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Lr.No. ITC51-14027/6/2025-PROC-APTS -2

Dated: 13.01.2026

To
All prospective bidders

Sir/Madam,

Sub: APTS – SWD- Procurement of AI based CCTV Infrastructure to O/o Social Welfare Department
GoAP.- Reg.

Ref: 1) Ref. no.ITC51-14022/9/2025-PROC-APTS-2, dated:30.12.2025 Tender Id:
881878

- 2) Pre-bid conference meeting held on 05.01.2026
- 3) Procurement committee meeting held on 12.01.2026

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Please refer to the above subject and references cited. APTS has invited bids as per the procedures of Open Competitive Bidding on 30.12.2025 for "Procurement of AI based CCTV Infrastructure to O/o Social Welfare Department GoAP., Pre-bid conference was held on 05.01.2026.

The scope, terms and conditions of the bid document were discussed during the pre-bid conference. The Clarification/amendments recommended to the bid document after discussion in the procurement committee meeting are attached in – Annexure I & Annexure II

All other terms and conditions of the bid document remain unaltered.

Yours faithfully

**Sd/-
Managing Director**

ANNEXURE - I

Original Bid Document (RFP) – Clarifications: Procurement of AI based CCTV Infrastructure to O/o Social Welfare Department GoAP., (Tender Id: 881878)

#	Reference, clause no.	Pg. #	Content of RFP requiring clarification	Points of clarification from the Bidder	Clarification to queries
1.	Main Clause: Section A Tender Call Notice Sub-clause A.1. The solution, service or material required Serial No:15	5	VMS servers – 1 no	As per BoQ, 989 locations × 6 cameras = 5,934 cameras. Please confirm whether one (1) VMS Server is expected to manage all 5,934 cameras, including live view, playback, recording control, and user access, without any additional VMS servers. To ensure correct understanding of system scale and uniform sizing by all bidders.	Minimum One VMS server shall be deployed. In case the Bidder proposes more server(s), the same may be quoted against this line item and the details of additional servers quoted against this may be mentioned in the Technical bid with proposed make, model, part number etc., District level monitoring will be done with Workstations that are connected with Centralised VMS.
2.	Tender Call Notice Sub-clause A.1. The solution, service or material required Serial No:19	5	Web application for AI features and mobile app for reporting untoward incidents for above cameras, features as detailed scope of work above	Please confirm whether web and mobile applications are to be hosted on existing VMS/Analytics servers or require separate application servers, and whether APSDC hosting will be provided. To clearly understand application hosting and infrastructure responsibilities.	The web and mobile applications are to be hosted in APSDC/APSCAN/ Dept Location. The department will provide rack space, power, and network connectivity at APSDC. The bidder is responsible for providing all application, database, and web server software and licenses.
3.	Main Clause: D Technical Specifications Sub-clause: Para 3	13	Following are AI features that are to be enabled in the CCTV infrastructure and the AI analytics should identify the following: 1. Facial Recognition 2. Garbage recognition 3. Recognition of violent incidents 4. Identification of unauthorized persons 5. Video record of exceptions 6. Staff absenteeism 7. Study hour monitoring	1. Facial Recognition : Please clarify whether an existing facial image/database is available with the department for Facial Recognition and whether APIs or interfaces will be provided for integration with the existing database. Alternatively, should the bidder consider creation of a new facial database from scratch as part of the project scope This clarification is required to accurately understand the project scope and system design requirements related to Facial Recognition. 2. Recognition of violent incidents Please clearly define the term “violent incident” as referred to in the tender.	1. The bidder is responsible to create a new facial database and operational workflow required to securely manage the data. 2. Violent Incident includes, but is not limited to, visible physical assaults, fights involving hitting/punching, use of physical weapons, mob violence, and acts of vandalism causing property damage.

#	Reference, clause no.	Pg. #	Content of RFP requiring clarification	Points of clarification from the Bidder	Clarification to queries
			8. Monitoring students whether eating in designated places or not 9. Identifying the mischiefs like turning the camera direction and obstructing the cameras	Specifically, confirm whether it includes events such as physical fights, assaults, mob violence, vandalism, or any other related activities. This clarification is required to ensure a common and unambiguous understanding of the events to be detected under the Violent Incident / Violence Detection analytics Please clarify whether VA use cases need to be defined for every camera	
4.	Main Clause: D Technical Specifications Sub-clause: Para 4	13	In case of any untoward incidents reported in hostel premises, video recording (min 30 seconds) immediately sent to the ASWO and then escalate it to the higher authorities i.e DSWO / Director/ Secretary till their response through mobile App. Bidder should provide Web application for AI features and mobile app for reporting untoward incidents for above cameras.	1. Please specify the resolution, frame rate, and bitrate of the 30-second incident video clips sent through the mobile application. To correctly assess bandwidth and application requirements. 2. Please explain the complete operational workflow of the system, including event generation, alert validation, action initiation, and closure. Additionally, kindly specify the escalation time frames, escalation matrix (levels, roles, and responsibilities), and the mandatory functional features required in the web application as well as the mobile application. This clarification is essential to ensure a uniform understanding of operational expectations and functional scope among all bidders	1. Clips sent via mobile app should be designed by the bidder to facilitate the AI analytics at APSDC/APSCAN/ Dept.
5.	Item-1: 5 MP or above Bullet IP Camera (AI) - Metal or Metal & plastic Body – 4 Qty. for each location (989*4=3956) Serial No:38 Item-2: Item-2: 5 MP or above Dome IP Camera (AI) - Metal or Metal & plastic Body – 2 Qty.	14& 16	Cloud Yes	1. The current Cloud integration introduces several operational and security risks. Storing or transmitting footage to external Cloud servers increases the potential for unauthorized access, data breaches, and privacy violations. We are providing STQC standard camera . as per STQC standard Kindly Amend this clause : remove Cloud As per STQC standard Kindly Amend this clause : remove Cloud 2. The proposed solution is designed for on-premise deployment, ensuring full control over data, enhanced	Clause Deleted

#	Reference, clause no.	Pg. #	Content of RFP requiring clarification	Points of clarification from the Bidder	Clarification to queries
	for each location (989*2=1978) Serial no:41			security, and compliance with local data-protection requirements. All core functionalities such as live monitoring, recording, playback, and analytics are supported without reliance on cloud services. Cloud connectivity is an optional feature and not essential for standard surveillance operations; therefore, the absence of cloud support does not impact system performance or project objectives and may be accepted.	
6.	Item-1: 5 MP or above Bullet IP Camera (AI) - Metal or Metal & plastic Body – 4 Qty. for each location (989*4=3956) Serial No:28 Item-2: Item-2: 5 MP or above Dome IP Camera (AI) - Metal or Metal & plastic Body – 2 Qty. for each location (989*2=1978) Serial no:30	14& 16	Audio Input (Inbuilt Mic) Yes	Audio input : yes remove Inbuilt mike The camera supports external audio input through a dedicated audio port, which provides greater flexibility in microphone placement and improved audio quality compared to an inbuilt microphone. External microphones also simplify maintenance and replacement without impacting camera hardware. Hence, external audio input may be considered functionally equivalent to an inbuilt microphone.	Audio Input: Yes (Inbuilt or External mic)
7.	Item-2: Item-2: 5 MP or above Dome IP Camera (AI) - Metal or Metal & plastic Body – 2 Qty. for each location (989*2=1978) Serial no:12	16	Range: Pan: 0° to 360°, Tilt: 0° to 75°, Rotation: 0° to 360°	Pan: 0° to 330° Tilt: 0° to 75° Rotate: 0° to 330° The offered pan and rotation range of 330° provides near-full coverage and is sufficient for practical surveillance applications. The minor reduction from 360° does not create blind spots in real-world installations, as camera mounting orientation compensates for this limitation. Therefore, the offered range meets operational requirements.	Range: Pan: 0° to 330° or better, Tilt: 0° to 75° or better, Rotate: 0° to 330° or better
8.	Item-2: Item-2: 5 MP or above Dome IP Camera (AI) - Metal or Metal & plastic Body – 2 Qty. for each location (989*2=1978)	16	IR LED Quantity: 4 Range: 30m Wavelength: 850nm	Quantity: 3 Range: 30m Wavelength: 850nm The offered IR illumination achieves the same effective range (30 m) and wavelength (850 nm) as specified. Illumination performance depends on optical design and power efficiency rather than the number of LEDs alone. Hence, three IR LEDs delivering the required range provide equivalent night-time performance.	IR LED Quantity: 3 or above, Range: 30m, Wavelength: 850nm

#	Reference, clause no.	Pg. #	Content of RFP requiring clarification	Points of clarification from the Bidder	Clarification to queries
	Serial no:13				
9.	Technical Specifications Sub-clause Item-3: 8 Channel NVR - 1 Qty for each location (989) Serial No.17	17	Disk Group: Yes	No Request to change to Disk Group Yes to No Justification: A single-disk storage architecture simplifies system design and maintenance while still meeting recording and retention requirements. Disk grouping is an optional storage management feature and does not affect recording reliability or system performance for the intended application.	Clause Deleted
10.	Main Clause: D Technical Specifications Sub-clause: Item-16: VMS Server - 1 no.	22	VMS Server specifications	1. Please confirm the maximum camera count and concurrent users to be considered for VMS sizing, and whether High Availability / Failover is required or not. To enable bidders to propose compliant and appropriately sized VMS infrastructure. 2. Please clarify whether the Video Management System (VMS) is required to be implemented in a centralized or decentralized/distributed architecture. Additionally, please specify whether video recordings are to be stored centrally at a central data center/command center or locally at each location/site, or in a hybrid model. This clarification is essential to finalize the overall system architecture, including server sizing, storage planning, network bandwidth requirements, redundancy, and disaster recovery strategy.	The system shall use distributed architecture, with local recording at 8-Channel NVRs and AI detected Clips stored at Central Site (APSDC/APSCAN/Dept). It must support all cameras
11.	Main Clause: D Technical Specifications Sub-clause: Item 17: Analytics Servers (as required).	26	Analytics Servers – As required	For 5,934 camera streams, please specify either (a) the exact number of Analytics Servers, or (b) the maximum number of camera streams per Analytics Server, including whether sizing should consider $\pm 25\%$ future camera increase. To ensure consistency in analytics server sizing and commercial quoting.	a) 6 Analytic Servers with 4 GPUs in each Server. In case the Bidder proposes more server(s), the same may be quoted against this line item and the details of additional servers quoted against this may be mentioned in the technical bid with proposed make, model, part number etc.,

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12.	Main Clause: D Technical Specifications Sub-clause: Item 17: Analytics Servers (as required).	26	Analytics Server – AI processing	Please confirm whether all listed AI features are expected to run simultaneously on all cameras, or selectively. To correctly dimension analytics infrastructure as per functional requirements.	The AI features may be selectively enabled and configurable on a per-camera basis, depending on the camera's location and intended monitoring purpose. The indicative configuration is as follows: For Garbage recognition, Recognition of violent incidents, Identifying the mischiefs like turning the camera direction and obstructing the cameras to be configured in all the cameras, and the remaining cameras all to be configured with required AI features based on the location and site in-charge direction.
13.	Main clause: Section D Item-16: VMS Server - 1 no. Sub clause:Serial no:20	26	Cloud Enabled Monitoring and Management		Clause Deleted
14.	Main clause: Section D Item 17: Analytics Servers (as required)Sub cluse:Serial no:20	31	Cloud Enabled Monitoring and Management		Clause Deleted
15.	Main Clause: E Technical Bid Evaluation Criteria Sub-clause: Serial No:4	35	EXPERIENCE OF THE BIDDER/consortium/ OEM IMPLEMENTING one AI based cameras project with analytics in a Single Project Consisting of minimum 800 cameras. Number of Bullet Cameras: Criteria Marks 800 - 1200 10 1201 - 1500 20	1. Experience of the Bidder/Consortium/OEM in implementing IP-based or AI-enabled camera projects with video analytics, executed across one or more projects, with an aggregate deployment of at least 800 cameras. Number of Bullet / PTZ / Box Cameras. Modern IP-based cameras integrated with video analytics platforms are capable of delivering advanced AI functionalities, either through edge-based processing or via centralized analytics systems. Limiting eligibility only to projects involving explicitly "AI-based cameras" may	EXPERIENCE OF THE BIDDER/consortium/ OEM implementing one or more AI supported cameras project with analytics in multiple Projects with aggregate deployment of minimum 600 cameras. Number of Bullet/ PTZ Cameras: Criteria Marks: 600-1000 10 1000 - 1200 20 >1200 30

#	Reference, clause no.	Pg. #	Content of RFP requiring clarification	Points of clarification from the Bidder	Clarification to queries
			>1500 30	unnecessarily restrict competition. Hence, it is requested to consider IP-based camera deployments with analytics across multiple projects for eligibility. Box and PTZ cameras, depending on operational requirements and deployment scenarios, offer functionality comparable to bullet cameras. Restricting the criteria solely to bullet cameras may reduce participation. Therefore, it is requested to allow Box and PTZ cameras in addition to bullet cameras. 2. Request to amend "EXPERIENCE OF THE BIDDER/consortium/OEM OF IMPLEMENTING IP or AI based cameras project with Video analytics in Multiple Project Consisting of minimum 800 cameras" 1. Request to amend "Number of Bullet/PTZ/Box Cameras" .1). IP based cameras with analytics can also perform AI functions either onboard or via integration with centralized analytics platform. In view of this, restricting to AI based camera project is limiting the participation in this RFP and request to consider IP based camera in multiple projects also 2). The functionality of Box/PTZ cameras are comparable to bullet cameras depending on use cases. In view of this, restricting to bullet cameras is limiting the participation in this RFP and request to consider Box/PTZ cameras also 3. It is requested to relax the requirement to include ongoing projects or projects of similar technical complexity. TCIL is a premier CPSE with extensive experience in large-scale ICT and Govt-led projects. Allowing ongoing projects will enable the department to leverage TCIL's expertise and proven capabilities with its long-term technology partners.	

#	Reference, clause no.	Pg. #	Content of RFP requiring clarification	Points of clarification from the Bidder	Clarification to queries
General :					
16.				1.Please clarify the average number of people to be considered within the Hostel premises for the purpose of Facial Recognition system design and calculation. This clarification is required to accurately size the Facial Recognition solution, including database capacity, licensing, compute resources, storage, and expected system performance. Population assumptions directly impact facial template enrollment, matching load, accuracy levels, and response times. 2.Please clarify who will be responsible for providing and maintaining power supply and internet/network connectivity for the proposed system. Kindly specify whether these utilities will be provided by the department or are to be arranged by the bidder as part of the project scope. This clarification is essential to clearly define scope of work, cost responsibilities, and SLA applicability. Availability of uninterrupted power and reliable internet connectivity has a direct impact on system uptime, analytics performance, alert delivery, and overall service levels. 3.If hostels have existing internet connectivity, please specify the type of connectivity (such as leased line, fiber, broadband, or wireless) along with the available bandwidth (uplink and downlink) at each location. This clarification is required to assess the adequacy of existing network infrastructure for supporting video surveillance, analytics processing, and real-time alert transmission. The type and available bandwidth of internet connectivity directly impact system architecture, performance, latency, and reliability.	1. An average of 200-300 individuals per hostel. 2.The department will provide standard 230V AC power outlets and a broadband internet connection point at each location. The bidder is responsible for all equipment, cabling, switches, and Wi-Fi/WAN optimization needed to create a functional network. 3. The Department is responsible for ensuring that each of the 989 hostel sites is equipped with a stable and sufficient internet/MPLS connection. The required bandwidth details are to be provided by the bidder in the technical bid.

Annexure - II

Cost Sheets: Form F-1

Ref: Procurement of AI based CCTV infrastructure to O/o Social Welfare, GoAP., – Regarding.

Social Welfare hostels (989 Nos) = 989 Total Locations

Sl. No.	Item Description	Unit Price without taxes (Rs.)	Taxes/ Duties etc on unit Price (Rs.)	Unit Price with all taxes (Rs.)	Total Qty. (Nos.)	Total price with taxes and duties etc (Rs.)
1	2	3	4	5 (3+4)	6	7 (5*6)
1.	5 MP or above Bullet IP Camera (AI) - Metal or Metal & plastic Body				3956	
2.	5MP or above Dome IP Camera (AI)- Metal or Metal & plastic Body				1978	
3.	8CH NVR with power				989	
4.	4TB Surveillance Hard Drives				989	
5.	8-Port PoE Switches				989	
6.	4U Rack with PDU				989	
7.	Cat6 UTP Cable - 305 Meters bundle as per actuals (305*989)				301645	
8.	600 VA UPS				989	
9.	32" LED Display with 10 Meters HDMI Cable and Wall mount				989	
10.	Accessories – Required UPS connection for Racks				989	
11.	PVC Conduit @ 1 Mtr as per actuals (300*989)				296700	
12.	Network and Electric Accessories				989	
13.	Workstations (At all DHQs & SW Commissionerate (1 no in each 27 District location)				27	
14.	VMS servers : In case the Bidder proposes more server(s), the same may be quoted against this line item and the details of additional servers quoted against this may be mentioned in the Technical bid with proposed make, model, part number etc.,				1	
15.	Analytics Servers: 6 Analytic Servers with 4 GPUs in each Server. In case the Bidder proposes more server(s), the same may be quoted against this line item and the details of additional servers quoted against this may be mentioned in the Technical bid with proposed make, model, part number etc.,				LS	
16.	55" LED Display (At all DHQs & SW Commissionerate (54 nos for 27 locations)				54	
17.	Backup Storage – 300TB for Social welfare hostels				1	
18.	Video Management Software (VMS) software with analytics license				LS	
19.	Web application for AI features and mobile app for reporting untoward incidents for above cameras				LS	
	Grand Total Price					

Note:

- 1) The bidder must enter the **Grand Total Price (including GST) on APeProcurement portal**.
- 2) The bidder must upload all Financial Forms breakup sheets on to the APeProcurement portal at the time of Bid submission.

(Please note that no price information/commercial forms should be indicated/submitted in the Pre-qualification bid, technical proposal and shall only be quoted in the commercial bid. Failure to comply with the same may result in the rejection of the bid.)

(To be uploaded in the e procurement portal under financial bid)