# Govt. College of Teacher Education, Dharamshala, Kangra (H.P.) 176215

# **Tender for RFID System**

No 226

Date 21 /3/ 2095

# NOTICE INVITING TENDER FOR PURCHASE, INSTALLATION AND FIXATION OF RFID SYSTEM IN LIBRARY

## Scope of Work

#### **Modernization of Library**

#### Introduction:

Govt. College of Teacher Education, Dharamshala, Kangra Himachal Pradcsh has decided to introduce Radio Frequency Identification (RFID) System in Central Library in its efforts towards further automation of the library system.

## Computer Records Management:

Computer records are created using Integrated Library Management Software SOUL to suite the Information needs of the above-mentioned Library users, using international bibliographical standards (MARC21); information on availability of item in the library is accessed through OPAC (Online Public Access Catalogue).

#### Equipment & Tools for Self-Service:

Use of RFID technology for tagging the items, Staff Station Reader, Gate, Handheld Reader Tags ,Cards, Rfid Card Reader .

## Implementation of RFID based Circulation Services

- Supply and Implement RFID Hardware using NCIP V2.0 protocol
- Installation of Middleware Application for ILMS installed
- Tagging RFID labels on Books and other items on stock
- Pasting of Paper stickers (SIR Labels) on RFID Tags
- Training of Library staff on using RFID system effectively
- Training on International Standards and Best RFID based Library Practices

recommended by NISO

 Engaging suitable personal to ensure smooth functioning of automated library

services.

## Smooth Operation of Library Automated System:

• Provide professional personal to supervise the entire project on regular basis to co-ordinate with the Library Staff.

#### Note:

- All the RFID components chosen for complete solution should be conform to NISO guidelines for use of RFID in Libraries and ISO 15693 / ISO 18000 - 3, ISO14443A or Mifare in accordance with equipment's (All systems must be compatible with Global RFID ISO standards).
- Modularity, Expandability and Upgrade ability in the overall system configuration should be open.
- Entire system should be installed and commissioned after proper testing and training should be provided to entire staff of the library.
- ➤ The Maintenance Support Equipment required installing and Maintain the RFID System Shall be available in India always and provided by the vendor. Bidder shall demonstrate that the resources (infrastructure) exist which are required to provide robust pre- and post-sales support to RFID Project.
- Bidder should fully be accountable for the performance of all components of the supplied RFID equipment's.
- Supplied hardware should have proven compatibility with ILMS.(Integrated Library Management System)
- > The Bidder will have to train library staff for key functions like, circulation, technical services, system administrator and public services for using of all equipment.
- > All training should be performed by vendor at institute premises and trained personnel should be placed in the institute for running, maintaining the hardware, software for the period of warranty.
- > The Library requires interaction with the vendor sales staff and technical support staff during installation planning, the installation phase and follow-up immediately after such installation.
- Introductory operator / user / staff training shall be provided at no extra charge.
- > Middleware Warranty: Patches and service pack releases must be supplied at no additional charge to the library within the warranty period.
- > Service technicians should be fully trained, factory authorized and certified by the manufacturer to perform services.
- > Technical support via email should be provided to the library free of cost.

- > Service technicians should be equipped with parts normally required to service the equipment and reduce downtime.
- > Failure of vendor to meet specified standards may result in termination of service contract.
- Warranty and Service requirements apply to both Standard and Optional system components.

**Hands on Training (on site) and Manual/Guide:** Training for handling of RFID, RFID Tagging and fixing on documents, troubleshooting training. Complete write-up/manual/guide for operation and handling of RFID equipment's. Training to be given to all library staff working on various library operations.

Name of RFID Equipment	Minimum Quantity Required
RFID Tags	14,000
Library Staff Station	1
Institution Labels	14000
Middleware	1
Handheld Reader	1
Security Gate	1
Smart Card Printer (Brands e.g. EPSON, Brother, Kyocera, HF	any other branded product) 1
Smart Card for Students and Staff	550
RFID Card Reader	1
Card printer ribbon	5

# **Technical Specifications**

pecification		Com	pliance
		Yes	No
wo pedestals with a 13.56 N			
hase Change (patented techniterdependent with one anot	nology) real 3D detection (Should not be her)		
AS - Electronic Article Sur	veillance on detection system sounds an alarm, s, dates, and times are stored.		
hould be ISO 15693 compli			
ecurity gate should detect and alarm for the same.	ny unauthorized books going out. And generate		
Parameter	Technical Specs		
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		

Item Specification	Compliance		
	Yes	No	
High Quality anti-theft sticker			
Label to be printed with Name and logo of the Institute Design to be printed should be approved by the library			
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.			

pecification		Complia	ance
100045075-00-		Yes	No
peration	gramming should be done in one single		
econd	to 35 cm and programming time of 1		
should be ISO 15693, ISO upporting proof	28650, and ISO 18000-3 compliant with		
or staff station toggling)	perate koha (no extra key to be pressed		
No middleware to be used			
Parameter	Technical Specs		
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		

	Comp	liance
	Yes	No
The RFID chip used in the tag should have been designed specifically for Library use, i.e. it should have three sections		
ockable section for item identification		
Re-writable section for library-specific use		
Security function (EAS) for item anti-theft (which can be activated and leactivated),  The RFID chip should have multi-read function, i.e. several tags can be		
read at the same time		
Fag size should be 81mm x 49mm with at least 2kb memory, multi-read and antitheft		
Γags Air interface protocol should be ISO 15693, ISO 28650 and ISO 18000-3 compliant with supporting proof		
Life time replacement Guarantee of Tags and replacement of defective ags if found during first time tagging		
Enclose specimen of Tag		

1	Mechanical dim	ensions		
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 %		

Specification		ance
	Yes	No
The portable handheld reader (Wand) and the required accessories must be a cordless, one-piece design, to be held in one hand.		
It should be able to read the books kept in the nook and corner of the book rack.		
It should be able to read the books kept on top shelve of the rack		
Multi-detection:30 tags per second		
High Impact Plastic materials: Durable housing		
Specifications:		
Audio: Support Voice Announcement		
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 Dimension:160*76*32+or -2mm		

Specification		Compli	iance
		Yes	No
Smart Card Reader - I	JSB		
It should support both technology	13.56 MHz contactless and contact smart card		
Should be used with ex	xisting ID cards		
Specifications			
Parameter	Technical Specs		
Monitor	18.5" Monitor		
Power consumption	150 to 200W		
Connectors	2 USB; 12V 1A internal power output		
External	One button on/off Network card [Ethernet]		
Enclosure	Acrylic and / or metal		1

7. Interface Software – 1 No's		
Specification	Compliance	
	Yes	No
Software will handle tagging of books. Book to be place and it should be linked with accession number after typing in the same in software		
It can be able to handle all the circulation process like issue, return and renewal of the books.		
It can be able to read the patron RFID cards		
All RFID systems provided will be integrated to existing LMS through SIP2		
Biometric registration software will be linked to Soul		
Registration will happen by operating the registration software in staff terminal		

Specification	Compliance		
	Yes	No	
Operating Frequency: 13.56 MHZ			
Standard: ISO/IEC 14443			
Contactless transmission of data and supply energy			
Operating distance: up to 100mm (depending on antenna geometry			
Data transfer: 106 kbit/s			
Data integrity: 16 Bit CRC, parity, bit coding, bit counting			
Anti collision			
Typical ticketing transaction :<100 MS (including backup management)			
1kbyte, organized in 16 sectors with 4 blocks of 16 bytes each (one block consists of 16 byte)			
User definable access conditions for each memory block			
Data retention of 10 years			
Write endurance 100.000 cycles			
Individual set of two keys per sector (per application) to support multi-application with key hierarchy			
Mutual three pass authentication (ISO/IEC DIS 9798-2)			
Unique serail number for each device			

Specification	Compliance	
	Yes	No
Slide Printing: double		
Resin Thermal Transfer		
300dpi		
26 Seconds per card/138 cards per hour (YMC with transfer)		
Accepts CR80 card Size		
Smart Card Encoding (Contact/Contactless)-Upgradable		
Ethernet Interface		
Printing Software, Webcam, Pen tablet		

LO. Printer Accessories – 5 No's		
	Compli	iance
	Yes	No
Printer Ribbon		
Cleaning Kit		

# Schedule of Tender

Date	Action
21st April	Last date to receive quotations
2025 at	
5:00 P.M.	
22 <sup>nd</sup> April	Opening of tender document inviting quotations
2025 by	
11:00 A.M.	
22 <sup>nd</sup> April	Opening of Technical Bids & Presentation of Bidders
2025 at	
11:00 A.M.	
22nd Amril	Opening of Financial Bids
22 <sup>nd</sup> April	
2025	

# **Bid Information Sheet**

Document Description	Tender document for Purchase and installation of RFID (Radio Frequency Identification System) in Library
Bid Submission	Sealed tender in given format through registered post (Offline)
Last Date and Time of submission of bid	21st April 2025 by 05:00 P.M.
Bid Opening	22 <sup>nd</sup> April 2025 at 11:00 A.M.

Bid Validity	Three Months from the last date of submission of tender.
Address for the Submission of the Response to this Tender Notice	Principal, Govt. College of Teacher Education Dharamshala, Distt. Kangra, H.P. 176215
	are requested to remain update for any

Important Note: prospective Bidders are requested to remain update for any notice/amendments/clarifications etc., to the Tender Document through the website <a href="www.gctedharamshala.ac.in">www.gctedharamshala.ac.in</a> No separate notifications will be issued for such notices/amendments/clarifications etc. in the print media or individually.

#### INSTRUCTIONS TO BIDDERS

#### Procedure for Submission of Bid

a) Bids are invited under a two-bid system: (i) Techno-Commercial Bid and (ii) Price Bid. The "Techno-Commercial Bid" and "Price Bid" must be placed in separate envelopes, each clearly marked as "Techno-Commercial Bid" and "Price Bid" respectively. Both envelopes should then be placed in a larger envelope, sealed, and clearly labeled as "BID FOR RFID SYSTEM." This should be addressed to:

The Principal, Govt. College of Teacher Education, Dharamshala, District Kangra, Himachal Pradesh - 176215.

The bids must reach the office on or before 5:00 P.M. on 21st April, 2025. The bids will be opened on 22nd April, 2025 at 11:00 A.M.

- b) No tenders will be accepted after the due date and time specified above.
- c) The Principal, GCTE Dharamshala, reserves the right to accept or reject any tender without providing any reasons. It should be noted that incomplete or conditional tenders will be liable for rejection.

#### **Bid Price**

- a) The prices must be quoted in Indian Rupees only.
- b) The quoted price should be on a fixed-price basis, inclusive of all applicable costs, charges, taxes, and duties. All other charges, duties, and expenses, of any kind, must be borne by the bidder. No price variations will be considered under any circumstances.

# Opening of Bids and Evaluation Parameter:

Evaluation of the proposal will be done in three stage, i.e. Pre-Qualification, Technical & Financial:

- a. The Technical Evaluation consists of detailed scrutiny of the proposal.
- b. The Bidders who qualify in the Technical Evaluation will be considered for opening of Financial Bids.

#### **Technical Evaluation**

The Technical Evaluation Committee shall evaluate and scrutinize the proposal in detail along with the Bid Application Form as mentioned in Annexure-A.

#### Award of Contract:

- a) The Office will issue a Letter of Award to the successful bidder whose bid has been determined to be substantially responsive and accepted by this office.
- b) The Letter of award is required to be acknowledge by the awardee on the duplicate copy duly stamped and signed by the authorized signatory.

## Right to accept any bid, reject any or all bids

This office reserves the right to accept any bid, and to annul the tender process and reject all bids at any time prior to award of contract. In case of any disputes pertaining to the Tender, the decision of this office shall be final and binding.

#### **Sub-Contract:**

Neither the contract nor any right granted under the contract may be sold, leased/sublet, assigned, or otherwise transferred, in whole or in part, by the bidders, and any such attempt to sell, lease, assign or otherwise transfer shall be void and of no effect. The bidder shall not permit anyone other than its personnel to perform any of the work, service or other performance required by the vendor under the contract.

Canvassing: No bidder is permitted to canvas on any matter relating to this tender. Any bidder found doing so may be disqualified and his bid may be rejected.

Govt. College of Teacher

Dharamshala (Kangra), H.P.

## **Terms and Conditions**

- 1. Incomplete Tender/quotations or those received after the specified due date and time will not be considered.
- 2. Each page of the tender document should be signed by the bidder or by the authorized signatory with seal of the agency and will be required to be enclosed with the bid.
- 3. The decision of the Purchase Committee will be final and binding.
- 4. The supply order will be awarded to the lowest bidder meeting the specified item requirements.
- 5. Guarantee/Warranty, if applicable, should be quoted separately.
- 6. Defective products will not be accepted.
- 7. Payment will be made after full installation and inspection by the Purchase Committee.
- 8. Rates should be quoted F.O.R. destination.
- 9. The supply order will be awarded to the lowest bidder following a complete demonstration with SOUL 3.0 for the purchase committee members.
- 10. Any rebates or discounts should be mentioned separately.
- 11. The firm receiving the order is required to provide comprehensive training to the library staff.
- 12. The company/agency must provide details of their repair and customer support policy separately.
- 13. The bidders is required to enclose photocopies of the following documents along with techno-commercial bids:
  - a. Copy of agency registration.
  - b. Copy of PAN card.
  - c. Copy of GST registration.
  - d. Annexure A containing declaration
- 14. Warranty 2 year.
- 15. Payment will be made only after the successful installation of the RFID system by the lowest bidder. The committee will conduct a product test for at least 10 days. Payment will be processed once the committee members are fully satisfied with the product's performance.
- 16. The company awarded the supply order must complete the work within 45 days. Failure to do so within the specified timeframe will result in the cancellation of the order.
- 17. The Bidder/OEM should submit Certificate of Authorization from the Principal Manufacturing Company and self-declaration in case of OEM Bidding to quote the Tender. A dealer's sub-resellers are not allowed to bid for the project. A letter of authorization from Original Equipment Manufacturer specific to this tender should be enclosed. The letter should mention OEMs contact numbers, email addresses and website with whom authenticity of letter can be cross checked. To verify the authenticity of the items quoted in the tender the RFID equipment should be available on OEM's website.

- 18.The Bidder/OEM must have minimum 10 live sites (Preferred Central Universities/State Universities/ academic institutions/Government Library etc.) where proposed RFID System integration with SOUL Management Software is in operation since at least last 1 year. The vendor must also have a certificate from INFLIBNET for Integration with SOUL.
- 19. The Bidder/OEM must have RFID installation with SOUL library software at least in 02 library in Himachal Pradesh. Library must be using RFID system integrated with SOUL since at least last 1 year successfully.
- 20. The Bidder/OEM should have an average annual turnover of Rs.5 Crore (Minimum) in the last three financial years.
- 21. 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.

22. The Bidder/OEM must be a registered Firm in India with Registrar of Companies and in business for the last 10 years or more.

Govt. College of Teach Phaducation Ia.

Dharamshala (Kangra), H.P.

#### Annexure-A

# Bid Application Form for Purchase, installation and fixation of Radio Frequency Identification System

Name of the Bidder:

Address:

Contact No.

Website URL:

Email ID:

- d) I/We assure that neither I/We, nor any of my/our workers, will do any act which is improper/illegal and will indulge in any such acts during the execution in case the tender is awarded to us.
- e) I/We assure that I/We will NOT be outsourcing any work specified in the tender document, to any other firm.
- f) Our Firm/Company/ Agency is not blacklisted or banned by any Govt. Department, Autonomous Institute or any other Govt. Organization.
- g) I/W certify that, I have understood all the terms & conditions, as indicated in the tender document, and hereby give our unconditional acceptance to the same.
- h) I/We, further certify that I/We, possess all the statutory non-statutory registrations. Permissions, approvals, etc., from the Competent Authority for providing the requisite services.

Place: Date:

Authorised Signatory (For and On behalf of the agency/company with official seal)

# Govt. College of Teacher Education, Dharamshala, Kangra (H.P.) 176215

No	Date		
	Price Format for RFID Equipment		

Sr. No.	Name of RFID Equipment	Price	QTY	GST		Total
				%	Amt.	
1.	RFID Tags					
2.	Library Staff Station/Terminal					
3.	Institution Labels/Anti Theft Sticker		,			
4.	Middleware/Interface Software					
5.	RFID Handheld Reader					
6.	RFID Security Gate					
7.	Smart Card Printer (Brands e.g. EPSON, Brother, Kyocera, HP/any other branded product)					
8.	RFID Smart Card					
9.	RFID Card Reader					
10.	Card printer Ribbon					

Authorized Signatory (For and on behalf of the agency/company with official seal)