



CENTRE FOR DEVELOPMENT OF IMAGING TECHNOLOGY (C-DIT)

Chitrangali Hills, Thiruvallam, Thiruvananthapuram-27

Phone: 0471-2380910, 912

No. C-DIT/09/GN-BPUNCH/2026-27/T871

Date: 24.09.2026

TENDER NOTICE

**TENDER FOR THE SUPPLY AND INSTALLATION OF BIOMETRIC FACE
RECOGNITION SYSTEM**

Sealed tenders are invited for the **Supply and installation of Biometric Face Recognition System with inbuilt software – 2 Nos at C-DIT Office, Pattom, Thiruvananthapuram**. The envelopes containing the tender should bear the superscription **“Supply of and installation of Biometric Face Recognition System”** and should be addressed to The Registrar, Centre for Development of Imaging Technology (C-DIT), Chithranjali Hills, Thiruvallam, Thiruvananthapuram 695027. Intending tenderers may submit the tenders on their own papers by post/hand along with a duly signed copy of this tender notification or confirmation of the terms and conditions. Last date for receipt of tenders is **29.09.2029, 3.00 PM**. The tenders will be opened at **3.10 PM on the same day** in C-DIT office in the presence of the tenderers or their authorized representatives who may be present at that time.

Thiruvananthapuram

23.09.2026

Sd/

REGISTRAR

SPECIFICATIONS & REQUIREMENT
BIOMETRIC FACE RECOGNITION SYSTEM WITH INBUILT SOFTWARE
Quantity – 2 Nos

Sl No.	Particulars	Specification
1	Authentication Methods	
	Face Recognition	Mandatory
	Fingerprint Authentication	Mandatory
	RFID / Smart Card	Optional
	Password / PIN Authentication	Optional
2	Face Recognition Specifications	
	Face Template Capacity	Minimum 10,000 users
	Recognition Distance	0.3 m to 2 m
	Recognition Speed	Less than 1 second
	Recognition Accuracy	≥ 99%
	Mask Detection	Supported
	Glasses Detection	Supported
	Anti-Spoofing	Mandatory (Protection against photo/video replay attacks)
3	Fingerprint Specifications	
	Fingerprint Capacity	Minimum 10,000 fingerprints
	Sensor Technology	Optical / Capacitive
	Fingerprint Matching Speed	Less than 1 second
	False Acceptance Rate (FAR)	≤ 0.0001%
	False Rejection Rate (FRR)	≤ 0.01%
4	Attendance Data Storage	
	Attendance Transaction Storage	Minimum 500,000 logs
	Offline Attendance Storage	Mandatory
	Network Failure Handling	Automatic local storage during network failure
	Data Synchronization	Automatic synchronization after network restoration
5	Display and User Interface	
	Display Type	Color Touch Screen

	Display Size	Minimum 5 inches
	User Interface	Graphical User Interface (GUI)
	Language Support	Multi-language support including English
6	Communication Interfaces	
	Ethernet	TCP/IP through RJ45 port (Mandatory)
	Wi-Fi	Optional
	USB Port	USB Host support for data backup/export
7	Network and Security Requirements	
	Secure Communication	HTTPS support
	Encryption	SSL/TLS encrypted communication
	Device Authentication	Supported
	Access Control	Supported
	User Management	Role-based access control (Admin/User)
8	API Integration Requirements	
	The biometric attendance system shall provide open API access for integration with external applications such as:	HRMS systems
		ERP systems
		Payroll systems
		Custom enterprise applications
8.1	Supported API Standards	
	REST API	Mandatory
	Data Format	json format
	Webhook / Push API	Preferred
	API Authentication	API Key / Token Based Authentication
	OAuth2 Support	Preferred
9	Mandatory API Endpoints	
	User List Retrieval	Mandatory
	Attendance Log Retrieval	Mandatory
	Device Status Monitoring	Mandatory
	Real-time Attendance Events	Mandatory
	Employee Registration	Mandatory
	Employee Update	Mandatory
	Application Integration Compatibility	

10	The proposed solution shall support integration with applications developed using:	Linux-based servers
		Windows-based servers
		Laravel / PHP applications
		Node.js applications
		Python applications
		Java applications
		.NET applications
11	The vendor shall provide:	API documentation
		SDK documentation
		Sample integration code/examples
		Technical assistance during integration
12	Power Requirements	
	Input Voltage	100-240V AC
	Battery Backup	Minimum 2 hours
	Protection	Surge protection and power fluctuation protection
13	Environmental Specifications	
	Operating Temperature	0°C to 45°C
	Relative Humidity	20% to 80% (Non-condensing)
14	Warranty and Support Requirements	
	Warranty	Minimum 3 years onsite warranty
	Firmware Updates	Included during warranty period
	Technical Support	Required
	API Integration Support	Required
	Defect Resolution	Onsite support
15	Sample API Requirements	
	Get Attendance Logs	GET/api/v1/attendance?from=2026-07-01&to=2026-07-31
	Response	{ "employee_id": "EMP001", "name": "John Doe", "device_id": "BIO-TRV-01", "timestamp": "2026-07-23T09:12:45+05:30", "mode": "FACE", "status": "IN" }

TERMS & CONDITIONS

1. Supply and installation should be made at ICT Complex, CDIT Office, Pattom, Thiruvananthapuram, Pin 695004 within 3 days. Contact person: **Sri Afsal Rahman, TL (Cloud service) Mob:.8891960354.**
2. **Rate:** The rate quoted should be inclusive of GST as applicable.
3. The rate quoted by the bidder shall be inclusive of all taxes, transportation charges, service charges and installation charges at site.
4. Bidder shall invariably be accompanied by manufacturer's catalogues and leaflets giving full specifications. Technical particulars and other details of the items offered, 'brand make' and complete specification should be mentioned in the tender. In the absence of full details and technical specification the tenders for the items will be rejected.
5. **Rate quoted by the bidder shall be valid for a period of three months from the date of opening of the tender.**
6. Statutory taxes to be deducted at source, if any, will be deducted from the payment due.
7. **The bidder should submit Valid GST and PAN (Copies of document Should be submitted).**
8. CDIT 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.
9. CDIT 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.
10. No advance payment will be made against supplies.

- 11.Warranty:** The bidder should provide One year OEM warranty for the product offered.
- 12.The bidder shall also provide three years after sale support service for the product installed.**
- 13.Payment Terms:** 100% payment against successful supply and submission of invoice.
- 14. Agreement:** The Successful bidder within 7 days of getting confirmed purchase order has to enter an agreement with C-DIT in Rs.200 worth non judicial stamp paper, to ensure warranty of the products installed.
- 15.Authority:** The authority for the acceptance of the tender's rests exclusively with the C-DIT
- 16. The last date for submission of tender 29.09.2026, 3.00 PM. The tender will be opened on the same day at 3.10 PM**
- 17.If the bidder has any doubt on above specifications, please contact Sri Afsal Rahman, TL (Cloud service) Mob:.8891960354**

Our GSTIN is 32AAATC1823F1ZF

Sd/
REGISTRAR, C-DIT
Dated 24.09.2026