



TENDER DOCUMENT

NAME OF WORK : RFID IN LIBRARY OF D.A.V. COLLEGE, Chd.

CLIENT : PRINCIPAL, D.A.V. COLLEGE, Sector-10, Chd.

TENDER ISSUED TO : _____

PLACE FOR SUBMISSION/
PLACE OF OPENING TENDER : Office of the PRINCIPAL, D.A.V. College,
Sector-10, Chandigarh.

LAST DATE OF SALE OF TENDER : JUNE 27, 2018, TILL 1.30 P.M.
(From the College)

DATE/TIME OF SUBMISSION : JUNE 29, 2018, BEFORE 1.00 P.M.

DATE/TIME OF OPENING : JUNE 30, 2018, AT 11.00 A.M.

EARNEST MONEY : Rs.1,00,000/- (ONE LAKH)

Cost of DNIT : Rs.1000/- (ONE THOUSAND)

PRINCIPAL,
D.A.V. COLLEGE, SECTOR-10,
CHANDIGARH

DAV COLLEGE

Sector 10, Chandigarh-160011

Detailed Notice for Inviting Tender for RFID Based Library System

DAV College, Sector-10 Chandigarh was founded in 1958, when the City of Chandigarh was in its infancy. College has grown with the city becoming an integral part of Socio-Cultural milieu. During more than 50 years of existence College has produced great administrators, jurists, academicians, artists, sportspersons of international repute. College offers wide range of Undergraduate, Post-Graduate and Diploma courses. The college has also been allotted 4 research centres in the departments of Zoology, Chemistry, Bio-Technology and Physics. College offers maximum infrastructural and student support facilities to its students.

College Library, the heart and hallmark of the institution is doing yeoman's job for its intellectual growth and development. It is multi-sectional, reader friendly, holding around 80,000 print books, provides access to e-resources through NLIST and EBSCO Databases, thus catering to the needs of students and esteemed faculty. The Library proposes to implement RFID based library system during the current session 2018-19.

SCOPE OF WORK:

1. Supply, testing and installation of Radio Frequency Identification System integrated with any Library Management System (LMS)
2. The Manufacturer/Dealer/Supplier is expected to bid for all the items as per Annexure I ("Price Bid")
3. RFID Based Library System in college library is related to RFID Workstation;

RFID Security Gates; Handheld Scanner, Supply of RFID Tags, RFID enabled Identity Cards, its integration with LMS and other associated items. All RFID Components chosen for complete solution must confirm to ISO 15693/ISO18000-3 and certificate from OEM is required.

4. The Manufacturer/Dealer/Supplier will be required to supply, test, install and implement RFID based library system with LMS at a designated location in the Library, DAV College, Sector-10, Chandigarh.
5. The Bidder will be fully responsible for standard integration using SIP2/NCIP protocol with LMS and the performance of all components of the RFID equipment and materials being supplied and installed, and any malfunction/defective materials should be replaced free of cost during the warranty period.
6. It would be responsibility of the Bidder to demonstrate functioning of entire RFID system and other equipment on LMS being used. The entire system should be compatible with the LMS.
7. The Bidder shall agree to provide local customization and personalization of the proposed RFID based library system during its implementation and warranty period to ensure flawless functioning of the RFID based library system in the College Library. (DAVC-10)
8. The items of the RFID based library system should be as per the specifications and of the approved quality. The items or the service which do not conform to the approved specifications will have to be replaced by the Manufacturer/Dealer/Supplier.
9. The system shall have a minimum warranty/guarantee period of one year from the date of acceptance. Any defects or deficiency in the service shall be the responsibility of the Bidder/Service Provider.
10. The time limit for successful implementation of the RFID based library system in the College Library (DAVC-10) shall be **two months** from the date of award of contract.

TERMS AND CONDITIONS FOR MANUFACTURER/DEALER/SUPPLIER

1. The tender shall be submitted in **TWO envelopes**, one marked **“Technical Bid”** and the other **“Price Bid”**. Both envelopes should be super scribed **“Tender for RFID based library system”**.
2. The tender shall be **accepted only on the “Tender Documents”** issued by the DAV College, Sector-10, Chandigarh or downloaded from the ‘Download Section of College Website (<https://davchd.ac.in>).
3. **In case of downloaded Tender Document, the bidder has to deposit the cost of DNIT (Rs 1000/- in cash/draft in favour of “Principal, DAV College, Sector-10, Chandigarh” and payable at Chandigarh) along with the tender document.** The Bidder shall fill in the “Bidder Information Sheet” in the Tender Document.
4. Tenders must be submitted in “Original” and without making any additions, alterations and as per details given in the DNIT.
5. Any amendments to this tender document, if issued by the *DAV College, Sector-10, Chandigarh*, must be submitted along with this tender.
6. Tenders not submitted as per the procedure described herewith shall be rejected.
7. The Bidder must not have been blacklisted by any organization. A certificate in this regard is required to be submitted along with the tender document.
8. Tenders received after the due date and time shall not be considered.
9. The Bidder is expected to quote rates after careful analysis of the costs involved for the performance of the complete work as per the needs of the College Library. Nothing extra shall be payable on any pretext at any stage later on.
10. **The Bidder without following information/documents in the envelope marked “Technical Bid” will be rejected:**
 - (a) Proof that the Dealer/Manufacturer/Supplier has been an implementer of RFID based library system integrated with LMS for at least last five years and has successfully completed the previous contracts, a proof of this should be provided.
 - (b) Authorization letter from the Manufacturer stating that the Bidder is an authorized dealer of the Manufacturer.

- (c) Self-Certification stating that the items which have been identified for end of sale or the items which are still under trial have not been quoted.
 - (d) Should have local technical and service support based in Chandigarh.**
 - (e) Must have minimum FIVE Libraries at the National level/State level where RFID integration with the proposed LMS is in operation with RFID for at least five years.
 - (f) Proof of PAN Number and GST etc.
 - (g) Income Tax Return for the last **three financial years** alongwith a certified copy as proof thereof.
 - (h) **EMD: A Demand Draft for Rs.100,000/-(Rupees One Lakh only)** in favour of *“Principal, DAV College, Sector-10, Chandigarh”* payable at *Chandigarh* towards Earnest Money.
 - (i) The EMD will be refundable to the unsuccessful Bidder. No interest shall be paid on EMD.
11. Bank guarantee/FDR @10% (ten percent) of the total cost of supply order to be provided by the successful bidder covering the warranty period. The bank guarantee/FDR should be in favour of *“Principal, DAV College, Sector-10, Chandigarh”*.
 12. The bank guarantee/FDR will be returned after the successful completion of the warranty period.
 13. In case the successful Bidder fails to furnish the bank guarantee / FDR within ten days of acceptance of the purchase order, the EMD will be retained and refunded after the warranty period. The Institute would return the EMD to the successful Bidder on the submission of the Bank Guarantee/FDR.
 14. The envelope marked **“Price Bid”** shall contain only the rates (inclusive of all taxes, surcharge, etc.) for the supply and installation of RFID based library system in the prescribed form at Annexure-I duly filled and signed by the Dealer/Manufacturer/Supplier or their authorized representative.
 15. Envelope containing **“Price Bid”** will be opened only of those Bidders who are selected after scrutiny of the envelope containing Technical Bid.

16. Tenders without earnest money will be summarily rejected.
17. The Bidder with lowest total bid value shall be declared as successful bidder. However, it may not be binding on the College to accept the lowest bid. The College serves the right to accept/reject any bid without assigning any reason whatsoever.
18. The successful Bidder shall commit to supply the ready-made goods within THIRTY DAYS of the supply order. A penalty @ 1% shall be charged for a delay of every week or a part thereof.
19. Mode of Payment shall be:
 - a) 75% payment against the satisfactorily installation, data integration/ data entry (LMS) and commissioning of RFID hardware and software
 - b) 25% payment against checking and verification of at least 1000 Nos. RFID enabled documents integrated with LMS in the Library.
20. **Last Date for Submission of Tenders: June 29, 2018 till 1.30 pm**
21. **Opening of Tenders: June 30, 2018, at 11.00 am**

TECHNICAL BID

Item No. 1: Library Staff Station / Staff Station Reader (Quantity : 1)			
Item Minimum Specifications		Matched/ Not Matched	Remarks (If any)
Specifications			
Parameter	Technical Specs		
Operating Frequency	13.56 MHz		
Power Supply	5V to 12V		
Power Consumption	1.2W minimum		
Transmitting Power	1W minimum		
Read Range	Up to 25 cm		
Antenna	Internal		
Communication Interface	USB/RS232/Ethernet		
Supported Transponders	ISO 15693, ISO 14443A and ISO 18000:3		
Indicators	LED / Buzzer for power, read verification etc.		
Operating Temperature	-10°C to +70°C		
Housing Material	ABS or Similar		

Item No. 2: RFID Handheld Portable Reader (Quantity : 1)

Item Minimum Specifications		Matched/ Not Matched	Deviation, If any
Specifications			
Parameter	Technical Specs		
Operating Frequency	13.56 MHz		
Power Supply	9V		
Standby Mode (battery life)	4 Hours		
Charging Time	4.5 Hours		
Transmitting Power	1W approximately		
Read Range	Up to 25 cm		
Communication Interface	USB		
Supported Transponders	ISO 15693-3, I Code		
Indicators	LED Indicator / LCD Display for Power, Read & Error and a configurable buzzer		
Operating Temperature	-10°C to +70°C		
Storage Memory	4GB		
Housing Material	ABS Plastic		

**Item No. 3: 'Two EAS' Pedestals Library Security Gate / Gate Antenna System
(Quantity : 1)**

Item Minimum Specifications		Matched/ Not Matched	Deviation, If any
Specifications			
Parameter	Technical Specs		
Operating Frequency	13.56 MHz		
Power Supply	AC 230V / 50Hz		
Power consumption	30W maximum		
Transmitting Power	0.5W to 6W variable		
Read Range	Up to 1 m with pair of gates		
Communication Interface	RS232 / Ethernet		
Supported Transponders	ISO 15693-3, I Code		
Operating Temperature	-10°C to +70°C		
Communication Parameters	Baud Rate: 115200 Kbps		
Weight	25 Kg approximately		
Housing Material	ABS or similar		

Item No. 4: Self Check Out Kiosk Station (Quantity : 1)

Item Minimum Specifications		Matched/ Not Matched	Deviation, If any
Specifications			
Parameter	Technical Specs		
Operating Frequency	13.56 MHz		
Power Supply	180-230V Ac; 50 Hz		
Power Consumption	1.2W minimum		
Transmitting Power	1W approximately		
Read Range	20-25 cms 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		
Packaging Material	Wood		
Display	17" or higher TFT capacitive touch screen		

Item No. 5: RFID Book Return Station (Quantity : 1)

Item Minimum Specifications	Matched/ Not Matched	Deviation, If any
24 hrs operation should be possible		
Minimum 100 books bin to be provided		
Real time check in should be processed		
High Speed Thermal Slip Printer		
17" or higher LCD/LED Touch Screen Monitor using Capacitive Technology		
Small Form Factor CPU		

Item No. 6: Self Adhesive RFID Tags (for Book) (Quantity : 50000)

Item Minimum Specifications	Matched/ Not Matched	Deviation, If any
The RFID chip used in the tag should have been designed specifically for Library use. i.e. it should have three sections <ul style="list-style-type: none">◦ 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 80mm x 50mm with at least 2048 bits memory, multi-read and antitheft		
Distance for detection from pedestal should be minimum of 92 cms		
Tags should be fully ISO 15693/18000-3 compliant		

Other features: "Tag Talks First" (TTF) feature, tamper proof, detection rate of the system should be above 95% consistently regardless of the number of items that are in the field		
Warranty of Tags Minimum 40 years for logic circuits and replacement of defective tags if found during first time tagging		
Operating frequency 13.56 MHz		

Item No. 7: Institution Labels / Anti Theft Stickers (Quantity : 50000)		
Item Minimum Specifications	Matched/ Not Matched	Deviation, If any
Good quality self adhesive labels of following specification:		
Good quality smooth face		
Label printed with Name and logo (design to be approved by Department)		
Size: Minimum half inch larger on all sides than the RFID tag		
Strong permanent adhesive, which does not leach in to the paper of the book		

Item No. 8: Integration Module / Standard Middle Ware Application (Quantity : 1)		
Item Minimum Specifications	Matched/ Not Matched	Deviation, If any
Client Software should support following features and is to be Integrated with existing Integrated Library Management Software (ILMS)		
Tagging / Re-tagging after proper online validation of the title / member records LMS database		
Tag monitoring by accessing item record from ILMS database		

Patron Smart Card personalization monitoring by accessing patron ID from ILMS database		
Send SMS & Email for circulations and registration transaction which can be selected for specific users.		
NCIP V2.0 compliance		
Retagging option for re-registration of books & patrons		
Sorting by accessing Title record from ILMS		
Check out /Check-in/Renewal		
Provision tot display of reservations done by a member along with sequence and date of collection		
Provision of enquiry of checkouts against a member and its due date		
Provision for details of fine against a member		
Provision of slip printing containing the details of a transaction		
Reserved titles shall get highlighted while check-in		
Designing of Library web page for providing various services through internet, including WebOPEC and giving link to information website.		

Item No. 9: Smart Cards (Quantity : 10000)

Item Minimum Specifications	Matched/ Not Matched	Deviation, If any
The smart cards should be 1kb Mifare Plus cards with pre printing on both sides (pre printing to be approved by Department)		
The smart card must be for multipurpose use by the library users.		
1k byte EEPROM		
Unique serial number		
16 securely separated sectors supporting multi- application		

Each sector consists 4 blocks with a length of 16 Byte		
2 x 48 bit keys per sector for key hierarchy		
Access conditions free configurable based on 2 level key hierarchy		
Number of single write operations: 100,000		

Bidder Information Sheet

Sr No	Description	Details
1	Name of the Bidder	
2	Address of the Bidder	
3	Contact No. (Phone/Mobile/Fax)	
4	E-mail	
5	GIR/PAN/Income Tax	
6	GST No.	
7	Year of Establishment	
8	EMD (Draft)	Bank: Branch: DD No. : Date: Amount:
9	Name of the Authorized Signatory	

Signature with Seal

ANNEXURE – I

Format for “ Price Bid”				
Sr. No	Item	Quantity	Unit Cost	Total Cost (inclusive of all taxes)
1	RFID Readers/ Work Station	01		
2	RFID Security Gates (2EAS pedestals)	01		
3	Self Check out Kiosk	01		
4	RFID Tag Size: 50mmx50mm/80mmx50mm	50000		
5	Anti Theft Stickers	50000		
6.	RFID Mifare 1 Kb Smart Card	10000		
7.	Standard Middle Ware Application/ Integration Module	01		
8.	RFID Hand-held Reader for Shelf Management	01		
9.	Book Drop Box	01		

Signature & Seal of the bidder (with date)