Expression of Interest
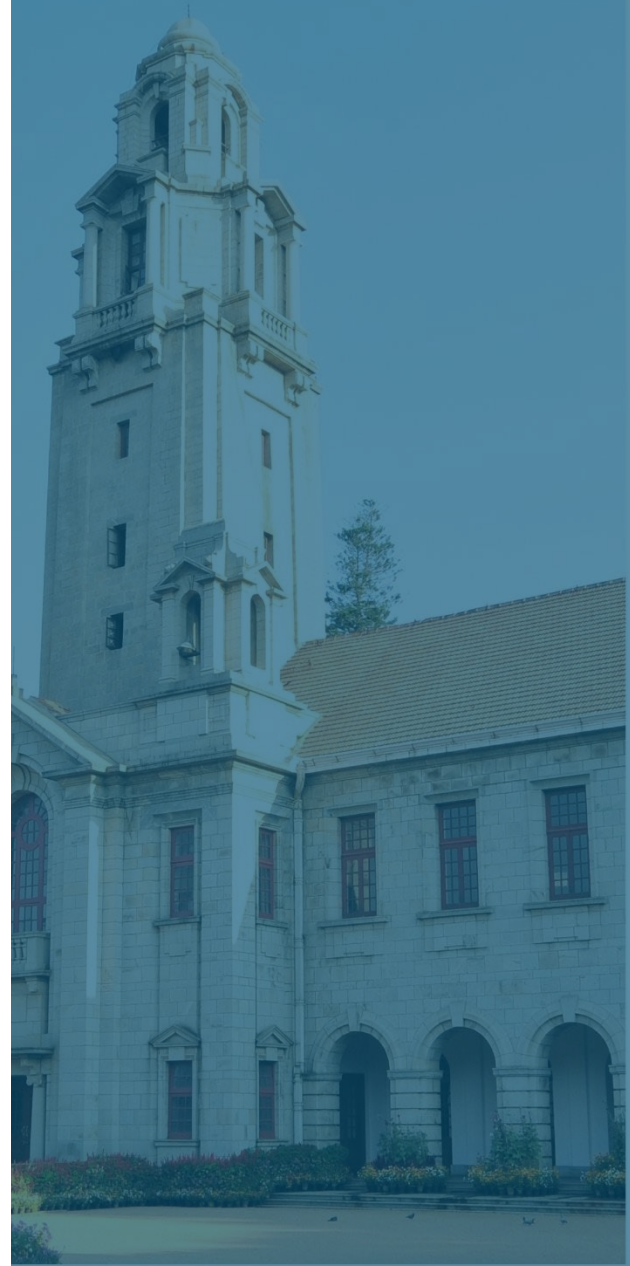
for

Supply and implementation of

Access Control Card System

for

Indian Institute of Science,

Bangalore

Contents

Schedule of Events

1.	**Office of Issue**	**DIGITS, Indian Institute of Science (IISc), CV Raman Avenue, Bangalore-560012**
2.	**Date of floating the EoI**	Date: 09.10.2025
3.	**Last Date of Submission of Queries**	Date: **17.10.2025** Time:**1700 hours IST**
4.	**Last Date of Submission of EoI**	Date: **31.10.2025** Time: **1700 hours IST**
5.	**Technical Presentation**	On a subsequent date, which will be communicated to such bidders who qualify in the technical bid.
6.	**Contact Details**	office.digits@iisc.ac.in

Background

The Indian Institute of Science, located in Bangalore, is a renowned institution that has been a leader in research and education since its establishment in 1909. The Institute's focus on cutting-edge research and innovation has enabled it to make significant contributions to scientific discovery and technological advancement, both in India and around the world. The Institute's commitment to academic excellence is reflected in its rigorous academic programs, world-class faculty, state-of-the-art research facilities, and diverse student body. With a long and illustrious history, the Indian Institute of Science is a proud symbol of India's commitment to scientific progress and intellectual achievement.

DIGITS (Digital Campus and IT Services) Office serves as the hub for digitalization at IISc. It is a dedicated unit that plans and develops cutting-edge information technology (IT) and networking systems for the campus, as well as provides agile IT and networking services to promote operational excellence at the Institute.

We are pleased to invite Expression of Interest (EoI) from eligible vendors to supply and implement a secure, scalable, and integrated access control card system for our institute facilities. The solution should support physical access control, user management, and integration with existing IT and HR systems. Our organization is committed to providing innovative and secure solutions to our stakeholders, and we recognize the critical role that access card technology plays in achieving this objective.

The aim of this EoI is to identify vendors who have the necessary expertise and experience to supply, install, customize, commission, and as an add-on manage a state-of-the-art access card systems that meet the unique needs of our organization. We are seeking a vendor who can work collaboratively with us to deliver a high-quality product that

enhances our security.

We are committed to a fair and transparent selection process that ensures a level playing field for all interested vendors. This EoI document provides detailed information about the scope of work, eligibility criteria, evaluation methodology, and submission guidelines. We encourage all eligible vendors to submit their EoI and participate in this exciting opportunity to work with our organization.

Currently, IISc faculty, staff, and students are issued printed ID cards without RFID or NFC. To manage access restrictions, IISc has decided to set up an access control card system.

Eligibility Criteria

- The bidder must possess adequate knowledge in the domain of installing, customizing, commissioning, and managing access card systems.

- They should have executed at least two projects of a similar nature that has been deployed in a large academic campus or in any public/private organization with more than 5000 employees, and should attach a copy of the purchase order/work completion certificate from clients as proof.

- Additionally, vendors will be required to make a presentation to a technical committee to explain their methodology for meeting IISc's requirements.

- If the committee deems it necessary, the vendor may also be asked to arrange for a PoC/Demo.

- The vendor must have a registered office in India and must have been in operation for at least 5 years as on 01.10.2025. Joint ventures or consortia are not permitted.

- The vendor is expected to be a company with an annual turnover of at least the estimated cost of this order in each of the last 3 financial years.

- The vendor must have branch/regional/zonal/Head office in Bangalore with Service/Support Engineers posted in Bangalore.

- The vendor must not have been blacklisted by the Central Government/State Govt./PSUs/Any other Govt. Agency/ Govt Educational Institute/University in the last 10 years; declaration required.

- The solution should come only from the Indian Original Equipment Manufacturer (OEM) or their Indian authorized distributor.

- Vendors offering imported products will fall under the category of non-local suppliers. They cannot claim themselves as Class-1 local suppliers/Class-2 local suppliers by claiming the services such as transportation, insurance, installation, commissioning, training, and other sales service support like AMC/CMC, etc., as local value addition.

- Only 'Class-I local supplier' and 'Class-II local supplier', as defined in the Public Procurement (Preference to Make in India), Order 2017 shall be eligible to bid in tender. For more details, please refer: Order No.: P-45021/2/2017-PP (BE-II), DPIIT, Ministry of Commerce and Industry and relevant orders issued by any concerned ministry from time to time.

- Must comply with CMMI Level 5, Six Sigma, and IEC/ANSI/ISA-62443-4-1-2018 standards

- Firmware must be digitally signed and support PGP encryption

- Must provide localization, secure firmware upgrades, and custom API support in India

- Must have ISO certifications: ISO 9001, 14001, 45001, 27001

- Must own direct support centers and a toll-free helpdesk in India for at least 5 years.

- Must not source critical components from China.

- MSMEs can seek an exemption to some qualification criteria. Check GFR2017.

- The any cost mentioned in the proposal should be in INR only.

Selection Criteria (for eligible vendors, screened as above)

- Technical Fit
- Cost-Effectiveness
- Implementation Timeline
- Experience and References
- Support and SLAs

After the technical presentation, an expert committee will shortlist 3 or 4 potential vendors. Who would subsequently be sent an RFQ with detailed specifications of the project.

Scope of Work

The selected vendor will be responsible for

- Supply and printing 7000 access cards for IISc faculty, staff and students
- Supply and installation of 5 boom barriers.
- Supply of 2000 hologram/RFID stickers for cars.
- Supply of 1000 access cards for visitor access cards with time-limited permission
- Supply and installation of 500 card readers, controllers, and door locks.
- The system must be scalable to allow biometric access control.
- Provide access control software with an admin portal
- Configure access permissions, schedules, and zones
- Integrate with existing SAP and Microsoft for attendance and authentication
- Train administrators and support staff
- Provide post-implementation support and maintenance

Project Details

Access Card system Architecture

Access Control System with RFID Smart Card and Visitor Management Sy'
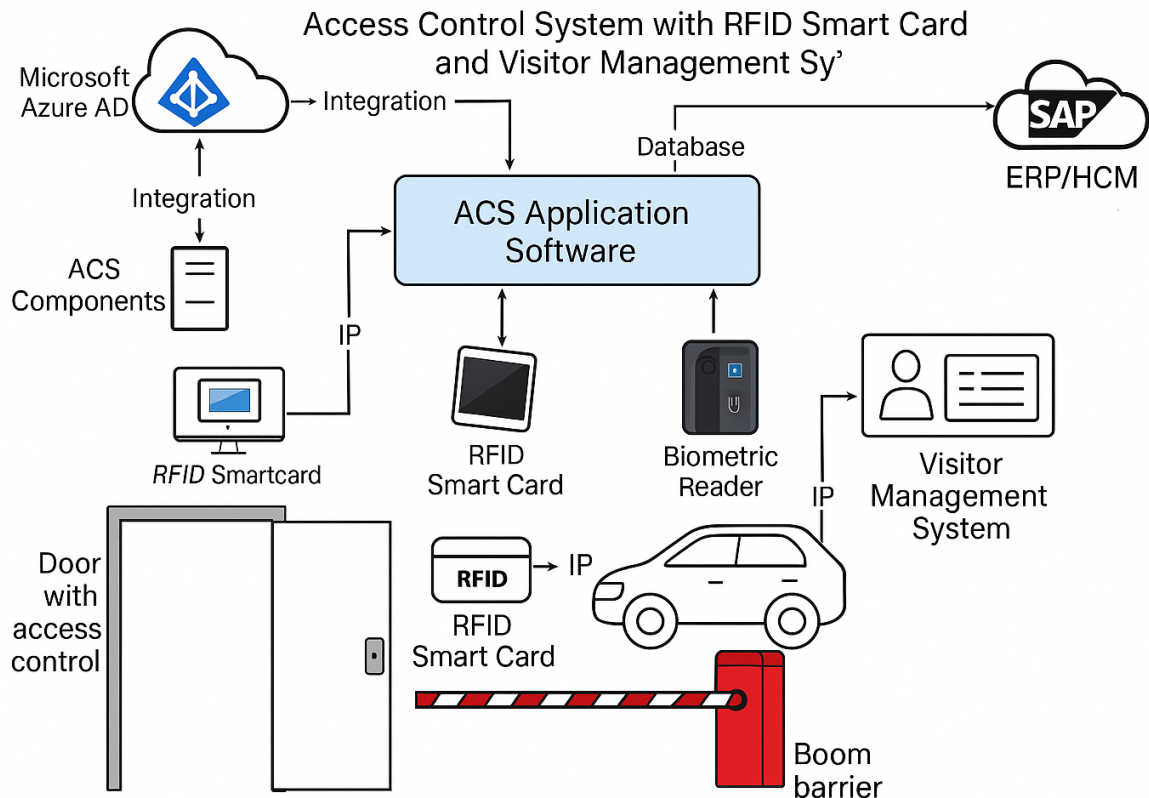
Documents Required for Validating Eligibility Criteria

- Certificate of incorporation or registration of the company.
- PAN (Permanent Account Number) card of the company.
- GST (Goods and Services Tax) registration certificate.
- References or testimonials from previous clients or projects.
- Technical proposal outlining the vendor's approach to developing the mobile application, including details of the technology stack, methodologies, and tools to be used.

Technical Requirements

Card Technology

- RFID or NFC-based smart cards (ISO 14443)
- Optional: Mobile credential support (Android/iOS)
- Tamper-resistant, encrypted communications (e.g., AES-128)

Hardware

- Boom barriers for vehicle access control
- Indoor/outdoor card readers (IP65-rated)
- Electronic door locks (fail-safe/fail-secure options)
- Central control panel with Ethernet/IP connectivity
- UPS or power backup solution.
- All hardware must reside on IISc premises

Software

- Web-based admin interface
- Role-based access permissions
- Real-time alerts and monitoring
- Audit logs exportable in CSV/PDF
- API access for 3rd-party integration
- All software and data must reside on IISc premises during all operations and DR conditions.

Compliance

All components and systems must comply with the following certifications and standards:

- CMMI Level 5, Six Sigma, ISO 27001, IEC/ANSI/ISA-62443-4-1:2018
- UL 2900-1 Cyber Certification, STQC VAPT, NIST, ISO-27032
- FCC Part 15 & 68, UL294, UL1076, NFPA70
- FIPS 197 & 201, HSPD-12, NERC CIP-005-7
- FICAM PACS Infrastructure APL Listed, PSIA, GDPR Compliant
- AES 256-bit Encryption, TLS 1.2, OSDP v2.1.6, RS232C, RS485
- IPV4/IPV6, SNMPv3/v2c, SSL, DHCP, 802.1x NAC

Visitor Management System Features

- Pre-registration via web/mobile
- QR code or smart badge issuance
- Touchless check-in/check-out
- Host notification and watchlist alerts
- Real-time tracking and audit trail
- Integration with ACS for access privileges
- Kiosk-based and remote registration options
- MIS reports for visitor access, overstay, blacklist, and muster point attendance

Compliance & Warranty

- Minimum 5-year comprehensive warranty including hardware, software, and services
- Operations & Maintenance (O&M) support for at least 3 years post Go-Live

- Preventive Maintenance every 3 months
- Compliance with 21 CFR Part 11 Part B for digital signatures and audit logs
- Equipment must be new and non-refurbished.

Proposal Format

- Executive Summary
- Company Overview
- System Architecture Diagram
- Functional Capabilities
- Implementation Plan & Timeline
- Warranty and Support
- Total Cost of Ownership (TCO) in INR only
- Client References

Integration Capabilities

- Integration with SAP for automated HR provisioning and deprovisioning
- Support for Microsoft OAuth / Azure Active Directory for authentication
- Interfacing with Visitor Management Systems including visitor badge issuance

How to Submit the EoI

EOI with all enclosures should be emailed to office.digits@iisc.ac.in or posted to the DIGITS, Indian Institute of Science, Sir C V Raman Road, Bengaluru – 560012.

IISc reserves the right to reject any/or all the EOIs without assigning any reasons whatsoever

Reuse of existing infrastructure

There are a few boom barriers that are installed state but not in use and some car stickers that if supported and are found to be in working state should be reused. Further details will be shared during the technical presentation. Pictures of the boom barrier, car sticker reader and car sticker are shown below.

Annexure II

Self-Declaration Format

Ref. No.:   Date:

To,

The Chair,

DIGITS, Indian Institute of Science

With reference to my/our expression of interest in IISc, it is hereby declared that I/ (name of firm) was not declared ineligible for corrupt & fraudulent practices either indefinitely or for a particular period by any Govt or other agency.

I/ (name of firm) also declare that there are no contractual restrictions or legal disqualifications or other obligations which will prohibit me from/ entering this bid, and each one of the statements and particulars contained herein is correct.

Signature of the Applicant

Date:

Place:

Seal