INSTITUTE FOR SOCIAL AND ECONOMIC CHANGE

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AN ALL INDIA INSTITUTE FOR INTER-DISCIPLINARY RESEARCH & TRAINING IN THE SOCIAL SCIENCES

Mr. S Ashok Rao
Registrar

06 March 2024

NOTICE INVITING TENDERS FOR SUPPLY AND INSTALLATION OF RADIO FREQUENCY IDENTIFICATION (RFID) SYSTEM FOR ISEC LIBRARY

Sealed tenders are invited for supply and installation of RFID System for the ISEC Library as per specifications from reputed IT/OEM (Original Equipment Manufacturer), Authorized Dealer/Vendor as per Proformas enclosed herewith at **Annexure A - D. Last date for Submission of tender is 18-03-2024** up to 5.00PM to The Registrar, Institute for Social and Economic Change, Dr. V K R V Rao Road, Nagarabhavi, Bengaluru-560072

Interested parties, if so desire, may contact the Registrar, ISEC (080-23215468), Deputy Librarian I/c or may personally visit the library for query / clarification, on any working day between 9.30AM to 5.00PM.

A. TENDER

1. The tender should be sent in Three Sealed Envelopes superscribed with (a) "Technical Bid for RFID System" and (b) "Financial Bid for RFID System" by post sufficiently early so as to reach the Registry within date and time or may be personally delivered at The Registrar Office, ISEC. Tenderers are required to clearly mention the subject on the top of the envelope.

2. The tenderers are expected to examine all the instructions, Proformas, terms & conditions and specifications in the tender documents. Failing to furnish all information required by the tender document in any respect will be at the tenderer's risk and may result in the rejection of the tender.

3. The tender must be received not later than the date & time specified for submitting the same. In case the date of submitting the tender will be declared as holiday by the Institute then next working day of the Registry will be treated as due date of Tender.

B. TERMS AND CONDITIONS OF TENDER

4. The tenderers are required to quote their lowest rate per unit for supply of RFID SYSTEM in **Annexure-'D** ' enclosed herewith and the rates should be valid for a period of 90 days from the date of opening of Tenders. The tenderer shall not be entitled during the said period of 90 days to revoke or cancel its tender or to vary the tender or any terms thereof.

5. Hypothetical or conditional Tender shall not be entertained. Tender once submitted shall not be allowed to be withdrawn or altered.
6. Over-writing/over-typing or erasing of the figures which render the tender doubtful or ambiguous are not allowed and shall render the tender invalid.
7. The institute, in its discretion, reserves the right to reject or accept any or all tenders, partly or completely, at any time without assigning any reason thereof.
8. The tenderer /OEM must be a registered Firm in India with the Registrar of Companies and in business for the last 10 years or more.
9. The tenderer /OEM should have an average annual turnover of Rs. 5 Crore in the last three financial years
10. The tenderer /OEM should submit a Certificate of Authorization from the Principal Manufacturing Company and self-declaration in case of OEM Bidding to quote the Tender. A letter of authorization from the Original Equipment Manufacturer specific to this tender should be enclosed.
11. OEM should have supplied RFID in at least 100 Government libraries in India.
12. Tenderer/ OEM should have at least two government library projects with a value of 50L or more in the last three years anywhere in India. PO to be attached.
13. OEM should have supplied and commissioned 6feet-top or above enclosed security gate in at least 10 government libraries. Proof of photos and PO copies to be attached.
14. The tenderer financial standing: The bidder should not be under liquidation, court receivership, or similar proceedings, and should not be bankrupt. Bidder to upload undertaking to this effect with the bid.
15. The tenderers or the OEM of the offered products must have ISO 9001 and CE certification.
16. The RFID Gates should be having ETA (Equipment Type Approval) from Wireless Planning Commission) this is a mandatory requirement for both Indian and International Manufacturers.
17. The tenderer should be registered with Income Tax and GST Tax Departments
18. The tenderer /OEM should have integrated with koha in Atleast 30 libraries within the last 5 years.
19. The tenderer shall give an undertaking **(Annexure 'B')** that the firm/ Partners/ Director/ Proprietor has not been blacklisted and its business dealings with Central/State Government/Public Sector units/ Autonomous bodies have not been banned/ terminated on account of poor performance.
20. Tenderers are required to fill in the Technical Specifications Compliance Sheet as at **Annexure-C.** Financial Bids of only the technically qualified tenderers shall be opened.

ANNEXURE A

NOTICE INVITING TENDERS FOR SUPPLY AND INSTALLATION OF RFID SYSTEM
(Proforma to be filled by the Tenderer)

1. Name of the Tenderer: _____

2. Name of the Contact Person
   (Telephone/Mobile No./E-Mail ID)_____

3. PAN No. (with proof) _____

4. GST Registration No. (with proof) _____

5. Whether all the terms & conditions are acceptable: Yes/No: _____

6. Whether rates are inclusive/exclusive of GST. Please mention. _____

7. Discount, if any_____

8. Whether Undertaking of Non-blacklisting attached: _____

9. Delivery Schedule: _____

ANNEXURE-B

UNDERTAKING

I/We undertake that _____ has not been blacklisted/banned by any Government Department/Public Sector undertaking/Autonomous Body.

Signature of the authorized signatory of the firm/company/ organization/Official Stamp

Date:
Place:

ANNEXURE- C

TECHNICAL BID
SPECIFICATIONS COMPLIANCE SHEET

S. N	Name of the Component	Specifications	Whether the Offering is Technically Compliant (Mention Yes or No)	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Remarks
1	**RFID Tag**	The RFID chip used in the tag should have been designed specifically for Library use. i.e. it should have three sections. Lockable section for item identification Re-writable section for library-specific use Security function (EAS) for item anti-theft (which can be activated and deactivated),			
		The RFID chip should have multi-read function, i.e. several tags can be read at the same time			
		Tag size should be 81mm x 49mm with at least 2kb memory, multi-read and antitheft.			
		Tags Air interface protocol should be ISO 15693, ISO 28650 and ISO 18000-3 compliant with supporting proof.			
		Lifetime replacement Guarantee of Tags and replacement of defective tags if found during first time tagging.			
		Enclose specimen of Tag			

				Yes or No	Yes or No
Coil size	45 x 76 mm	± 0,5 mm	1,772 x 2,992 in		
Die-cut size	49 x 81 mm	± 0,2 mm	1,929 x 3,189 in		
Web width	53 mm	± 0,5 mm	2,087 in		
Pitch, length per piece MD	85 mm	± 1,5 mm	3,346 in		
Die-cut to web edge	2 mm	± 1,5 mm	0,079 in		
Die-cut to register mark	0,5 mm	± 1,0 mm	0,020 in		
Coil to die-cut (MD)	2,5 mm	± 1,5 mm	0,098 in		
Coil to die-cut (CD)	2 mm	± 1,5 mm	0,079 in		
Thickness of the IC	120 µm	± 15 %			
Overall thickness of transponder package (excluding IC and siliconized paper)	208 µm	± 10 %			
Thickness of the siliconized paper	56 µm	± 5 %			

S. N	Name of the Component	Specifications	Whether the Offering is Technically Compliant (Mention Yes or No)	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Remarks
2	**Anti-Theft Stickers**	Good quality smooth surface			
		Label printed with Name and logo of our Institute. Size: Minimum half inch larger on all sides than the RFID tag			

		Strong permanent adhesive, which does not leach into the paper of the book.			
		Thickness - 350um Max			
		Paper - UDV Paper			
		Color Printed			

S. N	Name of the Component	Specifications	Whether the Offering is Technically Compliant (Mention Yes or No)	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Remarks
3	**HF Staff Station with SLIX Card Reader for User Authentication**	Read/Write/Anti-theft programming should be done in one single operation			
		Should Support SLIX ID card Enabled issue at staff station.			
		Read/Write distance of Up to 35 cm and programming time of 1 second			
		ISO 15693, ISO 28650, and ISO 18000-3 compliant with supporting proof.			
		Library will only have to operate koha (no extra key to be pressed for staff station toggling)			
		No middleware to be used.			

Parameter	**Specifications**	Yes or No	Yes or No
Operating Frequency	13.56 MHz ± 7 kHz		
Sub Carrier	424 kHz		
Power Supply	12V		

Power Consumption	1.2W minimum		
Transmitting Power	4W minimum		
Read Range	Up to 35 cm		
Communication Interface	USB/RS232/Ethernet		
Supported Transponders	ISO 15693, ISO 28650,and ISO 18000:3		
Indicators	LED for power, read verification, etc.		
Baud Rate	26.5 kbps		
Operating Temperature	-10°C to +70°C		

S. N	Name of the Component	Specifications	Whether the Offering is Technically Compliant (Mention Yes or No)	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Remarks
4	**Security Antenna (6 feet) – 2-Panel security gate with 3D Detection (EAS Pedestals Library Security Gate)**	The security gate should be at least 6 feet tall.			
		Two pedestals with a 13.56 MHz frequency range			
		Security gate should be fabricated with wood for better stability.			
		Phase Change (patented technology) real 3D detection (Should not be Interdependent with one another)			
		EAS - Electronic Article Surveillance on detection system sounds an alarm, and different types of Tag IDs, dates, and times are stored.			
		Should be ISO 15693 compliant with supporting proof			
		Security gates should detect any unauthorized books going out. And			

		generate an alarm for the same			
		Security gate should provide the details of book carried in /out by the patrons.			
		Security gate should capture the student's attendance while passing through the gate in library with their ID cards.			
		Security gate should read the students card and provide detailed attendance report integrated with koha LMS.			

Parameter	Specifications	Yes or No	Yes or No
Operating Frequency	13.56 MHz		
Power Supply	AC 230V / 50Hz		
Power consumption	30W maximum		
Transmitting Power	6 W RF Power		
Read Range	Up to 1 m with pair of gates		
Communication Interface	RS232/Ethernet		
Supported Transponders	ISO 15693, I Code		
Operating Temperature	-10°C to +70°C		
Alarms	Lights and buzzer		
People Counter	Counts in/out traffic		
Communication Parameters	Baud Rate: 115200 Kbps		

S. N	Name of the Component	Specifications	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Remarks
5	**Self Service Kiosk - 24/7 Issue**	HF RFID Reader and Antenna for Books with multiple Read/Write facility.			
		User identification: SLIX card reader only			
		Kiosk should suit the library décor.			
		High Speed Thermal Slip Printer			
		21” or higher LCD/LED Touch Screen Monitor using Capacitive Technology			
		Branded Small Form Factor CPU			
		Multi-protocol firmware 15693 and ISO 18000:3 compliant			
		Communication interface — Ethernet			
		The Self-Checkout station client software should interface with the koha LMS Software giving following features: Check Out/Renewal Transaction Status Transaction Print			
		Provision for display of reservations done by a user along with sequence and date of collection,			
		Provision of enquiry of checkouts against a user and its due date.			
		Provision for enquiry of fine against a user			

		Operating Frequency:13.56 MHz			
		Power Supply:180-230V Ac; 50 Hz			
		Power Consumption:1.2W minimum			
		Transmitting Power:1W approximately			
		Read Range:20-25cms,3 to 4 books of average size			
		Antenna Size:300 X 300 mm			
		Communication Interface: Ethernet Supported Transponders: ISO 15693, ISO 14443A and ISO 18000:3 Operating Temperature:-10°C to +70°C Weight:25 Kg approximately			

S. N	Name of the Component	Specifications	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Remarks
6	**RFID Handheld Reader**	It should be Integrated with high performance mid-Range RFID Reader, reading range up to 30cm			
		Must Have anti-collision algorithm and 1.5W radio frequency power, it should identify 30 pieces per second.			
		Should have removable lithium polymer battery, which makes it reliable & safe for outdoor use.			
		Reading Capability :Achieves a high-rate reading with			

		optional interfaces (IEEE 802.11b/g, Bluetooth)			
		Multi-detection:30 tags per second.			
		High Impact Plastic materials: Durable housing			
		Wireless Communication: WCDMA(for Option):band 850/2100,cat.8 HSDP Cat.6 HSUPA WIFI(as default):Meet IEEE 802.11b/g Bluetooth(as default):Meet Bluetooth 4.0 Indicator Light: Internet Indicator light, charging indicator light			
		Battery: Operating Time:>6h Charging Time:<4h Compatible Protocol: ISO 15693 Operating Frequency:13.56MHz RF Power:0.25-1.5W Reading Range:28cm (Standard RFID tag) Anti-Collision Algorithm :Support Operating Temperature: -10°C to +70°C Storage Temperature: -20°C to 85°C Relative humility :10%~90% RH, no condense Gross Weight:<320g			
		Audio: Support Buzzer			

S. N	Name of the Component	Specifications	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Remarks
7	**Interface software**	Interface software to link all RFID hardware to existing Library software (koha)			
		Interface software to link ID card registration to koha			
		Report should be directly available from the koha			
		Tagging, retagging and un-tagging of books			
		Circulation of books			
		Circulation should be activated through SLIX ID card-based patron authentication			

S. N	Name of the Component	Specifications	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Remarks
8	**RFID Cards with Printing**	Operating Frequency: 13.56 MHZ			
		Standard: ISO15693 – SLIX Chip			
		IC Type: Philips I-code SLI			

		Memory Capacity : 1024bits, organized in 32 blocks of 4 byte each			
		Data Rewrite: 100,000 times			
		Data Retention: >10 years			
		Case Material: PVC(Polyvinyl Chloride). White			
		Surface Finish: Glossy			
		Dimensions: 85.6 (L)*0.76(thickness)mmCR80			
		Printability: Thermal Transfer (dye sublimation preferred). Silk Screen Tamp on(Pad on)			
		Compatibility: Should be compatible with existing RFID system installed in the library.			
		Print Mode - Dual Sided			
		Print Type - Direct Dye-Sublimation			
		Printing Resolution - 300 dpi			
		Colour – Front Side YMCKO Full Colour & Back Side Black & White			
		Print Area - Edge to Edge			

S. N	Name of the Component	Specifications	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Whether Technical Brochures Attached in Support of Claim (Mention Yes or No)	Remarks
9	**Auto Attendance Software**	Security gate should capture the patron's attendance while passing through the gate in library with their SLIX ID cards and push the data to this software			
		Security gate should read the patrons card and provide detailed attendance report through this software			
		Software should track the user coming in live.			
		Integrated with koha LMS for detailed in/exit attendance & report			

Date:

Signature
(Name of firm with stamp)

ANNEXURE – D

FINANCIAL BID

(Proforma to be filled by the Tenderer)

SI No.	Name of Component	Required Number	Quoted Price (Per Unit) Excluding GST	GST % Applicable	Quoted Net Price (Per Unit)
1	RFID Tag	90,000			
2	Antitheft Stickers	90,000			
3	HF Staff Station with SLIX Card Reader for User Authentication	1			
4	Security Antenna (6 feet) – 2- Panel security gate with 3D Detection	1			
5	Self Service Kiosk	1			
6	RFID handled Reader	1			
7	Interface software	1			
8	RFID Cards with Printing	250			
9	Auto Attendance Software	1			

Date:

Signature
(Name of firm with stamp)