Tender Notice

DAC / NIT-34 / 2024-25, dated 29.01.2025

Sealed quotations are invited from qualified parties/ suppliers/ vendors/ Companies /Agencies as per following specifications for **Implementation of Automated Library System** at Dinabandhu Andrews College, Garia, Kolkata-70084 having sufficient experience and credentials for successful completion of **Implementation of Automated Library System**.

1.	Name of the work	**"Implementation of Automated Library System" at Dinabandhu Andrews College**
2.	Name and address of the office:	Principal Dinabandhu Andrews College, Garia, Kolkata-70084
3.	Submission of bids	Both technical bids and financial bids are to be submitted concurrently in sealed envelope. All papers must be submitted in English language only.
4.	Bid submission start date	29.01.2025
5.	Last date and time of submitting of quotations:	12.02.2025 at 1:30 P.M.
6.	Date and time of opening of quotations:	12.02.2025 at 2:30 P.M.

1. Instructions to the bidders.

a. Bidder must have adequate Service Personnel for providing on-site installation service within the stipulated time.

b. Entrusted bidder must supply and work as per work order. All supplies must be certified. Supplied components must satisfy the specifications and guidelines, as applicable.

c. Delivery & Installation will be governed by the stated guidelines and associated standards & in line with the scope of work defined in this document. The delivery / supply of the materials done by successful Bidder at respective location only. The Post installation warranty supports are the sole responsibility of the Original Equipment Manufacturer (OEM) and /or bidder. The bidders / vendors are requested to visit the College campus before submitting the price of the tender for their convenience.

d. Services within installation, warranty period must be rendered with OEM for hardware and software.

e. All hardware component service items along with software should have minimum warranty period of 1 year from the date of installation and commissioning of the system by the user. Within warranty period, entrusted OEM and or bidder will replace, reintegrate faulty, buggy components.

f. All materials are to be delivered at the Library at Dinabandhu Andrews College. After necessary checking, testing, marking of the all materials under supervision of Librarian bidder will take necessary step to install the items in the central library.

2. ELIGIBILITY CRITERIA FOR THE BIDDER/OEM

a. The Vendor should have an office in Kolkata for fast problem solving. Documentary proof have to attach.

b. The Vendor must be registered under Companies Act 1956/2013 of Indian Government. Documentary proof have to attach.

c. The Vendor should provide valid PAN, GST Registration Certificate, Trade License and Bank Details. Documentary proof have to attach.

d. The Vendor should have ISO, CE, CMMI certificates for Standard quality check of the materials.

e. The Vendor should have implemented RFID for automation of libraries in at-least 20 libraries of Higher Education colleges/universities in West Bengal. Documentary proof have to attach.

f. The Vendor should have experience of providing RFID integration with Koha through SIP2 protocol, So that the Database cannot be hampered anytime.

g. The Vendor should have experience of providing RFID integration with Koha, So that they can Install and upgrade the Software and Integrate it with RFID time to time. Documentary proof have to attach.

h. The vendor should be sole supplier of all the products (Software/Hardware). No third party/joint venture/subsidiary/ will be entertained.

i. The vendor have to create Library attendance management. No code will be shared nor direct database access from Koha will be made. It will be the sole responsibility of vendor to connect them.

j. The vendor must not be rejected by any College/University for poor service or disability for complete job.

3. TERMS AND CONDITIONS

a) The undersigned reserves the right to terminate the agreement at any time without assigning any reason whatsoever.
b) Payment to the agency shall be made as per availability of government funds/allotment.
c) Statutory deductions as applicable shall be made from the bill of the agency.
d) All bills must be addressed to “The Principal, Dinabandhu Andrews College”.
e) GST will be deducted as per existing Government rules.
f) As per Govt. rules, income tax shall be deducted at source for payments against bills submitted.
g) All quotations shall remain valid up to 31st March, 2026.

Scope of Work

Sl. N	DESCRIPTION	SPECIFICATIONS	Qty.
1.	**RFID Tags for Books with Anti Theft Stickers/Institutional labels**	Tag should only read by the RFID readers and tag must be re writable. • EPC Gen 2(v1.2.0) compliant 840-960MHZ • Dimension: 3.992" [101.4mm] x 0.625" (15.875mm) • Integrated Circuit Alien Higgs-3 • Operating Frequency 840–960 MHz • EPC Size 96 - 480 Bits • Anti theft For shielding RFID tags • Printed College logo on the labels	20,000
2.	**Integrated RFID Staff Station for Tagging/Circulation**	This is used for book tagging by the staff of Library. This is also used for book lending by the staff at the circulation desk. This works as a smart RFID desk also. • UHF middle-distance integrated reader • Processor :ARM CORTEX M3 100M • Memory: RAM 16Kbits + FRAM 32Kbits. • Frequency ： 860MHz-868MHz(CE) • Protocol ： ISO18000-6B, EPC G2 • Interface : RS232, RS485, TCP/IP • GPIO : 1 Relay output, 2 TTL outputs, 2 TTL inputs • Reading Range ： 5 - 8 m • Power Consumed ： DC+9V/12V • SIP2 connectivity with Reader and Koha for circulation and tagging • Tag book/Patron only done after authentication from ILMS software through API system. • Circulation Books through RFID software using SIP only. • At the time of circulation Patron Fine with Patron Image shows through API only. • Book Check in time if patron has fine then Book's title shows red color. • RFID Software works with Library Card or without Library card. • Patron Details shows Patron image, fine, circulation history through API. • Circulation history of RFID software can also be seen through ILMS software. • RFID Software doesn't contain any kind of database credentials. • RFID Software also work if ILMS software update in future.	01
3.	**RFID Security Gate Antenna System (1Pair)**	Gate antenna system which reads the tag in all three orientations. It is a combination of Gate Antennas and Long range reader. It should be keep log of all items	01

		passing through the gates. It also sounds buzzer on passing of unauthorized items or as per configuration set. • Frequency : 860MHz-868MHz(CE) • Protocol : ISO18000-6B EPC G2 • Reading Range : 3M • Power Consumed : DC+9V/12V • Interface: TCP/IP • Sound Alarm & LED glowing for theft indication • Powered by Impinj Speedway reader • RFID Gate must work either circulation done by RFID Software or ILMS software through SIP only. • Gate also create log report with date time and Barcode number of the non properly issued books. • Software doesn't contain any kind of database credentials. • Software also work if ILMS software update in future. • Tag book/Patron only done after authentication from ILMS software through API system. • Circulation Books through RFID software using SIP only. • Patron Fine paid through SIP in RFID software. • At the time of circulation Patron Fine with Patron Image shows through API only. • Book Check in time if patron has fine then Book's title shows red color. • RFID Software works with Library Card or without Library card. • Patron Details shows Patron image, fine, circulation history through API. • Circulation history of RFID software can also be seen through ILMS software. • RFID Software doesn't contain any kind of database credentials. • RFID Software also work if ILMS software update in future.	
4.	**RFID Touch Kiosk for self issue and return.**	It should be stand-alone self touch kiosk machine primarily used for issue and return of books in Library. • Frequency : 860MHz-868MHz(CE) • Protocol : ISO18000-6B EPC G2 • Reading Range : 3M • OPAC can be search from kiosk. • Phonetic Virtual keyboard configuerd with RFID KIOSK. • Self Check-in/Check-out kiosk with touch screen • UHF RFID reader & thermal printer • 22”LCD screen, 32bits true color	01

		• Intel Duel-core • CPU 1.6GHz or higher, • 4GB RAM, 320GB SSD, • RS-232, USB, Video Card, • Ethernet interface. • At the time of circulation Patron Fine with Patron Image shows through API only. • RFID Software works with Library Card or without Library card. • Patron Details shows Patron image, fine, circulation history through API. • Tag book/Patron only done after authentication from ILMS software through API system. • Circulation Books through RFID software using SIP only. • Patron Fine paid through SIP in RFID software. • Book Check in time if patron has fine then Book's title shows red color. • Circulation history of RFID software can also be seen through ILMS software. • RFID Software doesn't contain any kind of database credentials. • RFID Software also work if ILMS software update in future	
5.	**RFID Tagging Job Work (for Book)**	• RFID Tag & Sticker to be pasted in books • Tagging the book information from Koha to the RFID Tag.	20000
6.	**RFID Hand Held Reader.**	Hand-held should be wireless reader for Inventory management. The user interface is in android based platform with a wide touch screen, which is easily. This can read book tags for stock verification. • Device must be Android based. • Application has facilities item identification, stock verification, Patron image capture and upload to ILMS software, Tag Book and Tag patron. • Software doesn't contain any kind of database credentials. • Software also work if ILMS software update in future. • OS: - Android 5.1 • WWLAN: - FDD B1B3B7 TDD B38B39B40 WCDMA • B1B2B5B8 EVDO BC0 GSM B2B3B5B8 • Display: - 5.0inch IPS 1280*720 • Camera: - 8MP • Battery: - Rechargeable Li-ion Battery • 2600mAh, 7.4V	01
7.	**RFID Smart card/Member with Printing.**	This acts for the Library Card issued to patrons from the library. This card is compulsory while the book lending.	500

		The cards are re-writable for next year's students. This can be made printed also, by any professional card printer. • Dimensions : 85 × 54 × 0.84mm (3.3 × 2.1 × 0.3in) • Case material : PVC • Operating Temperature : -10°C to +50°C • Operating frequency : 860-960MHz • Supported standard : EPCglobal Class 1 Gen 2; ISO 18000-6C • Read distance : Up to 10m / 32.8ft • Chip type : UCODE G2XM • Memory : 240-bit EPC; 64-bit TID; 512-bit programmable. • user memory • Functionality : Read/Write • Data retention : >10 years	
8.	**RFID Book Drop box.**	It should be a stand-alone book return station primarily used for returning library books. It maintains accurate data when items are placed in it one at a time. It's touch screen facility and inbuilt high speed thermal printer allows patrons to view and print transaction related information. The system must be easy to install with internal setup of receiving cart, reader and antenna. • Frequency :860MHz-868MHz(CE) • Protocol :ISO18000-6B EPC G2 • Reading Range :3M • Book drop box with display monitor • UHF RFID reader & thermal printer • 22"LCD screen, 32bits true colour • Intel Duel-core • CPU 1.6GHz or higher, • 4GB RAM, 320GB SSD, • RS-232, USB, • Video Card, • Ethernet interface • Tag book/Patron only done after authentication from ILMS software through API system. • Circulation Books through RFID software using SIP only. • At the time of circulation Patron Fine with Patron Image shows through API only. • Patron Fine paid through SIP in RFID software. • Book Check in time if patron has fine then Book's title shows red color. • RFID Software works with Library Card or without Library card.	01

		• Patron Details shows Patron image, fine, circulation history through API. • Circulation history of RFID software can also be seen through ILMS software. • RFID Software doesn't contain any kind of database credentials. • RFID Software also work if ILMS software update in future.	
9.	Attendance Management Software	• For counting the students physical attendance in Library • The Software should interface with the Library Management Software KOHA through API • Integrated with Barcode Scanner for patron ID Card • It should be creating Library attendance management with Koha. No code will be shared nor direct database access from Koha will be made. It will be the sole responsibility of vendor to connect them. • It will access the data of Pre Registered patrons in Koha , no need to register patrons data in another software • Fetching the details of Patrons with in-time & out-time • Download reports in excel monthly/yearly/ weekly by one click.	01

Sd/-
Principal
Dinabandhu Andrews College

Financial Bid

Sl. No.	Particulars of Essential Equipment	Units	Unit Price (Rs.)	Total Amount (Rs.)
1.	RFID Tags for Books with Anti Theft Stickers	20,000		
2.	Integrated RFID Staff Station for Tagging/Circulation with Software	01		
3.	RFID Security Gate Antenna System (1 Pair)	01		
4.	RFID Self Touch Issue/Return Kiosk	01		
5.	RFID Hand Held Reader	01		
6.	RFID Book Drop box	01		
7.	Virtual Attendance System	01		
8.	Tagging job work of book tagging	20,000		
9.	RFID Enabled Smart card Printing System	01		
			GST as applicable	

Note: The price above as total is inclusive of all delivery/freight, installation, configuration, and 02 days onsite training and one year onsite support/warranty of all the RFID components.