

INDEPENDENT UNIVERSITY, BANGLADESH

Purchase & Procurement Department

Plot # 16, Block # B, Aftabuddin Ahmed Road,
Bashundhara R/A, Dhaka-1229.

The Purchase & Procurement Department, Independent University, Bangladesh (IUB) invites sealed quotations for supply, installation testing & commissioning of equipment and software for implementation of its Library in customized RFID management system under the terms and conditions as mentioned below:

❖ **The Vendor will be responsible for the following issues:**

- Hardware/equipment will be supplied as per the specifications provided by the concerned authority of the University.
- The integration of hardware and software/driver should be done with existing software **koha**.
- The vendor must provide the necessary training to the library team to operate the system.
- They will provide detailed operating manual along with the source code of the software / API / driver.

The following components are primarily being determined to be include in this implementation (detailed specifications of hardware's are also attached herewith) :

SL	Items	Quantity	Unit Price	Total (Tk)
A.	UHF Tag/Sticker for books	30000		
B.	UHF Tag/Sticker Reader	2		
C.	UHF Security Gate	2		
D.	UHF Handheld Scanner	2		
E.	Book Issuing System for Circulation	2		
F.	Automatic Book Depositing System	1		
G.	Flap Barrier Dual Gate	1		
H.	Self-Checkout System	2		
I.	Display Screen/ Monitor as information KIOSK	2		
J.	Software, API and Drivers for operation	01 job (as per requirement)		
K.	Related networking and electrical works	01 job (as per requirement)		
L.	Pasting tags in existing books	5000		
M.	Training on operation	12		

❖ The implementations of the above-mentioned works for the RFID system would be done phase by phase as below:

- **Phase 1:** Item A (50%), B,C,J,K and L
- **Phase 2:** Rest of items

Technical Specifications

SL	Items	Specifications
A.	UHF Tag/Sticker for books	Compliance Standard : EU Operating Frequency : 865 MHz to 867 MHz Protocol : EPCC
B.	UHF Tag/Sticker Reader	Reading Frequency : 865 -928MHZ. Communication Interface: Universal Synchronize & Asynchronies rxtx userdp. Frequency Modulation :fhss RF Power Range : Programmable. Min Freq : 865 MHz. Max Freq : 928 MHz. Protocol : EPCC. Reading distance: read>50cm, write>30cm. Air interface : ISO-18000-6B, ISO-18000-6C(EPC G2), TK900.
C.	UHF Security Gate	Communication Interface : Universal Synchronize & Asynchronies rxtx userdp. Support Standard : ISO18000-6C Standard Reading Distance: ≥90cm (related to the tag performance and size) Rated Power: Min 8W Output Power: 0-33dBm (UHF, adjustable) RF Power: Min 3W Operating Temperature: -10°C~+60°C Storage Temperature: -40°C~90°C Operating Voltage: AC220V±10% Shell Material: Acrylic, aluminum and sheet metal: Size 550x300x1670mm Device Weight About 65KG Read Range (on Metal)/ Fix reader: to be mentioned by the bidder. Read Range (On Metal): to be mentioned by the bidder. Environmental Specification Live Snapshot: Required
D.	UHF Handheld Scanner	Display screen: 5.2 inches, IPS FHD 1920x1080 resolution Touch screen Corning Gorilla Glass, supports multi-touch, supports glove or wet hand operation Expansion slot : 1 SIM card slot, One card slot, SIM or TF, choose one Communication Interface: USB 2.0 Type-C, OTG, octa-core version supports Type C headset Audio: Speakers, Microphones: 2 Keyboard: 4 main keyboards, 1 power key, 2 scan keys, 1 multi-function key Camera: 13 MP color camera, support auto focus, flash GPS navigation: Built-in GPS global positioning system. error range: ±5m Sensor : Gravity sensor, light sensor, distance sensor CPU: Cortex-A53 2.5/2.3 GHz Eight core PAM+ROM: 3GB+32GB OS: Android 8.1/11.0 ; Support SotiMobiControl, SafeUEM, etc. SDK: Terminal Software Development Kit Extended memory: MicroSD (TF) card can be expanded to 128GB WLAN Support: IEEE802.11 a/b/g/n/ac protocol, (2.4G/5G dual frequency); built-in antenna 2G: 900/1800MHz 3G: WCDMA:B1/B8 WWAN (Android 8.0) CDMA2000 EVDO: BC0 TD-SCDMA: B34/B39 4G: B34/B38/B39/B40/B41 FDD-LTE: B1, B3, B5,B8

SL	Items	Specifications
		<p>2G : GSM850/GSM900/DCS1800/PCS1900 3G:WCDMA:B1/B2B/B4/B5/B8 WWAN (Android 11.0) EVDO:BCO TD-SCDMA:A/F 4G : B1/B2/B3/B4/B5/B7/B8/B12/B17/B20/B28A/B28B/B34/B38/B39/B40/B41 Bluetooth Comply with Bluetooth 4.0 BLE GNSS Integrated GPS, GLONASS and Beidou; built-in antenna, support AGPS Support frequency: 915MHz, 865MHz (865-868MHz or 902-928MHz) supporting agreement: For EPC C1 GEN2 /ISO18000-6C protocol</p> <p>Reading distance: > 25m (circular polarization, indoor); > 10m (circular polarization, outdoor open environment); > 21m (linear polarization, indoor: > 7m (linear polarization, outdoor open environment) Group read rate: >200 tags per second (circular polarization) power: 1W (30dBm, support +5dBm ~ +30dBm adjustment) RFID module: VM-61, based on Impinj Indy R2000 Antenna parameters Linear polarization antenna (1.8dBi)/Circular polarization antenna (4dBi)</p>
E.	Book Issuing System for Circulation	<p>Reading Range : 0-100mm Interface support : SIP2standard protocol document communication Communication: Wi-Fi, RJ45 Display screen: 27, inch capacitive touch screen Appearance body: pearl white, Dimensions: 680mm * 460mm * 1704mm Compatibility: Compatible with the existing library management software. Scanner: to be mentioned by the bidder Ports: Ethernet port, serial port and USB Operating temperature: -10°C -- + 50°C Operating voltage: AC220V± 10% Complete machine power: 50W</p>
F.	Automatic Book Depositing System	<p>Year of Manufacturing: After December 2022. Power supply: AC220V communication interface RS232 or 10M/100M Ethernet Printer: Embedded thermal printing, 80mm paper width automatic paper cutting Display: 21.5" capacitive touch screen RF output power: 20 to 31.0dBm software adjustable. Door Shutter: Closed by gravitational force. Roller based tray: Non-motorized roller system based on gravitational force. Non Conveyor belt System: Roller based system. Standard Features: Full Protocol Readers Ambient temperature: -5°C~ +35°C Size: 90mm* 72mm*195mm Live Snapshot: Required</p>
G.	Flap Barrier Dual Gate	<p>Operating Voltage: AC 100-240V AC Max Power Consumption: 160W Per Pass Mechanism: Motorized. Dimensions (W x L x H): 500x1000x1000 mm Core: Double Core Lane: Duel Smart looking Integrated with Koha borrower database</p>
H.	Self-Checkout system	<p>Comply standard protocol : ISO 18000-6C/6B/EPC C1G2 、 GB/T29768-2013(scalable support) ; ISO15693 Operating frequency: 920~925MHz (840-960MHz is available) :</p>

SL	Items	Specifications
		<p>Reading Radi : 0-100mm Interface support : SIP2standard protocol document communication Communication mode: Wi-Fi, RJ45 Display screen: 27, inch capacitive touch screen Appearance body: pearl white, panel: deep gray Dimensions: 680mm * 460mm * 1704mm (total height containing base) Compatible with the existing library management software, to achieve seamless connection. When borrowing books, the anti-theft position of the book label can be automatically reset and placed UHF RFID reader and antenna to identify multiple books at a time It can be connected to the workstation computer through Ethernet port, serial port and USB Operating temperature: -10°C -- + 50°C Operating voltage: AC220V± 10% Complete machine power: 50W Live Snapshot: Required</p>
I.	Display Screen/ Monitor as information KIOSK	<p>Display Type: LED Screen Size: 1m 08cm (43") Resolution: 1,920 x 1,080 Operating System: Tizen Audio Output: RMS 20W Speaker System: 2CH Connectivity USB: 1 HDMI:HDMI A / Return Ch. Support HDMI Quick Switch Bluetooth: version4.2 with Bluetooth Low Energy Wi-Fi: WiFi Direct Dimension (L x W x H): 979.9 x 596.6 x 170.3 mm (with Stand) 979.9 x 571.9 x 77.3 mm (without Stand) Weight: 8.2 kg (with Stand) 8.0 kg (without Stand)</p>

THE TERMS AND CONDITIONS OF THE TENDER ARE AS FOLLOWS:

- **LOCATION OF INSTALLATION : Library of Independent University Bangladesh (IUB)** at Plot#16, Block # B, Aftabuddin Ahmed Road, Bashundhara R/A, Dhaka-1229.
- **WORK COMPLETION TIME:**
 - a. 1st phase will be completed within 60 days from the date of issue of the work order.
 - b. 2nd phase will be completed within 120 days from the date of completion of 1st phase.
 - c. Training must be completed after 1st phase of work.

1. DATE AND TIME OF CLOSING AND OPENING TENDER:

- The tender will be received up to **12:30 pm on May 31, 2023**
- The tender will be opened at **2:00 pm on May 31, 2023**

2. PLACE OF SUBMISSION OF TENDER: Tender will be submitted to the Purchase & Procurement Department (Room No.2031) Independent University, Bangladesh at Plot # 16, Block # B, Aftabuddin Ahmed Road, Bashundhara, Dhaka-1229.

3. SEALING AND MARKING OF TENDER: The tender shall be submitted in **two separate sealed envelopes (one for TECHNICAL part & one for FINANCIAL Part)**, which shall be **sealed and marked** for the item on top and addressed to the Purchase & Procurement Department of IUB.

4. Earnest Money: The bidder shall furnish as a part of the bid, an earnest money of 2.5% (two and half percent) of the cost of bid drawn in favor of the **Independent University, Bangladesh (IUB)** in the form of crossed pay order / bank draft from a schedule bank of the country. Any bid not accompanied by the earnest money would be rejected by the employer. Earnest money received from bidder would be adjusted first against the retention money before deduction from the payment of vendor/supplier.

5. TERMS OF DELIVERY: Delivery of goods at buyer's site is the responsibility of the vendor.

6. VALIDITY OF OFFER: The offer shall be kept firm and valid until six (06) months for consideration by the university.

7. CLARIFICATION OF TENDER: To assist in examination, evaluation, and comparison of offers, the university may at its discretion ask the bidder for any clarification of the tender. The request for such clarification and the response thereto shall be made in writing and no charge in the price or substance of the tender shall be sought, offered or permitted.

8. BUYER'S RIGHT TO ACCEPT OR TO REJECT TENDER: The buyer reserves the right to accept or to reject any or all the tenders and to annul the bidding process prior to award of order / contract without assigning any reason whatsoever and also is not bound to accept the lowest tender.

9. BUYER'S RIGHT TO INCREASE OR DECREASE QUANTITY: The buyer reserves the right to increase or decrease the quantity of goods without any change in price and other terms and conditions at the time of placing order/ contract and it shall be binding on the successful bidder to accept order/ contract for the increased or decreased quantity at the quantity quoted price(s). For any new item which is not stated in their offer the price or the rates of the same may be negotiated or the market price will prevail.

10. LATE DELIVERY AND LIQUIDITY DAMAGE: In case the supplier/contractor fails to deliver the goods within the stipulated delivery period, the buyer shall be entitled at their option either to pay @ 0.10% of the quoted value per day from last date of delivery and total amount is not to exceed 10% of the contract price. ***If finally, the supplier failed to supply the product, the earnest money submitted with the offer will be forfeited.***

11. PAYMENT: There is no provision for advance payment in this contract. The payment will be made within 30 days from the date of receipt of the bill after deduction of VAT & TAX as per Govt. rules. The bill will include delivery challan, certification of installation & testing Goods Receiving Note (prescribed), Quality Certificate (prescribed) copies of work order in triplicate.

12. ASSESSMENT OF TENDER: The assessment of offer shall be made on the basis of tender terms, price, technical specification, country of origin, delivery schedule and any advantageous to the buyer.

13. AWARD OF ORDER / CONTRACT:

- The buyer will award the order / contract to that successful bidder whose offer has been considered to be substantially responsive. The buyer will not be bound to award the contract to the lowest offered.
- A substantially responsive bid is one, which conforms to all the terms, conditions & specifications of the bidding document and offers a competitive price for their product. If a bid is not substantially responsive, it will be rejected by the employer.
- Preference will be given for the long-time warranty period.

14. TAXES & VAT: The quoted price shall be inclusive of all Taxes, & VAT dues payable to the Government agency as per the Bangladesh Government's rules.

15. INSTALLATION & CERTIFICATION: The supplier will be liable for the installation of the items

delivered to the buyer. The installation of the item will be supervised & certified by the concerned authorities of the buyer. If any item is found defective and not as per the desired specification or standard, the vendor will promptly replace the same at his own cost. Additionally, the supplier should ensure the following works during supply and installation of the equipment.

- Qualified and experienced person should carry out the works to ensure trouble free operation of the system in maximum efficiency.
- The vendor will submit the specifications / sample of the machines / parts / materials in detail for confirmation by the employer before starting the work. (If require)

16. MAINTENANCE PERIOD: The maintenance period of the whole works will be one year without any additional cost. The security deposit will be released after maintenance period, but the warranty period offered by the vendor remains applicable. The maintenance period will commence from the date of work completion certificate.

17. SECURITY DEPOSIT: 10% of the billed amount will have to deposit as security money for one year, which will be released after this period is over.

18. TERMINATION & CANCELLATION: This agreement will be terminated upon completion of the final payment made to the vendor. If the contractor does not carry out his duty under this agreement for any unjustifiable reason, the employer is entitled to terminate this agreement by written notice.

19. INSTRUCTION TO BIDDERS:

- The successful bidder shall deliver the goods within the scheduled time in accordance with the applicable terms & conditions.
- The total bid price will be expressed in Taka only; fraction of Taka should be rounded off and is inclusive of VAT, or any other applicable taxes.
- Documents to be submitted with the quotation which are as follows:
 1. Trade License of the Company/ Firm.
 2. VAT Registration and TIN Certificate.
 3. List of major clients the supplier offered services / supplied.
 4. Authorized distributorship certificate of the products from the principal (If any)
 5. If any require by the buyer, the vendor will provide the documents Bill of Landing and P.S.I certificate etc. Other Information, the firm willing to furnish.(if possible)
- **For any other technical information regarding the tender the bidder may contact IUB Library during the office hours between 9-30 am to 3-00 pm Sunday through Thursday (If needed). Contact person: Mr. Md. Mubassir Ahsan, Assistant, Director Cell No.01916303060**
- **The interested bidders must visit the site before submitting quotation.**

20. VENDOR'S RISKS: Any risks involving damage to physical property, of personal injury & death arising during & in consequence of the performance of the contract other than the accepted risks is the responsibility of the vendor.

21. POSSESSION OF THE SITE: The employer will give possessions of the site required by the vendor in order to carry out the work.

22. SPECIAL CONDITIONS: No conditional offer will be accepted.

- Each page of the bid must be signed & authenticated by the authorized person of the vendor.

Signature of the bidder :

Date :

Name :

Designation :