

**Tender Notice for Supply, Installation, Commissioning, Training and Maintenance of Radio Frequency Identification (RFID) system and its integration with Integrated Library Management system (ILMS) KOHA using SIP2/NISO NCIPV2.0**

**Tender No. : NRLC/2017-18/01**

**Date of Issue : 09.08.2017**

**Date of Closing : 30.08.2017**



Government of India, Ministry of Culture  
**National Research Laboratory for  
Conservation of Cultural Property (NRLC)**  
E/3 Aliganj, Lucknow- 226 024

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## Notice Inviting Tender

National Research Laboratory for Conservation of Cultural Property (hereinafter referred to as "NRLC") invites sealed tender for Supply, Installation and commissioning of RFID system and its integration with Integrated Library Management system (ILMS) KOHA using SIP2/NISO NCIPV2.0 at NRLC Library at Lucknow. The bidding document should be downloaded from NRLC website: <http://www.nrlc.gov.in/tenders/> or from CPPP portal.

S.No.	Items	Description
1.	<b>Scope of work</b>	RFID based Electronic Security System and Book Charging, Discharging and other related jobs (Fixing Tags, Registering Accn. No on Tags and Shielding of Logo etc integrated with ILMS KOHA for NRLC Library, Lucknow.
2.	<b>Documents download start date</b>	<b>10.08.2017</b>
3.	<b>Bid submission end date</b>	<b>30.08.2017 (05.00 P.M.)</b>
4.	<b>Date of opening of Technical &amp; Financial Bid</b>	<b>31.08.2017 (11.00 A.M.)</b>
5.	<b>Bid Processing Fee</b>	Rs.1000 (Non- Refundable) to be paid in the form of Demand Draft in favour of "DDO, NRLC" payable at Lucknow.
6.	<b>EMD</b>	Rs.20,000 (Rupees. Twenty thousand only) Demand Draft in favour of "DDO, NRLC" payable at Lucknow
7.	<b>Place of Opening of Bids</b>	<b>NRLC Training Institute, Sector-G, Jankipuram, Lucknow- 226 021</b>
8.	<b>Address for submitting Tenders</b>	<b>Director General, NRLC Training Institute, Sector-G, Jankipuram, Lucknow- 226 021</b>

Bids will be opened in the presence of Bidder's representatives who choose to attend on the specified date and time.

In the event of the date specified for bid receipt and opening being declared as a Closed holiday for purchaser's office, the due date for submission of bids and Opening of bids will be the following working day at the appointed times.

## Section- I: Invitation for Bids

NRLC invites sealed tenders under two bid systems from eligible bidders for supply, installation, commissioning and maintenance of RFID system which has to be integrated with KOHA LMS. The various components of RFID should conform to International ISO Standard- ISO18000-6C and frequency as per wireless planning commission of India designated for usage of RFID in India. **The bidders shall be expected to provide the following equipments as per the technical specifications given in Annexure I. The bidders must attach the authorization letters for the below given equipment :**

Sr. No.	Item	Make and Model	Name of OEM	Authorization Letter Attached? (Yes/No)
1	Library Staff Station			
2	Self Check in/ Check Out Kiosk			
3	Two EAS Pedestals Library Security Gate			
4	Handheld Portable Reader			
5	Self Adhesive RFID Tags			
6	Institution Labels			
7	Smart Cards			
8	Integration Module / Middleware			
9	Pen Tablet			
10	Web Camera			

## **Section- II: Eligibility Criteria of Bidders**

1. Bidder should be a company registered in India under the Company Act or should be Public sector organization. Furnish certificate of registration.
2. The Bidder must have a registered or supporting partner office in India.
3. The bidder must be an Original Equipment Manufacturer (OEM) /authorized partner of RFID hardware components
4. The bidder have experience of installing similar technology RFID Solution in reputed libraries of Central/ State government/Universities/College/research institutes with at least 20,000 and above books integrated with KOHA.
5. The bidder or its OEM must have supplied and installed similar RFID systems to any central government institute and supported it for at least 3 years. A necessary certificate towards support for last three years should be provided.
6. The hardware provided by OEM should be non proprietary, LMS independent and OEM/authorized partner should have installed their hardware in at least 4 different (from different companies) and popular Library Management Software including Koha. Necessary Certificate of Integration and Installation with 4 different LMS should be provided.
7. The Bidder should have at least INR 50 Lacs turnover on an average for the last 3 Financial Year(2014-15, 2015-16, 2016-17)). The ITR and Balance Sheet for the respective year need to be placed in the bid.
8. All the products supplied should be in the frequency as mentioned by Wireless Planning commission of India for usage of RFID in India. Necessary documentation proof should be provided.

### **Section-III: Terms and Conditions**

1. The bidder shall bear all expenses of packaging, forwarding, freight, insurance in connection with delivery, repairs and replacements made within the warranty, period.
2. The vendor shall be responsible for any loss, damage, breakage etc in transit site.
3. The vendor shall bear the expenses which may incur while unloading of items, deployment of unskilled labour during installation of RFID.
4. The vendor shall undertake and finish installation, integration, implementation, commissioning and training of the proposed system within 30 days of receiving the confirmed order.
5. Warranty : The Performance / supply of the RFID Materials should be under tenders warranty for one year including all parts / equipments included in the Annexure-1, from the date of supply and acceptance by the Concerned authority. However the manufacturers guarantee if any, which exceeds should be extended. After warranty period, the bidder shall also quote rates for additional 2 years extended warranty on supplied hardware and software, their spare parts, upgrades and AMC charges.
6. The warranty period shall be effective from the date of having completed successful installation, integration, implementation and training on the system in the Library.
7. The vendor shall be fully responsible for the performance of all components of the RFID materials and any defective material shall be replaced by the vendor free of cost during the warranty period.
8. The bidder shall clearly specify their service option during the warranty and maintenance contract period to ensure that the functioning of the proposed RFID system is not interrupted after installation.
9. NRLC shall have the liberty to terminate the AMC in case it is not satisfied with the services/AMC provided by the successful bidder.
10. The successful bidder shall be responsible for coordination and integration of the proposed system with existing library management system and resolve any RFID and ILMS/KOHA functionality problems with the support from existing ILMS provider.
11. The quantity of the above items may defer subject to the requirements of the Library.
12. The vendor shall submit proposal which should be open in terms of modularity, expandability and upgradeability in future.
13. The proposed system shall have remote monitoring which must include instant e-mail notification, monitoring of Check-in and out rates, web based trouble shooting and the ability to obtain statistics for each machine from any location.
14. The supplied hardware shall have the provision to upgrade their firmware online.
15. The bidders shall clearly mention the responsibility and requirements from the Library staff.

16. The bidder shall submit an overall installation plan with regard to placement of hardware, physical infrastructure, power and ventilation requirements so as to maximize the workflow without disrupting the normal duties and services.
17. The bidders shall respond to the technical specifications in the format given in Annexure I
18. The bidders shall quote in the format as given in Annexure II and III of Tender document.
19. The bidder shall sign all the pages of the bid
20. The bidders shall quote rates inclusive of all taxes and duties, packaging, forwarding, freight, insurance and all other incidental charges. In case, these are charged additionally, these shall be clearly specified.
21. The bidders shall submit their bid in two bid systems as under:
  - Part I: Technical Bid
  - Part II: Financial Bid
22. The technical bids will consist of brochures, datasheets, compliance statement, tenders terms and conditions acceptance and will be opened by the technical committee as per the date mentioned above in the tender. The same day financial bids also will be opened.
23. The officer inviting tender shall not be held liable for any delay due to system failure beyond his control. The officer will attempt to notify the bidder of any bid updates, the employer shall not be liable for any information not received by the bidder. It is the bidder's responsibility to verify the website for the latest information related to the tender.
24. It would not be binding on institute to accept the lowest offer. The criteria for awarding the contract will be to the most suitable offer in terms of product quality, specifications, vendor experience, eligibility and price.
25. Library reserves the right to negotiate any alterations to bid specifications due to oversight or error.
26. The applications of those bidders who do not deposit EMD along with the tender shall be rejected.
27. Specifications of the hardware items given in this bid document are the minimum requirements. The bidder may offer items with higher specifications. However, no price advantage for such specifications shall be given.
28. All rates quoted are inclusive of all applicable taxes, duties, comprehensive on-site warranty of 1 year, etc. and free delivery at Library, NRLC, E/3 Aliganj, Lucknow.

29. The rates must be quoted both in figures and words and over-writing must be avoided.
30. The bid should be given for the items in the same order as is given in the Tender document.
31. Schedule of delivery of items/job work, etc. should be clearly mentioned.
32. If the supplier/firm is manufacturer/authorized dealer/sole distributor/authorized agent of any item, the certificate to this effect should be attached.
33. The quantity shown against each item is approximate and may vary as per the demand of NRLC at the time of placing order.
34. NRLC reserves the right to accept/reject any bid wholly or partly.
35. The vendor should have their own bank account in the name of the registered agency.
36. Each quotation must be accompanied with EMD valid for a period of 180 days of quotation. Quotation received without Earnest Money Deposit is liable to be rejected.
37. Earnest Money Deposited liable to be forfeited and bid is liable to be rejected if the tenderer withdraws or amend, impairs or derogates from the tender in any respect within the period of validity of the tender.
38. The Earnest Money of all unsuccessful tenderers will be returned as early as possible after the expiration of the period of the bid validity. No interest will be paid by NRLC on the Earnest Money Deposit.
39. Bidder will be fully responsible for standard integration using SIP -II protocol with LMS and the performance of all component of the RFID equipments and materials and other equipments being supplied and installed and any malfunction/defective materials should be replaced free of cost during the warranty period. The entire system should be compatible with Library Management Software. It would be responsibility to demonstrate functioning of entire RFID system and other equipments on Library Management Software being used.
40. The bidder shall agree towards local customization and personalization on all aspects of the proposed system during the implementation and warranty period to ensure a smooth functioning and user friendly environment.
41. Quotations should be submitted in two separate covers. First cover indicating "COVER FOR TECHNICAL SPECIFICATION" should have technical specification as per Annexure-I and Earnest Money.
42. The second cover indicating "COVER FOR FINANCIAL BID" should have price as per Annexure -III. Both the covers should be sealed separately and both the covers should be sealed in a bigger cover.
43. In addition to the OEM warranty of one year, Bidders should quote with the Comprehensive (including hardware & software support) onsite Warranty/Guarantee/Extended Warranty, technical support for additional of 2 years with least minimum down time of 04 hours. The selected firm for the supply of tendered item will have to provide free up-gradation of software and firmware (all update & upgrades, spares, accessories and labor) upto 3 years from the date of satisfactory installation.



## **Rejection Criteria**

The bid(s) will be rejected in case of any one or more of the following conditions:

1. Bids which are not substantially responsive to the Tender Document.
2. Bids not made in compliance with the procedure mentioned in this document or not substantively responsive.
3. Failure on part of the Bidder to provide appropriate information as required in the bid proposal or any additional information as requested by NRLC including any supporting document.
4. Incomplete or conditional bids or bids that do not fulfill all or any of the conditions as specified in this document.
5. Bids without earnest money deposit.
6. The submission of more than one bid under different names by one Bidder. If the same is found at any stage, all the bids by that bidder will be rejected.
7. Material inconsistencies in the information submitted.
8. Misrepresentations in the bid proposal or any supporting documentation.
9. Bid proposal received after the last date and time specified in this document.
10. Bids found in unsealed cover, unsigned bids, bids signed by unauthorized person and unsigned corrections in the bids.
11. Bids containing erasures or overwriting except as necessary to correct errors made by the Bidder, in which case such corrections shall be authenticated by the person signing the bid.
12. Bid(s) not complying with Delivery, installation & commissioning, warranty, penalty, and AMC clauses will be rejected.
13. The bidder should quote for all the items mentioned in the tender, failing which, their offer will be rejected.
14. The Bidder has to be OEM/Joint Venture of OEM/Subsidiary of OEM/Authorized Dealer of OEM. Joint Venture companies, subsidiaries and authorized dealers must submit Authorization certificate (in original) from OEM, as per Technical Specification attached herewith, stating that the OEM will provide support directly or through the particular dealer during the warranty period including replacement of spares and the validity of the certificate should be for a minimum period of 24 months from the date of submission of offers/bids, failing which, their offer will be rejected.

15. The Bidder should provide an Undertaking of authenticity of IT Hardware/Software supplies,(in original), from OEM, should be attached, stating that no refurbished/ duplicate/ second hand components/ parts/ assembly/ software, shall be used, failing which, their offer will be rejected.

**Time Frame of Project Execution**

The time frame of completion of the project that is Installation of Hardware, Software, Tagging, Testing, Training, Customization, Reporting, etc within a period of 30 days from the date of offer of Contract. The successful bidder has to submit the project execution plan with concrete milestones along with tender which will be reviewed by the committee.

**\*\* Note:** The bidder should strictly follow the project schedule .All the trained manpower deployed should be well mannered , disciplined and responsible.

**Time – Essence of Contract :**

The time allowed for completing the work under tender and handing over the same shall be of the essence of the Contract and shall be strictly observed by the bidder. The Work shall proceed with due diligence until Final Completion. Bidders shall have no right or claim for the extension of the contract in any circumstances. For delay, bidder shall be liable to pay penalty and/or liquidated damages as decided by the NRLC and such decision of the NRLC shall be final. NRLC also reserve right to its sole discretion to terminate the contract.

**Payment**

90% payment shall be made against completion and remaining 10% would be retained as performance guarantee and the payment would be made after three months after verification of the performance.

**Bid Evaluation Criteria**

The bids conforming to the technical specifications as required, terms and conditions stipulated in the tender and considered to be responsive after subjecting to the Bid Rejection Criteria as well as verification of original of any or all documents/ documentary evidences pertaining to BRC, will be considered for further evaluation as per the Technical Specification given below

**Queries and Clarification:**

The queries and clarification in this document may be addressed to "Director General, NRLC Training Institute, Sector-G, Jankipuram, Lucknow-21 " and the same may be sent through conventional mail as well as e-mail (nrlclucknow.lib@gmail.com) in the format mentioned below:

Sl.No.	Clause No as per NRLC document	Your Understanding / Interpretation	Clarification Sought

## **Penalty and Liquidate Damage :**

In case, the firm fails to supply and installation of the material as specified in the purchase order, a sum equivalent to 0.5% of the contract price per week or part thereof off delay until actual implementation or performance shall be deducted from the bill up to a maximum deduction of 10% of the contract price. Once the maximum is reached, we may consider termination of the contract.

## **Other Conditions**

1. **Confidentiality:** The Bidder / Tenderer and their personnel shall not, either during the term or after expiration of this Purchase order and work order, disclose any proprietary or confidential information relating to the services, agreement or NRLC business or operations without the prior written consent.
2. **Force Majeure:** During the pendency of the Licensee , Supply and Service Agreement if the performance in whole or part thereof, by either party is prevented/delayed by causes arising due to any war, hostilities, civil commotion, act of public enemy, sabotage, fire, floods, explosion, epidemics, non-availability of raw material, and other consumables, or any other causes including breakdown of equipment beyond their reasonable control. Neither of the two parties shall be made liable for loss or damage due to delay or failure to perform the contract during the pendency of forced conditions provided that the happenings are notified in writing within 7 days from the date of occurrence. The work shall be resumed under the contract as soon as possible after the restoration of normalcy.
3. **Termination of Purchase Order and Work Order:** NRLC may, without prejudice to any other remedy for breach of agreement, may terminate the work order in whole or in part, by written notice of default sent to the Bidder, and the performance guarantee shall stand forfeited if,
  - i. The Bidder fails to deliver /supply any or all of the obligations within the time period(s) specified in the Purchase Order and work order/agreement, or any extension thereof granted by NRLC .
  - ii. The Bidder fails to perform any other obligation(s) under the Purchase order and work order/agreement and fails to rectify it within the notice period for the rectification of the same.
  - iii. Information submitted in technical proposal is found to be misrepresented, incorrect or false, accidentally, unwittingly or otherwise, at any time during the processing of the contract (no matter at what stage) or during the tenure of the contract including the extension period if any.
4. **Termination for Insolvency :** NRLC may at any time terminate the Purchase order and work order by giving written notice to the Bidder without compensation, if the Bidder becomes bankrupt/insolvent, provided that such termination shall not prejudice or affect any right of action or remedy which has accrued thereafter to NRLC.
5. **Periodic monitoring and review:** The Supply of equipment required software ,work and progress of the work shall be periodically monitored and reviewed by NRLC for this purpose.
6. **Suspension:** NRLC may by a written notice of suspension to the Bidder / Tenderer, suspend all payments to the Bidder under the Purchase order and work order, if the Bidder fails to perform any of its obligations under this work order/agreement, (including the carrying out of the supply and services).

7. **Arbitration:** All disputes, differences, claims and demands arising under or pursuant to or touching the agreement shall be referred to the sole arbitrator to be appointed by NRLC. The award of the sole arbitrator shall be final and binding on both the parties under the provisions of the Arbitration and Conciliation Act , 1996 or by statutory modification/re-enactment thereof for the time being in force. Such arbitration shall be held at NRLC. It is clarified that Civil court shall have no jurisdiction to entertain any such disputes.
8. **Jurisdiction of Courts:** In all matters and disputes arising hereunder, the appropriate Courts at Lucknow only shall have jurisdiction to entertain and try them only after the failure of arbitration process, if any.
9. **Signing of Agreement :** NRLC and the successful bidder will sign the Service Level agreement (SLA) incorporating all the terms & conditions agreed between the two parties.
10. **Schedule of Implementation: The** total time limit for the successful implementation and completion of assigned / ordered supply and job work shall be 30 days from the date of signing the agreement.

Sd/-

Director General  
NRLC, Lucknow

## Annexure-1

### TECHNICAL MINIMUM SPECIFICATIONS

<b>Item No. 1: Library Staff Station</b>			
<b>Item Minimum Specifications</b>	Proposed Make/ Model No. & Country of origin	Matched/ Not Matched	Deviation, if any
<p>Read/Write/Anti-theft programming should be done in one single operation</p> <p>Read/Write distance of Up to 25 cm and programming time of 1 second</p> <p>Should be fully ISO/IEC 14443A, 15693 and ISO 18000:3 compliant</p> <p>The programming station should interface with the Library Management Software using NCIP V2.0 protocol</p> <p>Integrated with reader for patron ID Card based ISO/IEC 14443A Mifare Plus to read for circulation</p> <p>Integrated with reader for patron ID Card based ISO/IEC 14443A Mifare Plus for personalization of data into the ISO/IEC 14443A Mifare Plus passive contact less 1Kb smart card in the pre-defined location in the memory The details of memory location in smart card will be provided at appropriate time</p> <p>NCIP V2.0 compliance software interface integrated with integrated library management software for all operations like patron card personalization, check-in. check-out, renew, reserve etc of library circulation</p>			
<b>Specifications</b>			
<b>Parameter</b>	<b>Technical Specs</b>		
Operating Frequency	13.56 MHz		
Power Supply	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 for power, read verification etc.		
Operating Temperature	-10°C to +70°C		
Weight	800 grams approximately		
Housing Material	ABS Plastic		

**Item No. 2: Self Check Out/Self Check In Kiosk Station**

Item Minimum Specifications	Proposed Make/Model No. & Country of origin	Matched/unmatched	Deviation, if any
<p>RFID Reader and Antenna with multiple Read/Write facility</p> <p>Kiosk should suit the library decor</p> <p>High Speed Thermal Slip Printer</p> <p>15” or higher LCD Touch Screen Monitor using Capacitive Technology</p> <p>Branded Small Form Factor CPU</p> <p>Multi protocol firmware ISO/IEC 14443A, 15693 and ISO 18000:3 compliant</p> <p>Communication interface — Ethernet</p> <p>The Self Checkout station client software should interface with the ILMS Software giving following features:</p> <ul style="list-style-type: none"> <li>◦ Check out / Renewal</li> <li>◦ Transaction Status</li> <li>◦ Transaction Printout</li> </ul> <p>Provision for display of reservations done by a user along with sequence and date of collection,</p> <p>Provision of enquiry of checkouts against a user and its due date.</p> <p>Provision for enquiry of fine against a user,</p>			
<b>Specifications</b>			
<b>Parameter</b>	<b>Technical Specs</b>		
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	15” or higher TFT capacitive touch screen		

**Item No. 3: Two EAS Pedestals Library Security Gate**

Item Minimum Specifications		Proposed Make/Model No. & Country of origin	Matched/Not Matched	Deviation, If any
<p>Security gate should include two theft detection pedestals, which are interdependent of each other and also have an overlapping protection zones providing additional security. It is planned to install these pedestals at a single location in the library. The system should have suitable number of I/O ports for Standard electronic counter, web cam trigger, CCTV, locking gates etc. The offer must be complete in all respects with CCTV integration and must include all the components required for the functional of the system Library security gate. It should also have 4 line infrared motion sensors to detect library foot falls and in-out numbers.</p>				
<b>Specifications</b>				
<b>Parameter</b>	<b>Technical Specs</b>			
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			
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			

Item No. 4: Hand Held Portable Reader		Proposed Make/Model No. & Country of origin	Matched/Not Matched	Deviation, If any
Item Minimum Specifications				
The portable handheld reader (Wand) and the required accessories must be a cordless, one-piece design, to be held in one hand.				
The proposed portable handheld reader must have an audible tone and visible indicators to verify item has been identified.				
The total weight of the portable handheld reader must be less than 1 Kg., including battery, RFID reader, antenna and computing unit, and any other components that must be carried by the user.				
The portable handheld reader must incorporate an ergonomic design, to aid user in reading shelves at all levels easy to use and be relatively non-stressful to wrist, arm, shoulder and elbow.				
The portable handheld reader must use an anti-collision algorithm that does not limit the number of tags, which can be simultaneously identified and read.				
The portable handheld reader must have the capacity to download at least 1 million items from library's automation system onto the portable handheld reader memory medium.				
The proposed system must accommodate Sorting, Shelving, Searching, finding of library documents and pulling the defined data to help the user.				
<b>Specifications</b>				
<b>Parameter</b>	<b>Technical Specs</b>			
Operating Frequency	13.56 MHz			
Power Supply	9V			
Standby Mode (battery life)	4 Hours			
Charging Time	4.5 Hours			
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			
Storage Memory	4GB			
Weight (including battery)	<1000 gms			
Housing Material	ABS Plastic			



## Item No. 5: Self Adhesive RFID Tags

Item Minimum Specifications	Proposed Make/Model No. & Country of origin	Matched/ Not Matched	Deviation, If any
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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 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

### Mechanical Dimension

- Transponder coil size 80X50 mm  $\pm$  0.5mm
- Transponder die-cut size 80 x 50 mm 0.2 mm
- Thickness of the IC 150 micrometer  $\pm$  10%
- Overall thickness of transponder package (excluding IC and siliconized paper) 200 micro meter  $\pm$  10%
- Thickness of the siliconized wafer 56 micro meter

### Electrical characteristics

- Integrated Circuit (IC) Philips i-Code-SLI X.
- ICS protocol /anti-collision ISO 15693/18000-3
- Operating frequency 13.56 MHz
- Unloaded resonance frequency 14.15 MHz  $\pm$ 0.30 MHz
- Memory 2048 bits R/W EEPROM

### General characteristics of transponder

1. Operating temperature (electronics parts): -20°C to \*85°C
2. ESD voltage immunity +12 kV peak. HBM
3. Bending diameter (D) > 50 mm. tension less than 10 N
4. Static pressure (P) < 10 MPa (10 N/mm<sup>2</sup>)

**Item No. 6: Institution Labels**

Item Minimum Specifications	Proposed Make/Model No. & Country of origin	Matched/ Not Matched	Deviation, If any
<b>Good quality self adhesive labels of following specification:</b>			
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			

<b>Item No. 7: Smart Cards</b>			
Item Minimum Specifications	Proposed Make/Model No. & Country of origin	Matched/ Not Matched	Deviation, If any
The smart cards should be 1kb Mifare Plus cards.			
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			

Item No. 8: Integration Module / Middleware			
Item Minimum Specifications	Proposed Make/Model No. & Country of origin Proposed Make/Model No. & Country of origin	Matched/ Not Matched	Deviation, If any
Client Software should support following features and is to be Integrated with existing Integrated Library Management Software (ILMS) KOHA			
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. <b>1 Lack SMS with 1 year validity.</b>			
NCIP V2.0 compliance			
Retagging option for re-registration of books & patrons			
Sorting by accessing Title record from ILMS <ul style="list-style-type: none"> <li>• Check out /Check-in/Renewal/EAS Synchronization</li> <li>• Provision to display of reservations done by a member along with sequence and date of collection</li> <li>• Provision of enquiry of checkouts against a member and its due date</li> <li>• Provision for details of fine against a member</li> <li>• Provision of slip printing containing the details of a transaction</li> <li>• Reserved titles shall get highlighted while check-in</li> </ul>			

Item No. 9: RFID Tagging Job Work			
Item Minimum Specifications	Qty.	Matched/ Not Matched	Deviation, If any
RFID Tag & Sticker to be pasted in same process	15,000		
ISO 28560 standard followed for tagging			
Minimum 500 books to be completed in a day			
Registration of books to be done in single process			

**Item No. 10: Web Camera**

Item Minimum Specifications	Proposed Make/Model No. & Country of origin	Matched/ Not Matched	Deviation, If any
CMOS VGA sensor technology			
Motion Video: 0.30 megapixel (640 x 480 pixels) or better			
60° diagonal view			
USB 2.0 compatible			
Automatic image adjustment with manual overwrite			

<b>Item No. 11 : Pen Tablet</b>			
Item Minimum Specifications	Proposed Make/Model No. & Country of origin	Matched/ Not Matched	Deviation, If any
Working Area : 4 x 3 inches			
Technology : Electromagnetic Technology			
Pressure Levels : 512 levels			
Resolution : 2200 LPI			
Accuracy : 0.01 inch (0.25 mm)			
Report Rate : 100 RPS			
Interface : USB 2.0			
Digital Pen : Cordless digital stylus pen with a pen tip and two barrel buttons			

## Annexure-II

### FINANCIAL BID

Sr. No.	ITEM	Quantity (In Nos.)	Unit Price with 5 Year Warranty (In Rs. Without tax)	Total Price with 5 Year Warranty (In Rs. Without tax)	Rate of VAT / Service Tax (%)
A	B	C	D	E=C*D	F
1	Library Staff Station	1			
2	Self Check Out/ Check In Kiosk Station	2			
3	Two EAS Pedestals Library Security Gate	2			
4	Handheld Portable Reader	1			
5	Self Adhesive RFID Tags	25,000			
6	Institution Labels	25,000			
7	Smart Cards	500			
8	Integration Module / Middleware	1			
9	Web Camera	2			
10	Pen Tablet	1			
11	RFID Tagging Job Work	15,000			
12	Integration with KOHA charges, if any	1			
13	Installation & Commissioning charges, if any	1			
<b>GRAND TOTAL</b>					

**Note:**

- ❑ L1 will be the lowest sum total of rates of all line items with tax with 5 year warranty.
- ❑ If required in future, for item no. 5 (Self Adhesive RFID Tags), item no. 6 (Institution Labels) & item no. 7 (Smart Cards); the Successful bidder has to supply the additional quantity on the same rates to purchasing department during the period of warranty of 5 years.

## Annexure- III

### Performa of Compliance letter/Authenticity of Information Provided

Date:

To,  
DG  
NRLC  
E/3 Aliganj, Lucknow

**Sub: Compliance with the Tender Terms and Conditions, Specifications and Eligibility Criteria**

**Ref: Tender no. \_\_\_\_\_.**

Dear Sir,

With reference to above referred tender, I, undersigned <<Name of Signatory>>, in the capacity of <<Designation of Signatory>>, is authorized to give the undertaking on behalf of <<Name of the bidder>>.

We wish to inform you that we have read and understood the technical specification and total requirement of the above mentioned bid submitted by us on **DD.MM.YYYY**.

We hereby confirm that all our quoted items meet or exceed the requirement and are absolutely compliant with specifications mentioned in the bid document.

We also explicitly understand that all quoted items meet technical specification of the bid & that such technical specification overrides the brochures/standard literature if the same contradicts or is absent in brochures.

In case of breach of any tender terms and conditions or deviation from bid specification other than already specified as mentioned above, the decision of NRLC Tender Committee for disqualification will be accepted by us.

The Information provided in our submitted bid is correct. In case any information provided by us are found to be false or incorrect, you have right to reject our bid at any stage including forfeiture of our EMD/ PBG/cancel the award of contract. In this event, NRLC reserves the right to take legal action on us.

Thanking you,

Dated this \_\_\_\_\_ day of \_\_\_\_\_ 2017

Signature: \_\_\_\_\_

(in the Capacity of) : \_\_\_\_\_

Duly authorized to sign bid for and on behalf of

\_\_\_\_\_

**Note: This form should be signed by authorized signatory of bidder**

## **Annexure- IV**

### **Bidders Details**

<b>S.NO</b>	<b>Required Details</b>	
1	Name of the Bidder/Party/Agency	
2	Address of the bidder	
3	Contact no	
4	Fax no	
5	Mobile No	
6	Email	
7	Name of the Authorised signatory	
8	Sales Tax/CST No.	
9	Income Tax No./PAN	
10	Yearly Turnover for the last three years	
11	Year of Establishment	
12	Name and address of Bank	
13	List of Client libraries in India	

Name and signature of Bidder

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## Annexure- V

### CHECKLIST

1.	GST No./Sales Tax No.	
2.	Income Tax No./PAN	
3.	Copies of Income Tax Clearance Certificate	
4.	Average Annual Turnover for the last three years (ITR)	
5.	Certificate of authorization from the principal manufacturing company or self declaration in case OEM.	
6.	Name and address of Bank	
7.	Experience Certificates as per eligibility criteria	
8.	Bid Processing fee (Rs. 1000/- ) in favour of "DDO from any Nationalized Bank payable at Lucknow	
9.	EMD (Rs. 20, 000) in favour of DDO Payable at Lucknow	
10.	Documentary proof of ISO9001:2000 certified company	
12.	Affidavit that the firm has not been black listed in the past by any University/ Institution	
13.	Affidavit that the firm has no vigilance case CBI/FEMA case pending against him/supplier (Principal)	
14.	Affidavit that the firm is not supplying the same item at the lower rate quoted in the tender to any Govt. organization or any other Institute.	
15.	Copy of product literature, for which the prices have been quoted.	