

# ANNEX “B”

## Technical Specifications

<p><b>I. Background</b></p> <p>SLSU Main Campus (hereinafter, the Procuring Entity) intends to purchase School Access System using Turnstile and Gate Barrier that can greatly improve the overall protection of the university’s buildings, assets and provide the right security enhancements and visitor protocols to protect students and employees from potential threatening situations or individuals.</p>			
<p><b>II. Technical Specifications</b></p> <p>The goods must be brand-new and of a reputable brand. Refurbished equipment are not acceptable.</p> <p>The Swing Gate Barrier type turnstiles and the Vehicle Access System will be installed at the main gate and the Tripod type turnstiles will be installed at San Roque Gate.</p> <p>The supplier shall provide SLSU Main Campus the Goods with the following minimum specifications:</p>			<p><b>Statement of Compliance</b></p> <p><i>(Indicate also the brand name, model and detailed specification with supporting brochure and related literature)</i></p>
Item	Quantity	Minimum Specifications	
1		<b>A. TURNSTILE (4 LANES Swing Gate Barrier 1 Tripod type)</b>	
	<b>2</b>	<b>Swing Gate Barrier (left or right)</b>	
	<b>3</b>	<p><b>Swing Gate Barrier (middle)</b></p> <p>Anti-tail-gating feature built-in to prevent unauthorized entry.</p> <p>Fast opening and closing time.</p> <p>Built-in mechanical lock to prevent forced opening of swing flaps.</p> <p>Fail safe design ensures that the swing flaps retract back into the housing to allow unblocked access in the event of power failure.</p> <p>Active infrared beams are located in the housing passage to detect personnel or object crossing the flap barriers to prevent the flaps from causing injury or damage.</p> <p>Long service life with low operational cost.</p> <p>Environment: Indoor</p> <p>MTBF : 1.5 Million Cycles</p> <p>Passage Width : 550mm</p> <p>Operational Speed : 30 Person/min</p> <p>Dimensions (mm) : 1219(L) x 180(W) x 1000(H)</p>	

			
	<p><b>1</b></p>	<p><b>Tripod Type</b>                  Bi-directional                  Waist-height                  Anti-tailgate                  Maintenance free usage for five million cycles                  Standard 304# stainless steel with thickness of 1.5mm which has resistance against corrosion                  shock absorber : Hydraulic equipt with fail-safe mechanism                  compatible with a variety of Card readers</p> 	
	<p><b>1</b></p>	<p><b>I. Software</b>                  Client/Server Software                  Able to track student's in and out                  Able to display student's profile during entry                  can be integrated to the school system</p>	

		to be used also in the vehicle control access system	
	<b>3</b>	<p><b>II. Controller/Reader</b> <b>Active Network Control Panel</b></p> <p>The active network control panel shall be able to connect to the software via TCP/IP network obeying standard network protocol.</p> <p>The active network control panel shall be able to support at least 30,000 cards and 80,000 transaction events. The controller shall support 255 access levels, 255 time zone, 255 time set and 365 holidays where each time set shall have a minimum of 3 time intervals. 1</p> <p>The active network control panel shall have a minimum of 32K Bytes of on-board memory and 256K Bytes flash memory which is to retain the database, setting and transaction events in the controller. The data in the on-board memory will still preserved even if the on-board battery fail</p> <p>The active network control panel shall be able to provide 4 Relay Output and 8 configurable Input</p> <p>The active network control panel shall be able to support various types of reader technologies as follow: 1. HID-iClass 2. Mifare 3. Hid Prox 4. EM prox</p>	
	<b>1</b>	<p><b>Hybrid I/O with 8 inputs &amp; 8 outputs with PSU</b></p> <p>The Input/output control panel shall be able to connect to the software via RS 485 (2 wire) or TCP/IP</p> <p>The Input/output control panel shall be equipped with an on-board battery to preserve continuous running of the real time clock (RTC) during power failure. The on-board battery shall be able to preserve the memory and RTC operation for at least 30 days without power supply.</p>	
	<b>10</b>	<p><b>Contactless Smart Card Reader</b></p> <p>The multi-technology contactless smart card reader(s) shall be designed to securely read, interpret, and authenticate access control data from 13.56 MHz contactless smart card credentials and 125 kHz proximity cards.</p> <p>The multi-technology contactless smart card reader shall be optimally designed for use in access control applications by providing:</p> <p>Customized security protection through support of the device-independent Secure Identity Object™ (SIO) portable credential methodology to provide enhanced security and performance features. b. Backwards compatibility with legacy 13.56 MHz contactless smart card and 125 kHz proximity access control formats (E.g. 26-bit, 32, 35-bit, 37-bit, 56-bit, and HID Corporate 1000 formats). Compatibility across the product line shall be assured without the need of special programming.</p> <p>The multi-technology contactless smart card reader shall provide enhanced security technology and features.</p>	

		<ul style="list-style-type: none"> <li>a. The multi-technology contactless smart card reader shall be Secure Identity Object™ (SIO) enabled. The multi-technology contactless smart card reader platform shall support the standards-based, device-independent Security Identity Object™ (SIO) portable credential methodology to ensure data authenticity and privacy. The SIO shall be able to reside on any number of identity devices, including iCLASS SE, MIFARE Classic SE, and MIFARE DESFire EV1 SE credentials.</li> <li>b. The multi-technology contactless smart card reader shall be a certified end-point (TIP Node) within a Trusted Identity Platform™ (TIP) infrastructure. TIP shall provide a scalable, on demand, secure identity delivery system that validates, registers and provides lifecycle management support for certified trusted end-point multi-technology contactless smart card readers</li> <li>c. The multi-technology contactless smart card reader shall increase security by narrowing the possibility of unwanted configuration changes and denials of service. The multi-technology contactless smart card reader shall utilize TIP-enabled secure configuration of multi technology contactless smart card readers with counters and uniquely diversified configuration cards.</li> <li>d. The multi-technology contactless smart card reader shall utilize Secure Element Technology™ to protect keys and cryptographic functions to the international standard Evaluation Assurance Level (EAL) 5+.</li> <li>e. The multi-technology contactless smart card reader shall be configurable to utilize Velocity Checking to provide breach resistance against electronic attacks that invoke multiple improper authentication attempts.</li> </ul>	
	<b>1</b>	<b>Contactless Smart Card Reader/Encoder dual frequency</b>	
	<b>8</b>	<b>Push to Exit Button, metal, US Switch Plate (Turnstile by-pass)</b>	
<b>II</b>		<b>B. VEHICLE CONTROL ACCESS SYSTEM</b> <b>I. Controller</b>	
	<b>2</b>	<b>II. UHF Reader</b> The reader enables automatic identification of tags form distances up to 5 meters (16ft). The reader must be able to be configured through software tool to read specific tags based on user preference. The reader shall have directional reading range with an angle of 45 degrees and should require line of sight between the reader and the tag. The reader shall be featured with an adjustable mounting arm to aim the reader in desired detection area.	

		The reader shall have an input for a sensor that detects the presence of a person or vehicle. When the input is not confirmed, this shall not result in reader output. The reader shall remain in the off position until activated by a vehicle/person crossing the sensor. Once activated, the reader shall generate an RF signal that is reflected from a compatible RF identification tag. The reader unit shall then decode the tag data carried by the reflected signal. This data shall be transmitted to the host system.	
	<b>1</b>	<b>Power Supply with battery charger</b>	
	<b>2</b>	<b>III. UHF Mounting Bracket</b> Adjustable Mounting Set (with weather protection hood)	
	<b>2</b>	<b>IV. Boom Barrier</b> Automated Access Barrier (Heavy Duty) with 4 meters Boom. Large front door for quick and easy access. The bar can be assembled either on the right or left. Easily removable reinforced gear motor support. Photocells integrated inside the barrier body, minimum visual impact and maximum protection. Galvanized steel or stainless steel case (AISI 304) in three sizes from 3 to 7 metres long.  Elliptical section bar for lighter weight and higher wind-gust resistance; special profile for fast assembly of the accessories. Optional pivot joint to protect the barrier in the event of collision. The bar can be assembled either on the right or left.	
	<b>4</b>	<b>Loop Detector</b>	
<b>III. Terms of Technical Support</b>			
	<b>1</b>	The Supplier shall provide a systems engineer who will supervise/oversee the works during installation.	
	<b>2</b>	The Supplier shall provide 24/7 telephone, e-mail, chat, and remote technical support services covering all Goods with a two-day response time from SLSU's posting of support request.	
	<b>3</b>	The Supplier shall provide next-business-day onsite support for technical issues not resolved through the actions described in the preceding paragraph. Hardware defects/errors in any component of the Goods shall automatically require onsite support.	
<b>IV. Warranty</b>			
	<b>1</b>	The Supplier shall post a warranty security for a minimum period of one (1) year after acceptance by SLSU of the delivered items. The obligation for the warranty shall be covered by either retention money in an amount equivalent to at least one percent (1%) of every progress payment, or special bank guarantee equivalent to at least one percent (1%) of the total contract price. The said amounts shall only be released after the lapse of the warranty period and all the conditions imposed	

	under the contract have been fully met.	
2	The Supplier shall replace Goods found to have factory defects immediately inclusive of cost of replacement/repair of parts and labor.	
<b>V. Delivery and Retrieval</b>		
1.	The Supplier shall deliver the goods within <b>sixty (60) calendar days</b> from the receipt of the Notice to Proceed	
2	The Supplier must repair Goods that are under warranty within five (5) working days.	
3	In case replacement or repair will take longer than five (5) working days, the Supplier shall provide a temporary replacement unit of equal capability and features as the item to be replaces/repaired.	
4	<p>The Contract for the Supply, Delivery, Testing and Commissioning of School Access System Using Turnstile and Gate Barrier may be pre-terminated by SLSU-Main Campus for any violation of the terms of the contract. In case of pre-termination, the Supplier shall be informed by SLSU-Main Campus thirty (30) days prior to such termination.</p> <p>In case of pre-termination, the Supplier shall be liable for liquidated damages equivalent to one-tenth (1/10<sup>th</sup>) of one percent (1%) of the undelivered portion of the contract as provided by the Government Accounting and Auditing Manual (GAAM) and forfeiture of the Performance Security.</p> <p>The SLSU-Main Campus have the right to blacklist the Supplier in case of pre-termination and to forfeit the Performance Security</p>	
<b>Terms of Payment</b>		
1	All payments shall be inclusive of Value-Added Tax (VAT) and other lawful charges.	
<b>Miscellaneous</b>		
1	The Supplier shall agree with the definitions and terms found in the General Conditions of Contract (GCC) and Special Conditions of Contract (SCC) contained in the Philippine Bidding Documents for Procurement of Goods issued by the Government Procurement Policy Board (GPPB).	

**Note:**

Bidder must state compliance to each of the provisions in the Terms of Reference/Technical Specifications, as well as to the Schedule of Requirements. The STATEMENT OF COMPLIANCE must be signed by the authorized representative of the Bidder, with proof of authority to sign and submit the bid for and in behalf of the Bidder concerned. If the Bidder is a joint venture, the representative must have authority to sign for and in behalf of the partners to the joint venture.

Conformé:

\_\_\_\_\_  
[Signature/s]  
[Name of Bidder's Authorized Representative/s]

\_\_\_\_\_  
[Position]

\_\_\_\_\_  
[Date]