



राष्ट्रीय डिज़ाइन संस्थान हरियाणा National Institute of Design Haryana

TENDER DOCUMENT

TENDER FOR THE PURCHASE OF **Library RFID Management System**

Tender No. NIDH/RC/TENDER/09/2020-21

List of Annexures

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National Institute of Design Haryana (Kurukshetra)
(An Autonomous institute under DPIIT, Ministry of Commerce & Industry, Govt. of India)
Tender No. NIDH/RC/TENDER/09/2020-21
Dated: 02.03.2020
TENDER FOR SUPPLY & IMPLEMENTATION OF LIBRARY RFID MANAGEMENT SYSTEM
LAST DATE FOR SUBMISSION: 17.03.2020 (within 05:00 PM)
**To be submitted to: Deputy Registrar, National Institute of Design Haryana,
Kurukshetra**

1.	Name of the Firm/Agency:			
2.	Address of the Firm/Agency:	<table border="1"> <tr> <td data-bbox="684 1541 1401 1686">Tel:</td> </tr> <tr> <td data-bbox="684 1686 1401 1848">Email:</td> </tr> </table>	Tel:	Email:
Tel:				
Email:				

		Tender			
SN	Item/Specifications (as per attached Document)	Make & Model	TO BE FILLED BY THE FIRM/AGENCY (INDICATE BRAND / MODEL QUOTED FOR, UNLESS SPECIFIED)		
			Qty.	UNIT RATE In (Rs)	TOTAL RATE WITH ALL TAXES & CHARGES (In Rs.)
1	Book Labels – RFID		2000		
2	Multi-Layered Optically Watermarked Sticking Labels with Institute Logo		2000		
3	Book Labels – EM		2000		
4	Job Work – Tagging of RFID, EM and Labels & Programming of Tags		2000		
5	Staff Station for Personalization & Circulation of books and cards		1		
6	Smart Cards, printer and consumables, pre-printed with Original NXP Mifare 4K Chip		1		
7	Electromagnetic Detection Gate System		1		
8	Hybrid Self Check In Check Out System		1		
9	Book Drop System		1		
10	All interrelated Software's & integration systems		1		
11	Koha Software with Online Software Catalogue		1		
12	Trainings, Deployment and any other related hardware/software/service		1		
	Ex-factory price offers (excluding agency commission, to be invariably separately shown and if nothing is claimed reasons thereof must be indicated failing which the bid will not be considered)				
	Training Cost, if any.				
	Any other chares				
	Taxes				
			Grand Total		

TERMS & CONDITIONS:

1. Tenders must be submitted by bearer or sent by post so as to reach the office latest by 05:00 PM **on 17.03.2020** in a sealed envelope addressed to the Deputy Registrar, NATIONAL INSTITUTE OF DESIGN HARYANA, Transit campus at Govt. Polytechnic Building, Village Umri, Kurukshetra 136131 duly accompanied by following.
 - a) Forwarding letter on the Official letterhead of the firm/agency/company. **(Attached as Annexure II)**
 - b) Supporting technical documentation [Product brochures, leaflets, manuals etc. of the brand items for which rates are quoted.
2. All the pages of bid including annexures being submitted must be signed by the authorized signatory of the firm with company seal and sequentially numbered by the bidder irrespective of nature of content of the documents before submitting.
2. The bidder should be registered as a company in India as per Company Act 1956. Copy of the Certificate of Incorporation issued by Registrar of Companies and full address of the registered office to be submit.
3. Bidder should be either an Original Equipment Manufacturer (OEM) or should be authorized distributor/ authorized dealer/ authorized sales & service agent of the Original manufacturer. Authorization Certificate/Letter of OEM should be submitted. **(Attached as Annexure IV)**
3. Bidder Annual Turnover should be minimum Rs. 01 Crores (INR) from last 3 consecutive years. Audited/Authenticated copy of balance sheet and Profit/Loss account for last 03 years to be attached.
4. And, should have a presence in the market from the past 4-5 years with experience in offering RFID Solution. Copy of Supply/Work Order for similar items in different years in reputed organization in India out of which 1 should be with Govt. Department or reputed public institution as proof for Experience of 4-5 Years should be attached. **(Format attached as Annexure VI)**
5. Tender should indicate the 'total rate for each item' which should be inclusive of all applicable Local Taxes, Octroi, Excise Duty, levies, transportation costs, insurance costs

as well as all charges including installation charges on F.O.R, NID Haryana(Kurukshetra) Basis.

4. Earnest Money Deposit:

- a. Each tenderer shall have to deposit a sum of Rs 50,000/- (Rupees Fifty thousand only) in the form of Demand Draft/Pay Order/Banker's cheque from any Nationalized Bank, drawn in favour of 'National Institute of Design Kurukshetra', payable at Kurukshetra, as Earnest Money Deposit.
- b. The amount of Earnest Money will be refunded to the unsuccessful tenderer(s) without interest, through A/C payee cheque / Bank Transfer, after finalization of the tender and against surrender of the original Money Receipt (MR) towards EMD.
- c. Bids without Earnest Money Deposit and in a form other than prescribed above will be summarily rejected.
- d. Third party draft will not be accepted.

5. Performance Security:

The successful bidder will be required to furnish Performance Security of 5% of the value of the RFID solution in the form of Demand Draft/Pay Order in favour of Director, National Institute of Design Kurukshetra within 10 days of receipt of the supply order. The Performance Security would be retained by the institute till satisfactory completion of supply, installation and warranty obligations. The Performance Security shall remain valid till 60 days of the completion of supply and installation including warranty obligations.

6. **Minimum 03 Years warranty and technical support of all Hardwar/Software items.**

Bidder should provide Manufacturer's/Suppliers warranty Certificate.

7. Delivery and setup must be completed in full **within 4-6 Weeks** of the placement of the formal order.
8. The products will be used for educational purposes. Any applicable academic institution discounts should be offered and stated clearly.
9. Installation of all supplied hardware shall be done by the bidder.

10. Director, NID Haryana reserves the right to accept or reject any offer and modify the total requirement at any stage without assigning any reason.
11. Any dispute arising out of the order of the purchase shall be subject to the exclusive jurisdiction of Court in Kurukshetra city only.
12. **Sealed envelope containing quotations should be superscribed with the words: "TENDER FOR THE SUPPLY & IMPLEMENTATION OF LIBRARY RFID MANAGEMENT SYSTEM."**
13. Tendered rate should remain valid for at least 03 months from the last date fixed for submission of the tender. Institute reserves the right to reject part and incomplete Tender.

Evaluation Criteria: The quotation will be evaluated on the basis of total cost of the items of the quotation form (inclusive of all taxes and charges).

TERMS OF PAYMENT:

1. Full payment on completion of supply, setup, & testing subject to furnishing certificate to this effect by Deputy Registrar, National Institute of Design Haryana **within (01) one month** from the date of submission of bill complete in all respect.
2. If the supplier fails to deliver any or all of the goods or complete the setup within the period specified in the purchase order, NID Haryana shall without prejudice to its other remedies, deduct as liquidated damage **0.5 percentage** of the price of the delayed goods for every week or part thereof while making the payment.

Certified that we are quoting the above rates after having gone through the specifications mentioned in **Annexure – I** of each item individually in addition to 'Terms & Conditions' & 'Terms of Payment' mentioned above, which are agreed by us.

Dated:

Signature of the authorized signatory with seal

Technical specification of Radio Frequency Identification (RFID) System Integrated with open source Library Management Software (Koha) and Electromagnetic (EM) Security System

TECHNICAL SPECIFICATION

1.Book Label RFID Tag			
No	Item	Description	
1	Dimensions	RFID Tag size 50 x 80 mm or comparable	
2	Thickness	350um Max	
3	Memory	Not less than 2048 bits	
4	Data Processing Rate	26Kbps Minimum	
5	Frequency	13.56 MHz	
6	Standard	ISO 15693 and 18000-3; ICODE SLIX2	
7	Type	Read/Write Lockable with unlimited Number of read/write cycles and must be re-writable	
8	Distance for Tag detection	36" Minimum	
9	Operation Mode	Passive	
10	Functionality	Both Security & Inventory Control	
11	Adhesive	The proposed system tags is adhesive-backed and one piece (tag and label integrated into one piece) to adhere to file materials without addition of an adhesive cover label. The proposed system tag uses a low acid, or neutral pH, adhesive.	
12	Operating Temperature Range	-25°C to +70°C approximately	
13	Other Features	<ul style="list-style-type: none"> a. A single tag for Identification, automation and Anti-theft must be read even if not visible and must be read inside the file; temper proof and has guarantee for the life of the item on which it is originally affixed. b. The proposed system tags enable the AFI security status to be stored directly on the tag and trigger an immediate alarm if an item not charged is read by the detection system. c. The proposed system tag is guaranteed for the life of the item on which it is originally affixed. Lifetime guarantee 	

		<p>assures about the quality of the product offered and future replacement of the RFID tags which are found un-operational, without any extra cost.</p> <p>d. The tag supplied should have a branding of the OEM on the chip side</p> <p>e. The RFID tag and Book Label (EM Tag) should be from the same OEM</p>	
14	Antenna Type	Aluminum	
15	Samples	Tag samples to be provided with the technical bid	

2 Multi-Layered Optically Watermarked Sticking Labels with Institute Logo			
No	Item	Description	
1	Dimensions	70 x 70 mm or comparable	
2	Thickness	350um Max	
3	Paper	UDV Paper	
4	Printing	Color Printed 4 + 0	
5	Finishing	Die Cutting in roll form and not in sheets	
6	Logo	Color Printed Logo	
7	Adhesive	Strong, Non Removing Adhesive	
8	Other feature	Optical Watermark with Library Branding	
9	Samples	Tag samples to be provided with the technical bid	

3. Book Labels – EM			
No	Description		
1	The Size of the Security Strip should be minimum 160 mm X 3 mm for hardbound books, softbound books and periodicals;		
2	Strips must be guaranteed to perform for life time of the object in which they are placed.		
3	Strips once applied on material should be hidden in nature.		
4	The security strips shall be one-piece, flexible, thin, non-rusting metallic alloy coated with an adhesive film. The film shall not discolor or lose its adhesive or cohesive strength with age. The strips shall require no moisture, heat or additional glue, or adhesive for affixing to library materials.		
5	The strips shall be virtually unaffected by any shielding devices such as gum, cigarette wrappers, aluminum foils, human body, or by items held back-to-back or cover-to-cover, or concealed in briefcases or backpacks.		

6	Manufacturer shall warrant that the strips will be free of defects in materials & manufacture for the lifetime of the strip	
7	The RFID tag and Book Label (EM Tag) should be from the same OEM	
7	Vendor shall supply samples with the technical bid	

4. Job Work – Tagging of RFID, EM and Labels & Programming of Tags		
No	Description	
1	All books need to be tagged	
2	Affix EM Tag	
3	Affix RFID Tag	
4	Affix Sticking Label	
5	Programming of the Tags	

5. Smart Cards, printer and consumables, pre-printed with Original NXP Mifare 4K Chip		
No	Description	
1	Smart Cards with Original NXP Mifare 4K Chips, 1000 nos to be supplied	
2	Pre-printed with the Institute Approved Design (Static text)	
3	Programmed with Institute provided details (software application to be supplied)	
4	Memory of Cards: Minimum 4K	
5	Size of Cards: ISO ID Card Standard	
6	ISO Standard: ISO 14443A/B	
7	Only original NXP Mifare 4K Chips to be provided. Genuineness of the NXP cards will be validated using the TagInfo app provided by NXP, downloaded from NXP website. Samples to be provided with the technical bid.	
8	Only first sector to be used for the library setup. The remaining space will be used by the institution for future multiple applications. Vendor has to supply the software application for the printing and programming of the cards	
9	Printer with dual side color printing technique and system control display	
10	Consumables to print 1000 cards including 1000 cards, sufficient ribbons and cleaning kits	
11	Printer should be connected through USB only	
12	Printer should have inbuilt capability to print and program the cards in a single process. Printer encoding should support Mifare 4K chips. No external device to be connected.	

6. Electromagnetic Detection Gate System		
No	Description	
1	Detect genuine Tattle-Tape™ products in any orientation	
2	External devices, such as CCTV and/or barriers can be connected	
3	The system incorporates visual and audible alarms	
4	The alarm system has flexible light in 7 different colours: Red, cyan, magenta, blue, green, yellow, white	
5	The visual alarm can be configured to flash corridor specific or give a full system alert	
6	The audible alert has a variable alarm pattern and adjustable volume	
7	The system detects direction specific and can be configured for incoming, outgoing and Bi-directional	
8	The gates shall incorporate a people counter based on double sensor technology	
9	The system should have an integrated LED display for alert information and counts	
10	The integrated LED display should show incoming, outgoing and Bi-directional people counting information	
11	The system should incorporate an energy saving function that can remain in a low energy state until the people counter detects movement	
12	The gates shall provide full detection from 0 to 100cm	
13	It shall obtain optimal detection performance at a pedestal distance of 100cm	
14	The system should be provided with 'False positive filtering', reducing false alarms caused by foreign objects	
15	The system shall be built on a master – slave principle with up to 6 pedestals (5 gates) in one single system	
16	The system shall provide multiple gate installation up to 5 gates	
17	One electronics chassis should support a minimum of three antennas (2 gates).	
18	The people counter display should be located on the electronic chassis so figures can be easily seen	
19	The antenna's mounting points must be easy to install	
20	The antenna's shall have the following dimensions H 1786 x W 597cm for optimal detection	
21	The system shall provide an optional Baseplate for easy install available for single or dual gate installations	

22	The antennas shall have side panel designed for applying customizable vinyl graphics for promotion activities. The institute will provide the content which is to be printed on these panels. Printing & application in the vendors scope.	
21	The weight per gate should not be more than 36.3 KG	
23	The system should be connected through TCP/IP and the people count should be available directly through TCP/IP	

7. Hybrid Self Check In Check Out System		
No	Description	
1	The kiosk shall be free standing	
2	The housing shall be made of metal / wood	
3	The housing covers computer hardware, wiring and power supply and can be locked. No wires or peripherals should be accessible from outside	
4	The system shall have minimum 2 external USB connectors for service & maintenance	
5	The system shall have a 22" portrait positioned touch screen	
6	The system shall have LED Light-based indicators to guide the patron through the process	
7	The system shall have an easy accessible integrated printer in a metal / wood housing that can be locked	
8	The system should support barcode identification from mobile phone screens	
9	The system shall have a thermal printer that can print paper rolls with a maximum width of 80mm	
10	The system shall be able to check in and out library items based on RFID and barcode	
11	The system shall have a V shape coil to support check-in and check-out using the combination RFID or barcode and EM strips	
12	The system shall have V shape coil supports a maximum item size of 275mm	
13	The system shall be able to detect multiple EM items and secure single item processing	
14	All user elements should be placed within DDA/ ADA range (for wheel chair drivers)	
15	The system shall Identify users with Barcode, RFID, Mifare and biometrics	
16	The system should have an optional payment module for cash (coins & notes) and chip & pin cards which can be connected for future use.	
17	The kiosk shall have a side shelf (on the right side) for placing bags, belongings or books while using the system	

18	The system shall be audio enabled to have the possibility for extended communication with the patron	
19	The kiosk shall have a graphic wrap. Content for the graphic wrap will be provided by the library, however its printing and application will be in vendors scope.	
20	The software shall enable checking library items in and out based on a SIP2 connection to the library management system	
21	The software shall enable patrons to check their account (items borrowed and expiration per item, fees and fines) and to prolong (if the library choose to allow for it)	
22	When processing library items (checking in-or out) the status of each item shall be displayed ((incl. the setting of the security bit and type of item (i.e. books, CD, DVD's, Blu-ray and games)	
23	The software shall allow to integrate payment functionality at a later stage (cash (coins & notes) and chip & pin cards, without software charges.	
24	The software shall allow the library to choose between several standard themes designs, also children's themes.	
25	The software shall allow the library to optional chose a customised theme	
26	The screen can display more than 10 languages that patrons can chose from for communication	
27	The software allows the patron to switch language whenever he/she wants to – also in the middle of a check-in / check-out session	
28	The software enables a patron to complete all functions (check in, check out, check account, payments) under one login, making the transaction process easy and smooth.	
29	The software shall have a possibility to display/promote Library activities	
30	The software can be configured to continue working in offline mode, when the connection to the LMS has failed. The software shall continue to let patrons borrow and return items to provide a continuous service; then once the connection to the LMS has been restored, all offline transactions shall be automatically uploaded to the LMS ensuring that all transaction history has been updated. If transactions fail to upload correctly then the staff will be alerted automatically	
31	The software shall provide relevant book recommendations to the users during the check-out process to improve circulation and improve library experience	
32	The software provides the opportunity to print a receipt with selected book recommendations	

33	The software can recommend books from the physical and digital book collection	
34	The software allows patrons to borrow digital books from selfservice units	
35	The software contains a communication link to an intranet based monitoring system and will cope with the requirements defined for that system.	
36	The software contains a tool to customize and run detailed reports from one location	
37	The system should have an inbuilt UPS backup to support the kiosk for minimum 4 hours in case of power failure. The UPS should be inside the kiosk and should not be external	

8 .Book Drop System		
No	Description	
1	The drop box should be aesthetically designed and must comply with internationally recognized standards for RFID based self-return system. It should have mechanism to disable both EM and RFID tags.	
2	Drop box must be integrated with ILM software through SIP2/NCIP protocol	
3	Drop must able to connect to the library's Ethernet network via an RJ45 connector and/or secured wireless network	
4	RFID Drop box should come with double/dual security system; first door should open after showing /validating the right book reading the RFID tag on the book or right library users by reading the RFID smart Card and/or Pin Number and/or biometric reading; once the validation is done and first door/shaft / is opened user should be able to place the book/s (1 or multiple of books); after a few second the first door should close and once the item in the library is confirmed, second door/shaft is opened and book is dragged inside on conveyer belt to single/multiple bin. It should prevent the users from removing the checked out books from the drop box.	
5	Once the transaction is complete system should be able to generate a slip confirming the transaction.	
6	Client software for checking-in facility and communicating with KOHA software / ILM Software with provision for E-mail/SMS confirmation	
7	If there is fine on the book, suggested notification should be alerted to users and instruct the user to pay the fine in the library within the library. Library should be able to customize the information on the slip as per library's requirements.	
8	Drop box should be upgradable in future to support multiple bins.	

9	Drop box should be able to accept all types of library's RFID tagged items including but not limited to books, journals, bound volume, CDs, DVDs, etc.	
10	If the item does not belong to the library, Drop box should not accept the item. But if the item is placed along with the valid library item, drop box should accept all items	
11	Drop box should be with in-built RFID Card / Biometric Reader / Virtual Keyboard / Number Keypad for validation of the user details as per library's current or future requirements	
12	Drop box comes with inbuilt slip generator with standard slips. Library should be able to procure the printer cartridge and paper from any other third party vendor. Bidder will share the details of the cartridge, paper, etc and make sure both are supported with open and international standard.	
13	Drop box should easily integrate with web-based application for remote as well as within campus monitoring of the performance of the system, alert for paper out or cartridge failure, or any kind of system failure, alerts, etc.	
14	Drop box should be inbuilt with industrial PC and minimum 19 inches Touch Screen for smooth operation. Bidder shall submit the relevant documents/ certificate / brochure / etc for the same.	
15	The drop box software should be customizable as per client's requirements both at the interface level and functional/feature level.	
16	The drop box should have book drop system with collection of books minimum of 100 items.	
17	Return bin of the drop box should have proper system to minimize the book damage. It should have a hydraulic mechanism to ensure that the panel drops down as the weight of the books increases.	
18	The system must automatically switch into store mode the check-in data when the system goes offline due to ILM software being in backup mode or the network being down etc.	
19	If the multiple items are processed, progress should be clearly reported to the users on screen.	
20	The system should have an inbuilt UPS backup to support the kiosk for minimum 4 hours in case of power failure. The UPS should be inside the kiosk and should not be external	

9	<p>Open Source Library Management Software Koha) Following initial level configuration/ customizations are required</p> <p>The following required fields should available in cataloguing –</p> <ul style="list-style-type: none"> i. Option for Z cataloguing ii. Date of Accessioning should come automatically at the time of cataloguing of books and other documents iii. Type of document, i.e. Book, Serial, Project Report, DVD/CD, e-Book, e-journals, etc. iv. ISBN/ISSN v. Author vi. Title vii. Edition viii. Volume ix. Publisher x. Year of Publication xi. Physical description (Pages, Size etc) xii. Notes xiii. Class No. xiv. Book No. xv. Curriculum area (i.e. Computer Science, Electronics and Communication, Maths, Physics, etc.) xvi. Subjects (i.e. Algorithms, DBMS, Programming Languages, etc.) xvii. List Price (INR, GBP, USD, UKP with conversion rates option) xviii. Price after discount xix. Vendor/Source xx. Invoice details xxi. PO details xxii. Remarks 	
10	<p>Patron details</p> <p>Following fields should available in Patron details –</p> <ul style="list-style-type: none"> i. Patron ID ii. Patron category (i.e. Teaching/ Non-teaching staff, UG student, PG student, PhD Scholar) iii. Name iv. Gender (Male/Female) v. Date of birth vi. User id and Password) vii. Department viii Area of interest ix. E-mail id x Mobile No./Contact No. xi. Membership start date xii. Membership Expire date xiii. No dues details 	
11	Instant e-mail/messages	

	<p>I Reminder on overdue</p> <p>ii. On check-in/check-out of books from library</p> <p>iii. To related faculty on arriving of suggested/recommended books</p> <p>iv. Instant reminder to publisher/vendor for due books, not received issues of journals on due date or after grace period.</p>	
12	<p>Reports</p> <p>Accession Register</p> <p>ii. Book suggestions report from Patrons for approval</p> <p>iii. Purchase order for vendor for book supply</p> <p>iv. Resource summary (Department wise, Subject wise, Date wise, Class No wise, Vendor wise, Publisher wise etc.</p> <p>v. Daily book issue report vi. Daily book return report</p> <p>vii. Current issued books report</p> <p>viii. New arrivals</p> <p>ix. Shelf list report</p> <p>x Most popular books</p> <p>xi. Overdue charges report date wise</p> <p>xii. Resource usage report Acc. No. Wise</p> <p>xiii. Current subscription of journals</p>	

All interrelated Software's & Integrations	
Description	
<p>Any software or integration which might be needed for smooth functioning of the system. The vendor has to ensure all integrations without any middleware. The institution may ask for integrations with the related hardware items anytime.</p>	

Annexure -

Forwarding Letter

(To be submitted on company's letter head)

To

The Deputy Registrar,
National Institute of Design Haryana
Transit campus at Govt. Polytechnic Building
Village Umri, Kurukshetra - 136131

Dear Sir,

Sub: Tender for Supply & Implementation of Library RFID Management System

This is in reference to your above mentioned tender for the procurement of RFID. Having examined the tender document, the receipt of which is hereby duly acknowledged, we the undersigned, hereby submit our proposal along with necessary supporting documents.

Further, we agree to abide by all the terms and conditions as mentioned in the tender document. We have also noted that NID Haryana reserves the right to consider/ reject any or all applications without assigning any reason thereof.

Date:/...../2020

Authorised Signatory.

Name:

Designation:

Compliance Sheet

Annexure: III

1 Book Label RFID Tag			Yes/No
No	Item	Description	
1	Dimensions	RFID Tag size 50 x 80 mm or comparable	
2	Thickness	350um Max	
3	Memory	Not less than 2048 bits	
4	Data Processing Rate	26Kbps Minimum	
5	Frequency	13.56 MHz	
6	Standard	ISO 15693 and 18000-3; ICODE SLIX2	
7	Type	Read/Write Lockable with unlimited Number of read/write cycles and must be re-writable	
8	Distance for Tag detection	36" Minimum	
9	Operation Mode	Passive	
10	Functionality	Both Security & Inventory Control	
11	Adhesive	The proposed system tags are adhesive-backed and one piece (tag and label integrated into one piece) to adhere to file materials without addition of an adhesive cover label. The proposed system tag uses a low acid, or neutral pH, adhesive.	
12	Operating Temperature Range	-25°C to +70°C approximately	
13	Other Features	<ul style="list-style-type: none"> f. A single tag for Identification, automation and Anti-theft must be read even if not visible and must be read inside the file; temper proof and has guarantee for the life of the item on which it is originally affixed. g. The proposed system tags enable the AFI security status to be stored directly on the tag and trigger an immediate alarm if an item not charged is read by the detection system. h. The proposed system tag is guaranteed for the life of the item on which it is originally affixed. Lifetime guarantee assures about the quality of the product offered and future replacement of the RFID tags which are found un-operational, without any extra cost. 	

		<ul style="list-style-type: none"> i. The tag supplied should have a branding of the OEM on the chip side j. The RFID tag and Book Label (EM Tag) should be from the same OEM 	
14	Antenna Type	Aluminum	
15	Samples	Tag samples to be provided with the technical bid	

2. Multi-Layered Optically Watermarked Sticking Labels with Institute Logo			
No	Item	Description	
1	Dimensions	70 x 70 mm or comparable	
2	Thickness	350um Max	
3	Paper	UDV Paper	
4	Printing	Color Printed 4 + 0	
5	Finishing	Die Cutting in roll form and not in sheets	
6	Logo	Color Printed Logo	
7	Adhesive	Strong, Non Removing Adhesive	
8	Other feature	Optical Watermark with Library Branding	
9	Samples	Tag samples to be provided with the technical bid	

3 Book Labels – EM			
No	Description		
1	The Size of the Security Strip should be minimum 160 mm X 3 mm for hardbound books, softbound books and periodicals;		
2	Strips must be guaranteed to perform for life time of the object in which they are placed.		
3	Strips once applied on material should be hidden in nature.		
4	The security strips shall be one-piece, flexible, thin, non-rusting metallic alloy coated with an adhesive film. The film shall not discolor or lose its adhesive or cohesive strength with age. The strips shall require no moisture, heat or additional glue, or adhesive for affixing to library materials.		
5	The strips shall be virtually unaffected by any shielding devices such as gum, cigarette wrappers, aluminum foils, human body, or by items held back-to-back or cover-to-cover, or concealed in briefcases or backpacks.		
6	Manufacturer shall warrant that the strips will be free of defects in materials & manufacture for the lifetime of the strip		
7	The RFID tag and Book Label (EM Tag) should be from the same OEM		
7	Vendor shall supply samples with the technical bid		

4 Job Work – Tagging of RFID, EM and Labels & Programming of Tags		
No	Description	
1	All books need to be tagged	
2	Affix EM Tag	
3	Affix RFID Tag	
4	Affix Sticking Label	
5	Programming of the Tags	

5 Smart Cards, printer and consumables, pre-printed with Original NXP Mifare 4K Chip		
No	Description	
1	Smart Cards with Original NXP Mifare 4K Chips, 1000 nos to be supplied	
2	Pre-printed with the Institute Approved Design (Static text)	
3	Programmed with Institute provided details (software application to be supplied)	
4	Memory of Cards: Minimum 4K	
5	Size of Cards: ISO ID Card Standard	
6	ISO Standard: ISO 14443A/B	
7	Only original NXP Mifare 4K Chips to be provided. Genuineness of the NXP cards will be validated using the TagInfo app provided by NXP, downloaded from NXP website. Samples to be provided with the technical bid.	
8	Only first sector to be used for the library setup. The remaining space will be used by the institution for future multiple applications. Vendor has to supply the software application for the printing and programming of the cards	
9	Printer with dual side color printing technique and system control display	
10	Consumables to print 1000 cards including 1000 cards, sufficient ribbons and cleaning kits	
11	Printer should be connected through USB only	
12	Printer should have inbuilt capability to print and program the cards in a single process. Printer encoding should support Mifare 4K chips. No external device to be connected.	

6 Electromagnetic Detection Gate System		
No	Description	
1	Detect genuine Tattle-Tape™ products in any orientation	
2	External devices, such as CCTV and/or barriers can be connected	

3	The system incorporates visual and audible alarms	
4	The alarm system has flexible light in 7 different colours: Red, cyan, magenta, blue, green, yellow, white	
5	The visual alarm can be configured to flash corridor specific or give a full system alert	
6	The audible alert has a variable alarm pattern and adjustable volume	
7	The system detects direction specific and can be configured for incoming, outgoing and Bi-directional	
8	The gates shall incorporate a people counter based on double sensor technology	
9	The system should have an integrated LED display for alert information and counts	
10	The integrated LED display should show incoming, outgoing and Bi-directional people counting information	
11	The system should incorporate an energy saving function that can remain in a low energy state until the people counter detects movement	
12	The gates shall provide full detection from 0 to 100cm	
13	It shall obtain optimal detection performance at a pedestal distance of 100cm	
14	The system should be provided with 'False positive filtering', reducing false alarms caused by foreign objects	
15	The system shall be built on a master – slave principle with up to 6 pedestals (5 gates) in one single system	
16	The system shall provide multiple gate installation up to 5 gates	
17	One electronics chassis should support a minimum of three antennas (2 gates).	
18	The people counter display should be located on the electronic chassis so figures can be easily seen	
19	The antenna's mounting points must be easy to install	
20	The antenna's shall have the following dimensions H 1786 x W 597cm for optimal detection	
21	The system shall provide an optional Baseplate for easy install available for single or dual gate installations	
22	The antennas shall have side panel designed for applying customizable vinyl graphics for promotion activities. The institute will provide the content which is to be printed on these panels. Printing & application in the vendors scope.	
21	The weight per gate should not be more than 36.3 KG	
23	The system should be connected through TCP/IP and the people count should be available directly through TCP/IP	

7 Hybrid Self Check In Check Out System		
No	Description	
1	The kiosk shall be free standing	
2	The housing shall be made of metal / wood	
3	The housing covers computer hardware, wiring and power supply and can be locked. No wires or peripherals should be accessible from outside	
4	The system shall have minimum 2 external USB connectors for service & maintenance	
5	The system shall have a 22" portrait positioned touch screen	
6	The system shall have LED Light-based indicators to guide the patron through the process	
7	The system shall have an easy accessible integrated printer in a metal / wood housing that can be locked	
8	The system should support barcode identification from mobile phone screens	
9	The system shall have a thermal printer that can print paper rolls with a maximum width of 80mm	
10	The system shall be able to check in and out library items based on RFID and barcode	
11	The system shall have a V shape coil to support check-in and check-out using the combination RFID or barcode and EM strips	
12	The system shall have V shape coil supports a maximum item size of 275mm	
13	The system shall be able to detect multiple EM items and secure single item processing	
14	All user elements should be placed within DDA/ ADA range (for wheel chair drivers)	
15	The system shall Identify users with Barcode, RFID, Mifare and biometrics	
16	The system should have an optional payment module for cash (coins & notes) and chip & pin cards which can be connected for future use.	
17	The kiosk shall have a side shelf (on the right side) for placing bags, belongings or books while using the system	
18	The system shall be audio enabled to have the possibility for extended communication with the patron	
19	The kiosk shall have a graphic wrap. Content for the graphic wrap will be provided by the library, however its printing and application will be in vendors scope.	
20	The software shall enable checking library items in and out based on a SIP2 connection to the library management system	

21	The software shall enable patrons to check their account (items borrowed and expiration per item, fees and fines) and to prolong (if the library choose to allow for it)	
22	When processing library items (checking in-or out) the status of each item shall be displayed ((incl. the setting of the security bit and type of item (i.e. books, CD, DVD's, Blu-ray and games)	
23	The software shall allow to integrate payment functionality at a later stage (cash (coins & notes) and chip & pin cards, without software charges.	
24	The software shall allow the library to choose between several standard themes designs, also children's themes.	
25	The software shall allow the library to optional chose a customised theme	
26	The screen can display more than 10 languages that patrons can chose from for communication	
27	The software allows the patron to switch language whenever he/she wants to – also in the middle of a check-in / check-out session	
28	The software enables a patron to complete all functions (check in, check out, check account, payments) under one login, making the transaction process easy and smooth.	
29	The software shall have a possibility to display/promote Library activities	
30	The software can be configured to continue working in offline mode, when the connection to the LMS has failed. The software shall continue to let patrons borrow and return items to provide a continuous service; then once the connection to the LMS has been restored, all offline transactions shall be automatically uploaded to the LMS ensuring that all transaction history has been updated. If transactions fail to upload correctly then the staff will be alerted automatically	
31	The software shall provide relevant book recommendations to the users during the check-out process to improve circulation and improve library experience	
32	The software provides the opportunity to print a receipt with selected book recommendations	
33	The software can recommend books from the physical and digital book collection	
34	The software allows patrons to borrow digital books from selfservice units	
35	The software contains a communication link to an intranet based monitoring system and will cope with the requirements defined for that system.	
36	The software contains a tool to customize and run detailed reports from one location	

37	The system should have an inbuilt UPS backup to support the kiosk for minimum 4 hours in case of power failure. The UPS should be inside the kiosk and should not be external	
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8.Book Drop System		
No	Description	
1	The drop box should be aesthetically designed and must comply with internationally recognized standards for RFID based self-return system. It should have mechanism to disable both EM and RFID tags.	
2	Drop box must be integrated with ILM software through SIP2/NCIP protocol	
3	Drop must able to connect to the library's Ethernet network via an RJ45 connector and/or secured wireless network	
4	RFID Drop box should come with double/dual security system; first door should open after showing /validating the right book reading the RFID tag on the book or right library users by reading the RFID smart Card and/or Pin Number and/or biometric reading; once the validation is done and first door/shaft / is opened user should be able to place the book/s (1 or multiple of books); after a few second the first door should close and once the item in the library is confirmed, second door/shaft is opened and book is dragged inside on conveyer belt to single/multiple bin. It should prevent the users from removing the checked out books from the drop box.	
5	Once the transaction is complete system should be able to generate a slip confirming the transaction.	
6	Client software for checking-in facility and communicating with KOHA software / ILM Software with provision for E-mail/SMS confirmation	
7	If there is fine on the book, suggested notification should be alerted to users and instruct the user to pay the fine in the library within the library. Library should be able to customize the information on the slip as per library's requirements.	
8	Drop box should be upgradable in future to support multiple bins.	
9	Drop box should be able to accept all types of library's RFID tagged items including but not limited to books, journals, bound volume, CDs, DVDs, etc.	
10	If the item does not belong to the library, Drop box should not accept the item. But if the item is placed along with the valid library item, drop box should accept all items	
11	Drop box should be with in-built RFID Card / Biometric Reader / Virtual Keyboard / Number Keypad for validation of the user details as per library's current or future requirements	

12	Drop box comes with inbuilt slip generator with standard slips. Library should be able to procure the printer cartridge and paper from any other third party vendor. Bidder will share the details of the cartridge, paper, etc and make sure both are supported with open and international standard.	
13	Drop box should easily integrate with web-based application for remote as well as within campus monitoring of the performance of the system, alert for paper out or cartridge failure, or any kind of system failure, alerts, etc.	
14	Drop box should be inbuilt with industrial PC and minimum 19 inches Touch Screen for smooth operation. Bidder shall submit the relevant documents/ certificate / brochure / etc for the same.	
15	The drop box software should be customizable as per client's requirements both at the interface level and functional/feature level.	
16	The drop box should have book drop system with collection of books minimum of 100 items.	
17	Return bin of the drop box should have proper system to minimize the book damage. It should have a hydraulic mechanism to ensure that the panel drops down as the weight of the books increases.	
18	The system must automatically switch into store mode the check-in data when the system goes offline due to ILM software being in backup mode or the network being down etc.	
19	If the multiple items are processed, progress should be clearly reported to the users on screen.	
20	The system should have an inbuilt UPS backup to support the kiosk for minimum 4 hours in case of power failure. The UPS should be inside the kiosk and should not be external	

9	<p>Open Source Library Management Software Koha) Following initial level configuration/ customizations are required</p> <p>The following required fields should available in cataloguing –</p> <ul style="list-style-type: none"> i. Option for Z cataloguing ii. Date of Accessioning should come automatically at the time of cataloguing of books and other documents iii. Type of document, i.e. Book, Serial, Project Report, DVD/CD, e-Book, e-journals, etc. iv. ISBN/ISSN v. Author vi. Title vii. Edition viii. Volume ix. Publisher x. Year of Publication xi. Physical description (Pages, Size etc) xii. Notes xiii. Class No. xiv. Book No. xv. Curriculum area (i.e. Computer Science, Electronics and Communication, Maths, Physics, etc.) xvi. Subjects (i.e. Algorithms, DBMS, Programming Languages, etc.) xvii. List Price (INR, GBP, USD, UKP with conversion rates option) xviii. Price after discount xix. Vendor/Source xx. Invoice details xxi. PO details xxii. Remarks 	
10	<p>Patron details</p> <p>Following fields should available in Patron details –</p> <ul style="list-style-type: none"> i. Patron ID ii. Patron category (i.e. Teaching/ Non-teaching staff, UG student, PG student, PhD Scholar) iii. Name iv. Gender (Male/Female) v. Date of birth vi. User id and Password) vii. Department viii Area of interest ix. E-mail id x Mobile No./Contact No. xi. Membership start date xii. Membership Expire date xiii. No dues details 	
11	Instant e-mail/messages	

	<p>I Reminder on overdue</p> <p>ii. On check-in/check-out of books from library</p> <p>iii. To related faculty on arriving of suggested/recommended books</p> <p>iv. Instant reminder to publisher/vendor for due books, not received issues of journals on due date or after grace period.</p>	
12	<p>Reports</p> <p>Accession Register</p> <p>ii. Book suggestions report from Patrons for approval</p> <p>iii. Purchase order for vendor for book supply</p> <p>iv. Resource summary (Department wise, Subject wise, Date wise, Class No wise, Vendor wise, Publisher wise etc.</p> <p>v. Daily book issue report vi. Daily book return report</p> <p>vii. Current issued books report</p> <p>viii. New arrivals</p> <p>ix. Shelf list report</p> <p>x Most popular books</p> <p>xi. Overdue charges report date wise</p> <p>xii. Resource usage report Acc. No. Wise</p> <p>xiii. Current subscription of journals</p>	

All interrelated Software's & Integrations	
Description	
Any software or integration which might be needed for smooth functioning of the system. The vendor has to ensure all integrations without any middleware. The institution may ask for integrations with the related hardware items anytime.	

Annexure IV**Manufacturers Authorisation Form**

To,

The Deputy Registrar,
National Institute of Design Haryana
Transit campus at Govt. Polytechnic Building
Village Umri, Kurukshetra - 136131

Sub: Tender for Supply & Implementation of Library RFID Management System

Dear Sir,

We, _____, who are established and reputable manufacturers of _____, having factory/office at _____, hereby authorize M/s _____ **[Name and address of vendor/agents/distributors]** to submit a bid, negotiate and conclude the order with you for the above goods manufactured by us. against the above Tender No _____ dated _____.

We hereby extend our full guarantee and warranty as per the clauses of contract based on the terms and conditions of the Tender for the goods and services offered for supply by the above firm against the Tender.

Yours faithfully

Name of the manufacturer

Note: This letter of authority should be on the letterhead of the manufacturer and should be signed by a person competent and having the power of attorney to bind the manufacturer. It should be included by the bidder in its bid.

Annexure: V

FORMAT FOR NON BLACKLISTING OF SUPPLIER

I/ We _____Manufacturer/partner/Authorized Distributor/Agent
(strike out which is not applicable) of (Supplier) _____ do hereby
declare and solemnly affirm that the individual/firm/company is not black-listed
by the Union/State Government/Autonomous body.

Deponent
Address _____

I/ We hereby solemnly declare and affirm that the above declaration is true
and correct to the best of my knowledge and belief. No part of it is false and
nothing has been concealed.

Deponent
Dated: _____

(Note: To be furnished on non-judicial stamp paper duly attested by the Oath Commissioner.)

