BIDDING DOCUMENT

STANDARD BIDDING DOCUMENT
FOR PROCUREMENT OF GOODS

TECHNICAL PROPOSAL

TENDER-2017 /20

TENDER DOCUMENTS FOR SUPPLY & INSTALLATION OF TRIPOD TURNSTILE GATE /SECUIRTY SYSTEM WITH CONTROLLER &RFID READER INCLUDING SOFTWARE & NETWORKING (TURNKEY SOLUTION) 3 SETS.

Name of Department	Directorate of Planning & Development
Name of procuring agency	SINDH MADRESSATUL ISLAM UNIVERSITY Aiwan-e-Tijarat Road, Shahra-e-Liaquat, Karachi-74000, Pakistan Tel : 021-99217501-02-03 Fax : 021-99217504 Website: www.smiu.edu.pk

Technical Requirement /Specifications

"Supply, installation, implementation, commissioning, training and integration of tripod turnstile gate / security system with controller, & RFID reader including software, wiring, fencing and networking (turnkey solution) 3 sets".

SCOPE OF WORK

Scope of work for the selected bidder shall include supply, installation, implementation, commissioning, training, integration of smart card based security system and its integration with existing Systems, like PeopleSoft ERP and attendance management systems.

Bidder shall be providing user manual,36 months' warranty & comprehensive support for the total solution including all hardware, software, materials, services etc. for installing the Electronic Arm Barriers & Smart Card based Physical access control system, Visitor Management System at SMIU location mentioned in this tender; the scope also includes enrollment and personalization for all SMIU students, employees contract employees are covered under access control system.

Successful bidder will have to submit/presents the detailed documentation on the planned scheme and schedule for the implementation of access control system at desired locations of SMIU, including features of its application software, various reports, MIS on daily and monthly accesses information, suggested design on Smart Cards, training requirements etc. Bidder shall be required to modify incorporate all information, suggestions and functionality as required and communicated to it by SMIU.

In terms of scope, the vendor shall design, supply, install, commission and conduct performance test of access control system including Turnstile, electronic arm barriers and visitor management system etc.

The system shall be designed to be adaptable/conforming to prevailing international standards (e.g. ISO/IEC, UID) and based on open standard platform. The system shall be inter-operable.

Terms & Conditions

- The system shall provide future system expansion capability, using scalable hardware and software solutions and with the provision of non-proprietary external interface integration points for the database and application functions.
- The system shall have flexibility for up-gradation and expansion in all respects depending on future requirements with standard modules.
- All the access control security equipment installed will be interconnected and function as on system.
- The system shall support card readers and shall support up to 5,000 cardholders.
- The system / card encoding shall be compliant or compatible with international standards to enable future multiple application use of the smart cards and other convenience uses.
- Synchronizing the timing on the access controllers, readers, visitor management system client software and all devices in access control system network should be from the central ACS Servers /software.
- The electronic circuits used in the system shall be of solid state fail safe design and be provided with proper coating to have resistance to humidity and corrosion which enables the operation from being impaired by dust and dirt.
- The system shall adhere to a centralized architecture, with centrally located application.
- Access control system shall have redundant, hot standby architecture. Change over from the active system to the hot standby system shall be automatic without any manual intervention.
- Network communications shall utilize TCP/IP network communication protocol. The system shall monitor attempted unauthorized entry and other incidents and alarms and reports/ log those for alarm notification and further action.
- On the registration of all the existing regular entrants (employees, contract staff) shall be done by the vendor. Necessary training will be provided by the vendor to concerned staff of SMIU.
- Card readers at different locations shall be connected through laying of Cat 6 cable including all network provisions TCP/IP with I/O box etc. will have to be done by the bidder.

- UPS power supply shall be provided by SMIU from one point at the central control room at Ground Floor Admin block main campus
- Vendor will have to provide the required connections and wirings for the supplied equipment.
- All ACS network equipment shall be IPv4 compliant.
- Sufficient resilience / redundancy and logic shall be provided to assure that the availability objectives can be met without manual intervention. The access control hardware shall be designed so that there is no single point of failure that can cause operations to be disrupted.
- System components shall be independent the capable of co-existing on the system to allow for an increased level of capacity. Modular design and flexibility shall be provided for easy expansion of the system to the extent specified without degradation of the systems performance.

SYSTEM DESCRIPTION

- Access control system shall be integrating with existing PeopleSoft ERP system and HR Attendance Management System of SMIU.
- The solution shall be based on individual smart card to be issued to entities (as ID-cum security for personnel).
- The controller and reader shall provide and electrical interface to the system operator shall also perform the credential data storage processing, controlling, transaction logging and decision taking tasks at the edge level for uninterrupted system function even in case of a link failure.
- A security control room shall have a panic switch connected to the local controller to be used in emergency/ duress situations with a control for allowing free passage in case of emergency evacuation.
- Access control software system wiring shall use structured cabling scheme comprising 4 pair Cat6 cable for IP connectivity, 5 pair IS-694 compliant 1 sq mm cable for Wigand data communication, 3 pair IS -694 compliant 1 sq mm cable for control data communication (Turnstiles, electronic arm barriers and emergency release switch) And 3 cores.
- Compliant cable for power. The entire access control system shall use a structured and stabilized power supply with power back up to 3 hours.

- The following is the least (but not limited) equipment / software list with access control system.

-Access control software, visitor management software.
- Visitor management software including printer.
- Access control Controller.
- Turnstiles.
- Panic Switch
- Electronic arm barriers.
-other networking items.

Software Descriptions

Enterprise level access control & visitor management software

Enterprise level software for the access control, visitor management, guard tour, GUI, Anti-passback, Reports in Inbox, Unlimited User Log-ins, Door Scheduling, Unlimited logins, POP UPS, Evacuation Control Management (Muster Module), Shift Roasters & Management, Air Locking etc.

Any sort of customizations whether its Client, Report Fields, Input Fields, Integration or any other should be possible/offered and could be done if asked.

Define company(s) and branch(s)

1. System – Administrator login to:
    a- Define multiple companies (complete confidentiality of each company data from other company's administrator.
    b- Define multiple branches of a company.
    c- Add administrator to a company.
2. Define time zone for each branch server will automatically synchronize each controller time in accordance with time zoned of associated branch.
3. Automatic controller time resetting on controller time deviation form server time.
4. Support for day saving time.
5. Define tiles/ designation for a specific branch
6. Define department for specific branch.
7. Define 16 custom fields for a company.

8. Import employee ledger form excel an excel sheet to the database Map excel sheet columns to database field names.

TECHNICAL SPECIFICATION

SR	Description
1	**TRIPOD TURNSTILE, HALF HEIGHT FINISH, FULLY AUTOMATED (ZKT/ Delos or equivalent)** • Basic Parameter Product ± 1220*275*1000mm (Length*Width*Height) Dimension Arm 520mm • Length beyond the turnstile 470mm • Width of passage ≤520mm • Arm Diameter 38mm • Rotation Angle 120° • Material Stainless steel (304) • Surface Finish Brush finish • Net Weight 65-85Kg • Power AC 220V/110, 50-60HZ • Control Signal Dry contact signal, TTL signal, low level pulse signal with pulse width＞100ms • Common Control Method Swipe card, remote control, manual control, etc. • Direction One-way/two-way settable • Passing Flow Normal passing speed: 25 persons/min • Fire Alarm /Emergency Power off Arm fall automatic, free for passing • Working Temperature -20℃~+50℃ IP IP65 • Working Environment Indoor/outdoor use (It is supported to use flashing)

2	**Contactless smartcard reader / Controller** Reader Specification: • IEEE 802.3 Ethernet Standards • Sleek and aesthetic design • Supports up to 40,000 users • IP Rating IP65, Dust & Water Proof • PoE, TCP/IP, RS-485, Wiegand, Relay interface • smartcard reading 125KHz • Certificates CE, FCC, KC, RoHS • Max. User (1:1) 40,000 • Max. Text Log 50,000 • LED Indicator Multi-Color • Operating Temp. -20° to 50°C • Power - Min. 10.8 VDCTyp. 12 VDCMax. 13.2 VDC • Switch Input VIH Min. 2.0 V Max. 10.0 V • Switch Pull-up Resistor - 4.7 kΩ (The input ports are pulled up with 4.7kΩ resistors.) • TTL/Wiegand Output VOH 5 V • TTL/Wiegand Output VOL 0.8 V • TTL/Wiegand Output Pull-up Resistor 4.7 kΩ (The outputs ports are open drain type, pulled up with
	Contactless RFID Cards Plain CR80 size Blank Pre-Programmed • long range 125KHz RFID card • Operation Frequency: 125KHz • Size:55mm x 86mm x 1.5mm • Detecting distance: 1-70cm • Each card pre-programmed with a unique ID

3	**Centralized Access Control Software** • System Architecture should be Client / Server architecture • Operating System must support Windows • No. of Clients Accessibility should be minimum 32 Clients • Database Support must be MSDE, MSSQL, MYSQL, ORACLE • Maximum Number of Devices / Doors support = 512 • Time Schedules = 128 • Access Groups / Access Levels = 128 • Maximum Access Groups per user = 4 • Access Zone Support (Entrance Limit, Alarm, Fire Alarm, Muster Zone) • AUTO E-mail Notifications • Roll Call and Visual Map • Online Users Authorizations, Real Time Monitoring • Server Matching • Card Expiry Function • I/O Board • Events Monitoring must be there • Visual Map • Roll Call • Real Time Access Control Event Monitoring based on Users, Device, Door, Event Logs & Alert History • Database Back up
4	**Visitor Management System** The application should support client/server architecture with MSSQL database support • It must have Appointment screen where all the upcoming visitor's details must be shown in system. • While enrolling the visitor/s, the system should ask details i.e. CNIC details, Name of the Host, and validity of the visit and company/organization of the visitor • The visitor management system should generate major reports of total visitors visited the premises, Visitor Checked IN / Check OUT, Name of the hosts that are being visited and the most frequent visitors in the University
5	**Installation, Interfacing, Commissioning, fencing, electrification, networking, Training and other allied work**

Full Technical Proposals of the vendors who meet the technical specifications are:

S. No.	Subject of Scoring Points	Allocated Marks	Score
PART (A) - COMPULSORY			
1	Registration		
a	Income Tax, Sales Tax, SRB, NTN	20	
b	If the technical proposal meets the required specifications such proof/recognition along with List of clients specially Universities, higher educational institutions (HEI's) and research organizations along with satisfactory performance certificate of the similar product (contact number of the client should be clearly mentioned	20	
PART (B) - VALUE ADDED			
2	Authorization distribution Certificate from Manufacturer	10	
3	The vendor service centers in Karachi and have more than 03 years' experience of supplying same products. A dedicated Hardware / software team to handle all customizations.	20	
4	The Vendor shall submit attested copies of annual Income Tax Return and annual turnover of last 3-Years.	05	
5	Bank Statement of last 6 months to ascertain financial capability	10	
6	Not black listed to any Government or Private sector organization; The proposed system by the company should be priory installed in at least two renowned locations where SMIU team can make a visit if required.	15	
	Total	**100**	