during CMC period will have to be attended and rectified within 24 hours of reporting of the fault, failing which an amount of Rs.1,000/- per day will be deducted for first 7 days and beyond the period of 7 days, an amount of Rs.1,500/- per day will be deducted as penalty from the Security Deposit until the issue is resolved.

**5.0 Other Conditions:**

- 1) The Contractor is required to offer rates as per Port's format "Schedule-A1" without fail and indicate taxes and duties if any applicable. Port will not produce Form C or D.
- 2) Technical and Commercial conditions shall be clearly furnished in the quotation. The offer shall indicate the make and model of the equipment and shall accompany with the relevant technical leaflet.
- 3) The rate should be quoted as per unit.
- 4) The rate quoted should be maintained till the completion of supply and no upward price revision will be agreed to.
- 5) GATE PASS: Necessary Entry Permits shall be obtained by the Contractor on chargeable basis.
- 6) The Contractor must comply with the Safety aspects as governed by the relevant edition of Indian Electricity Rules and Industrial Safety, the contractor shall be responsible for overall safety.
- 7) ADDITION & DELETIONS: CME reserves the right to add or delete the above mentioned quantities in the BoQ and payment will be affected at actuals.
- 8) The Tenderer shall inspect the site and assess the requirement if necessary before furnishing their offer.

**PRICE SCHEDULE (BILL OF QUANTITIES)**

<b>PART A- Supply, Installation, Testing and Commissioning</b>							
Sr No	Description	HSN/ SAC Code	Unit	Qty	Rate(Rs)		Amount (Rs)
					In Figures	In Words	
1.	Supply, Installation, testing and commissioning of Embedded Video Server as per technical specification at Schedule - 'A'						
	a) Supply		No.	3			
	b) Installation, testing and commissioning		No.	3			
2	Supply and Installation of 24 port patch panel						
	a) Supply		No.	5			
	b) Installation of 24 port patch panel		No.	5			
3	Supply and Installation, network rack as per technical specification at Schedule - 'A'						
	a) Supply		No.	1			
	b) Installation, testing and commissioning		No.	1			
4	Configuration of all equipments and commissioning as a system		LS	1			
<b>TOTAL PART A</b>							

<b>PART B – Comprehensive Annual Maintenance Contract</b>							
Sr No	Description	HSN/ SAC Code	Unit	Qty	Rate(Rs)		Amount (Rs)
					In Figures	In Words	
1	Comprehensive Annual Maintenance Contract						
	a) 1 <sup>st</sup> year CAMC		No.	1			
	b) 2 <sup>nd</sup> year CAMC		No.	1			
	c) 3 <sup>rd</sup> year CAMC		No.	1			
<b>TOTAL PART B</b>							
<b>GRAND TOTAL AMOUNT (PART A + PART B)</b>							

Total (In Words)

Rupees \_\_\_\_\_

only.

**Date:**

**Signature:**

**Place:**

**Name:**

**Address:**

**Office Seal of firm**

**Note:** 1.The offered rates shall be exclusive of GST.