

**NOTICE INVITING BUDGETORY OFFERS**

Name of Work	<b>NAME OF WORK : “SUPPLY AND INSTALLATION OF BODY WORN AND DASH BOARD CAMERAS AT MPA”</b>
Date of submission of budgetary quotation	On or Before <b>01.10.2025.</b>
Address for communication:	Executive Engineer (E-HL), Mechanical Engineering Department, Mormugao Port Authority, Electrical Section, 1st Floor, Admin. Building, Headland Sada Vasco-da-Gama Goa - 403804
Contact Details	Phone : (0832) 2594241, 2594215/42 Email : <a href="mailto:xene.mgpt@gmail.com">xene.mgpt@gmail.com</a>
Website	<a href="http://www.mptgoa.gov.in">www.mptgoa.gov.in</a>

**EXECUTIVE ENGINEER (E-HL)  
MORMUGAO PORT AUTHORITY**

**MORMUGAO PORT AUTHORITY**  
**ENGINEERING MECHANICAL DEPARTMENT**

**CME/XEN (E-HL)/M-22/2025/**

**Date: .09.2025**

**Sub: SUPPLY AND INSTALLATION OF BODY WORN AND DASH BOARD CAMERAS**  
**AT MPA.**

**Ref: Budgetary Quotation No. CME/XEN (E-HL)/M-22/2025/01**

Mormugao Port Authority intends to Install body worn and dash board cameras at MPA

As such, kindly furnish the budgetary quotation for the same (Technical specification enclosed as Annexure-I and Price Schedule enclosed as Annexure-II):-

Your budgetary quotation should reach to this office on 01.10.2025.

Thanking you,

Yours sincerely,

**EXECUTIVE ENGINEER (E-HL)**

### Technical specification

**NAME OF THE WORK:** SUPPLY AND INSTALLATION OF BODY WORN AND DASH BOARD CAMERAS AT MPA.

#### 1. SCOPE OF WORK:

- i. The bidder shall supply and install the 02 Nos. Body worn cameras and 01 no., Dash Board camera at site and to provide the training to the designated officials to use the same.
- ii. The bidder shall provide 01 year guarantee for the cameras. Further, the bidder shall provide complete list of inclusion and exclusion for claim of guarantee.

#### 2. TECHNICAL SPECIFICATIONS:

##### i. Body Worn Camera Specification:

General Features	
Type:	Wearable digital video recorder
Mounting Options:	Shoulder clip / chest mount / magnetic mount
Water & Dust Resistance:	IP66 / IP67 certified
Drop Resistance:	Minimum 1.5-meter drop resistance
Operating Temperature:	-20°C to +55°C
Camera and Video	
Lens Angle:	120° to 140° wide-angle lens
Resolution:	1920x1080 (Full HD)
Video Format:	MP4 / MOV / AVI
Frame Rate:	30 FPS (selectable 25/30/60 FPS options)
Night Vision:	IR night vision with auto/on/off mode (10–15m range)
Pre/Post Recording:	Up to 30 seconds pre-recording & 1 minute post-recording
Audio	
Audio Recording:	Built-in microphone (auto and manual recording)
Audio Format:	AAC / WAV
Noise Reduction:	Yes (dual mic noise reduction)
Display & Controls	
Screen:	2.0 to 2.4 inch TFT LCD screen
Buttons:	One-touch recording (audio/video), snapshot, power, playback
Indicators:	LED and vibration alerts for recording status
Storage	
Internal Memory:	01 TB (built-in)
Encryption:	AES 256-bit encryption
Data Protection:	Password-protected access

<b>Battery</b>	
Battery Type:	Built-in rechargeable lithium battery
Capacity:	Minimum 3000 mAh
Battery Life Continuous recording:	8–12 hours
<b>Connectivity</b>	
USB:	USB 2.0 / 3.0
Wi-Fi:	Optional for live streaming
GPS:	Optional built-in GPS for location tracking
Docking Station Compatibility:	Yes (for charging and data transfer)
<b>Software &amp; Data Management</b>	
Management Software:	Included (for secure playback, tagging, export)
Time/Date Stamp:	Auto embed in video
Chain of Custody:	Automatic file tamper-proof log
User ID Stamp:	Yes, if multiple cameras in the unit.

## ii. Dash Board Camera Specifications:

<b>General Features</b>	
Type:	Vehicle-mounted digital video recorder
Installation Location:	Front windshield (optional rear and cabin-facing cameras)
Operating Temperature:	-10°C to +65°C
Power Source:	12V/24V vehicle power supply (with hardwire kit or cigarette lighter adapter)
Mounting:	Suction cup or adhesive mount
<b>Camera &amp; Video</b>	
Lens:	Wide-angle (minimum 140°, up to 170°)
Video Resolution:	
Front:	1920×1080 (Full HD) or 2K (2560×1440)
Rear/Inside:	(optional) 720p or 1080p
Frame Rate:	30/60 FPS
Low-Light/Night Vision:	Yes (Infrared LEDs or Sony STARVIS sensor)
WDR (Wide Dynamic Range):	Yes, for better visibility in high contrast scenes
Video Format:	MP4 / MOV (H.264 or H.265 compression)
<b>Audio</b>	
Microphone:	Built-in mic for in-cabin recording
Speaker:	Built-in (for playback and alerts)
Audio Recording:	Optional on/off

<b>Display &amp; Controls</b>	
Screen Size:	2.0 to 3.5-inch LCD (TFT or IPS)
Touchscreen:	Optional
Buttons:	Power, emergency lock, menu, up/down
Status Indicators:	LEDs for power, recording, GPS, etc.
<b>Storage</b>	
Micro SD Support:	Up to 01 TB (Class 10/UHS-I or higher)
Loop Recording:	Yes (auto overwrite of oldest files)
Emergency Lock:	G-sensor auto-locks files during collision or sudden motion
Manual Lock:	One-touch button to save critical footage
<b>Connectivity</b>	
GPS:	Built-in or external (for speed + location stamping)
Wi-Fi:	Optional (for smartphone access via app)
4G LTE:	(Optional) For real-time video uploads & GPS tracking
USB:	USB 2.0/3.0 for data transfer and charging
<b>Smart Features</b>	
ADAS (Advanced Driver Assistance System):	1. Lane Departure Warning System (LDWS) 2. Forward Collision Warning (FCW)
Parking Mode:	Motion detection + G-sensor recording during parking
Time/Date Stamp:	Embedded in video
Speed Stamp:	Yes (if GPS enabled)
<b>Software &amp; File Management</b>	
PC Viewer Software:	For playback with GPS tracking map
Mobile App:	Optional (IOS/Android) for Wi-Fi models
Encryption:	Optional password-protected access

#### 2.1. Other Conditions:

- 1) The rate should be quoted as per unit.
- 2) The rate quoted should be maintained till the completion of contract and no upward price revision will be agreed to.
- 3) Port can accept or delete any of the items mentioned in Schedule-A1 and also the quantity mentioned is only provisional and it may be either increased or decreased as per requirement.
- 4) The contractor is advised to visit the site and get acquainted regarding the nature of the work involved at site conditions before quoting the offer.

- 5) **Warranty:** All the materials, equipment, spares etc. supplied by the firm shall have 1 year warranty from the date of installation or acceptance by the Port whichever is later.
- 6) The Contractor personnel engaged in the work shall follow all safety, security and General Rules enforced by Mormugao Port Authority (MPA) and the contractor will only be responsible for the same. The workmanship shall be neat, clean and elegant/ aesthetic in appearance etc.
- 7) Upon completion of the work, the contractor shall clear the site of all the scraps including packaging material, cable ties, cable pieces etc.
- 8) MPA will not be responsible for any loss or damage of the men / materials / tools / plants engaged by the firm during the work at site / transportation.
- 9) The contractor should indicate the GST No.
- 10) No advance payment will be made by the Port.
- 11) Final payment will be made only after handing over the entire system in good working condition and upon producing all the invoices and supporting documentation.
- 12) Necessary entry passes shall be obtained by the firm at their own cost with the approval of Port Officials.
- 13) For any clarifications, the firm may contact the 'Executive Engineer at 1<sup>st</sup> floor of the Administrative Office, Ph.0832-2594241/4215.

**PRICE SCHEDULE (BILL OF QUANTITIES)**

ARC FOR MAINTENANCE OF CCTV SYSTEMS ON VISIT BASIS AT MPT NON OPERATIONAL AREAS FOR A PERIOD OF TWO YEARS

Sr. No.	Description	Unit	Qty	Rate (Rs.)		GST (%)
				In fig.	In words	
1	Body Worn Camera as per technical specifications					
	Supply	Nos.	2			
	Installation	Nos.	2			
2	Dash Board Camera as per technical specifications					
	Supply	No.	1			
	Installation	No.	1			

(In Words Rupees \_\_\_\_\_ only)

**Note: The rates quoted shall be inclusive of transportation, lodging and boarding, but excusive of GST. Applicable GST shall be paid extra as applicable.**