Management Development Institute Murshidabad

NOTICE INVITING TENDER (NIT)

Ref: No. MDIM/Library/RFID/2021/140   **Dated: 02-11-2021**

Management Development Institute Murshidabad (MDIM) invites tenders under two bids system from reputed vendors for supply & implementation of Radio Frequency Identification (RFID) system for Library at Management Development Institute Murshidabad, West Bengal. The vendor shall be selected on the basis of Quality-cum-cost based selection system (QCBS) as defined in the tender documents:

1.	Tender Ref. No.	MDIM/Library/RFID/2021/140 dated 2nd November, 2021.
2.	Scope of work	Supply & implementation of Radio Frequency Identification (RFID) system for Library at Management Development Institute Murshidabad, West Bengal. Details given at Annexure-B
3.	Completion Time	45 days
4.	Tender Fee	Rs. 1,000/- (in the form of DD/Pay order in favour of MDI Murshidabad and payable at Omarpur / Jangipur / Raghunathganj)
5.	Bid Security (EMD)	Rs. 20,000/- (in the form of DD/Pay order in favour of MDI Murshidabad and payable at Omarpur / Jangipur / Raghunathganj)
6.	Performance Security	5% of the work order value (returnable after commissioning of the project)
7.	Security Deposit	5% of the work order value (returnable after warranty period)
8.	Last date, time and place of submission of tender	23-11-2021 (by 2:00 p.m.) Registrar, MDI Murshidabad, Vill- Kullori, (inside Jangipur Bengal Mega Food Park), PO – Uttar ramna, PS- Raghunathganj, Dist- Murshidabad, W.B. Pin 742235
9.	Mode of submission of tender	Courier services / Speed post /Hand delivery
11.	Opening of tenders	26-11-2021 (at 3:00 p.m.)
12.	Presentation by the bidder (max. 15 min)	26-11-2021 (after opening of technical bids)
13.	Date of opening of Financial Bid	Will be intimated later

This tender documents can be downloaded from the website https://www.mdim.ac.in/tender and Corrigendum, if any, would be uploaded only on the above website.

This tender document has the following components:

- Terms & Conditions: -- Annexure-A (Page: 3 to 6)
- Scope of work: - Annexure – B (Page 7 to 11)
- Selection criteria – Annexure- C (Page 12 to 13)
- Check list for Commercial details: Annexure – D (Page 14 to 15)
- Check list for technical details: Annexure-E (Page 16 to 20)
- Financial Bid Format: Annexure – F (Page 21 to 22)

Please submit Commercial details of your agency, technical details of the items quoted, Tender Fee & EMD in one envelope marked as "Technical Bid" and price bids in one envelope marked as "Financial Bid". Put these two envelopes in a big envelope marked as "Supply & implementation of Radio Frequency Identification (RFID) system for Library at Management Development Institute Murshidabad, West Bengal"

The sealed tenders may be submitted at the Office of Registrar, MDI Murshidabad, Inside Jangipur Bengal Mega Food Park, NH-34, Kulori, P.O.- Uttar ramona, PS – Raghunathganj, Dist-Murshidabad, West Bengal – 742235 on or before last date of submission of tender.

MDIM reserves the right to accept or reject any or all tenders without assigning any reason thereof.

(Registrar) 2/11/2021
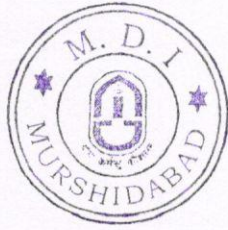
TERMS & CONDITIONS

1) Technical and Financial bid should be submitted on company letter head duly signed by the authorized person.

2) The financial bid shall be valid for at least 90 days. Institute will not entertain any request in respect of escalation of price due to any reason whatsoever during this period.

3) Financial Bids of only those firms will be opened, whose Technical Bids are found compliant/ suitable after technical evaluation done by the MDIM.

4) The vendors are required to make presentation (Max time-15 Minutes) regarding their proposed product and solution as part of Technical evaluation at MDI Murshidabad Campus on the day and time as mentioned in Page-1.

5) The items will be supplied and installed at MDIM Campus, Raghunathganj, nothing extra shall be paid towards the cartage, packing, forwarding, Octroi etc.

6) In case any item is found to be defective /substandard, the same shall be rejected. MDIM shall not make any payment for such items and shall be removed from the site immediately.

7) MDIM reserve the right to accept or reject any or all the bids without assigning any reason whatsoever.

8) MDIM reserves the right to terminate the contract by giving seven days' notice in writing without assigning any reason whatsoever.

9) Sub contract of Project is strictly not allowed, if found that sub-contracting have been done then the contract will be summarily terminated and no payment will be made to the vendor.

10) Vendor may inspect the site and contact: Dr.Mahendra Kr Sahu, Phone: 9437598807 on any working day between (10:00 AM to 5:00 PM).

11) Project should be completed and whole system should be commenced within 45 days from the date of issue of work order.

12) In case the Project is not completed within the due date then penalty shall be imposed @ Rs.1,000/- for each day subject to a maximum of Rs.25, 000/- (Rs. Twenty Five Thousand only) provided the vendor is solely responsible for the delay.

13) If contract is awarded and work is not commenced by the vendor within 15 days of receiving of work order, and then EMD amount will be forfeited.

14) **Termination for Default**

The institute may, without prejudice to any other remedy, for breach of work order/contract in whole or part, terminate the contract.
The contract will be terminated if

- Vendor fails to provide any or all of the services for which it has been recognized within the period(s) specified in the NIT/Work Order, or within any extension period thereof if granted by the MDIM pursuant to conditions of the work order. OR

- In the judgment of the MDIM, it is engaged in corrupt or fraudulent practices in competing for or in executing the work order or It fails to follow instructions, guidelines, and submission of reports, lists, and data.

- If a bid is not substantially responsive, it will be rejected by MDIM and may not subsequently be made responsive by the service provider by correction of the nonconformity. MDIM's determination of bid responsiveness will be based on the contents of bid itself and any written clarifications sought by MDIM in writing the response to which shall also be in writing and no change in rates shall be permitted in response.

15) Offers shall be deemed to be under consideration immediately after they are opened and until such time the official intimation of award of work order is made by MDIM to the service provider. While the offers are under such consideration, service provider and or their representatives other

interested parties are advised to refrain from contacting MDIM by any means. If necessary, MDIM will obtain clarifications on the offers by requesting for such information from any or all the service providers, in writing, as may be considered necessary. Bidders will not be permitted to change the substance of their offers after the offers have been opened.

16) Bidders are invited to quote their rates on the enclosed format provided in accordance with the above instructions and all the conditions of Tender.

17) Any failure on the part of service provider to observe the prescribed procedure and any attempt to canvass for the work shall render the bidder's bids liable for rejection.

18) **Queries/Clarifications:**
For any other query relating to technical specifications, the bidders may submit in the form of email to mahendra.s@mdim.ac.in latest by 9th November, 2021 till 14.00 Hrs after which no query shall be taken into account. Any corrigendum, if required, will be uploaded on MDIM Website.

19) MDIM reserves the right to allot/cancel the tender invited as it may consider/deem fit and proper and to reject the tenders/applications without assigning any reasons at any stage.

20) **Tender Evaluation:** During tender evaluation, MDIM may, at its discretion, ask the bidder for any clarification of its tender.
   - The request for clarification and response shall be through email, and no change in the price or substance of the tender shall be permitted in response.
   - The tenders received will be evaluated by MDIM to ascertain the technical suitability and lowest acceptable cost in the interest of MDIM, as specified in the specification and tender documents.
   - MDIM reserves the right to reject any / all bids including the lowest bid or withdraw the tender at any stage without assigning any reasons. Nothing contained herein shall confer right upon a service provider or any obligation upon MDIM.

21) **AMENDMENT of Tender Document:**
At any time before the scheduled submission of bid, MDIM may, for any reasons, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the Tender Document by issuing addendum. The amendment in the form of Addendum uploaded on the MDIM website will be binding on the bidders.

22) MDIM may, at its discretion, extend the date for submission and/or opening of the bid. In order to allow prospective bidder, MDIM may, at its discretion shall, extend the deadline for the submission of bids for a reasonable time to take the amendment into account in preparing their bid.

23) **ACCEPTANCE AND WITHDRAWAL:**
The final acceptance of the tender would entirely vest with MDIM, who reserves the right to accept or reject any tender, without assigning any reason whatsoever. There is no obligation on the part of MDIM to communicate in any way with rejected bidders. After acceptance of the tender by MDIM, the bidder shall have no right to withdraw his tender or claim higher price.

24) Bids received with incomplete information are liable for rejection.

25) Any Bid received by MDIM after the deadline for submission of bids will be summarily rejected.

26) **Any dispute/ difference arising out or relating to this tender:** Matters regarding any dispute shall be referred for arbitration to any Officer appointed by the Director of MDIM, whose decision shall be binding and final.

27) Any legal disputes will be subject to person local court of Murshidabad District.

28) **Warranty:** Standard free onsite warranty of 1 year and post expiry of standard onsite warranty, another 2 years extended warranty & support is required to be provided

29) **Payment Terms:**
   - 25% of work order value within 1 month of satisfactory delivery of items at MDIM
   - 70% of work order value after commissioning of all the items and systems along with handover of warranty documents, other related documentation and training.
   - Remaining 5% will be retained as security deposit for a period of three years and will be returned after successful completion of 3 years warranty (1 standard + 2 extended)

30) **Payment Terms for 2 Years Onsite extended warranty & Support:** To be paid in 4 installments half yearly post expiry of standard warranty of 1 year.

31) **Eligibility Criteria for the Bidder:**

   - The Bidder should be an Authorized partner/dealer having a direct purchase and support agreement with the OEM of RFID technology. Relevant document is to be submitted.
   - The bidder should have an experience of installing such RFID system reputed educational institutions of Govt / Private. The work order/ purchase order copies for the 3 years (2017-18, 2018-19 & 2019-20), should be furnished along with completion certificates (Minimum 5 work orders of value > Rs. 5 lakhs each is essential).
   - The bidder should have annual average turnover, for three financial years (2017-18, 2018-19 & 2019-20) of at least 3 crores. Relevant document is to be submitted.
   - The bidder has not been blacklisted by any company/organization. A self declaration in this effect to be submitted in company letter head.

32) **Earnest Money Deposit (EMD)**

   - The bid must be accompanied by Earnest Money Deposit (EMD) of Rs. 20,000. Tenders without earnest money will not be entertained.
   - The EMD shall be in the form of DD/Pay order from any of the Commercial Banks drawn in favour of "MDI Murshidabad" and payable at Omarpur /Raghunathganj /Jangipur, District Murshidabad, West Bengal.
   - The EMD should be kept inside the envelope named "Technical Bid"
   - Earnest Money is liable to be forfeited and bid is liable to be rejected, if the bidder withdraws or amends /impairs or derogates from the tender in any respect within the period of validity of the tender.
   - The earnest money of all the unsuccessful bidders will be returned without any interest to them at the earliest after issue of the purchase order.
   - The Earnest Money of successful bidder shall be returned on receipt of Performance Security.

33) **Performance Security**

   - The successful bidder shall submit a Performance Security @ 5% of the value of work order within 2 weeks of the placement of work order.

- The Performance Security shall be submitted in the form of DD/Pay Order, from any of the Commercial Banks, drawn in favour of "MDI Murshidabad" payable at Omarpur /Raghunathganj /Jangipur, District Murshidabad, West Bengal.
- The Performance Security will be returned without interest within one week from the successful commissioning of the project.

34) **Security Deposit**:

- The Security Deposit @ 5% of the work order value shall be in the form of DD/Pay Order/BG, from any of the Commercial Banks, drawn in favour of "MDI Murshidabad" payable at Omarpur /Raghunathganj /Jangipur, District Murshidabad, West Bengal.
- The Security Deposit shall be valid for a period of 30 days beyond the date of completion of all contractual obligations of the supplier including warranty obligations (1+2 years) and will be released only after completion of all contractual obligations successfully.
- No interest will be payable by the MDIM on the Security deposit.
- In case firm/supplier fails to deliver the items within stipulated period or fails to provide satisfactory after sale service within the warranty period, the Security Deposit submitted by the firm is liable to be forfeited.

35) **Validity of quoted price**: All prices quoted shall remain valid for a min. period of 60 days from the last date of submission of bids.

36) **Purchaser's Right:** MDIM (purchaser) reserves the right to reject lowest quotation or all the quotations or accept any quotation or part thereof without assigning any reason.
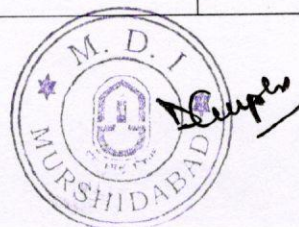
SCOPE OF WORK

MDIM intends to set up a state-of-the-art, Radio frequency identification(RFID) based system for Library in Management Development Institute Murshidabad Campus.

Specific Scope of Work on SITC Basis would include the following:

- Radio Frequency Identification (RFID) System to be integrated with existing KOHA software

- Radio frequency identification technology enables the tracking and monitoring of physical items by attaching an RFID tag or transponder to an item in this case books.

- Each tag consists of an internal antenna and a computer chip that stores data. When the tag is scanned or interrogated by a reading device equipped with its own antenna, the tag communicates its data wirelessly via radio waves to the reader.

- RFID cards to be printed with patron data and MDIM logo.

- The tags to be employed in library applications are to be high frequency (HF) passive tags that operate at 13.56 MHz and can be read at distances from eight inches to two meters.

- Staff station will be used for issue return of library materials, entry of new material to the LMS etc.

- RFID enabled self-check in-check out system is an independent touch screen based kiosk for borrowers to perform issue-return functions on their own.

- Customized application to interface data from various RFID hardware

- Security gate will be placed at entry and exit of the library to keep check on unauthorized books going outside

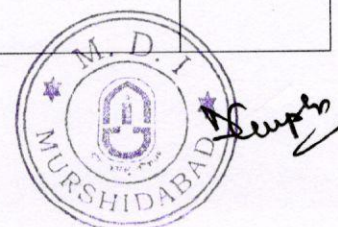- Attach technical data sheet of all the products quoted.

Technical Specifications of Radio Frequency Identification (RFID) System to be integrated with existing KOHA software and other deliverables:

Item No. 1 Library Staff Station Minimum Specifications	Qty.
Read/Write/Anti-theft programming should be done in one single operation	
Read/Write distance of up to 25 cm and programming time of 1 second	1
Should be fully ISO/IEC 14443A, 15693 and ISO 18000:3 compliant	

The programming station should interface with the Library Management Software using NCIP V2.0/SIP2 protocol

Integrated with reader for patron ID Card based ISO/IEC 14443A Mifare Plus to read for circulation

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

NCIP V2.0/SIP2 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

Specifications

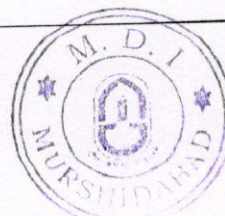| Parameter	Technical Specs
Operating Frequency	13.56 MHz
Power Supply	5V to 12V
Power Consumption	1.2W minimum
Transmitting Power	1W minimum
Read Range	Up to 25 cm
Antenna	Internal
Communication Interface	USB/RS232/Ethernet
Supported Transponders	ISO 15693, ISO 14443A and ISO 18000:3
Indicators	LED / Buzzer for power, read verification etc.
Operating Temperature	-10°C to +70°C
Housing Material	ABS or Similar

Item No. 2: EAS Pedestals Library Security Gate Minimum Specifications	Qty.
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. It should also have multi line infrared motion sensors to detect library foot falls and in-out numbers.	1

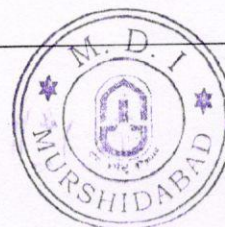| Specifications	
Parameter	**Technical Specs**
Operating Frequency	13.56 MHz
Power Supply	AC 230V / 50Hz
Power consumption	30W maximum
Transmitting Power	0.5W to 6W variable
Read Range	Up to 1 m with pair of gates
Communication Interface	RS232 / Ethernet
Supported Transponders	ISO 15693-3, I Code
Operating Temperature	-10°C to +70°C
Communication Parameters	Baud Rate: 115200 Kbps
Weight	25 Kg approximately
Housing Material	ABS or similar

Item 3: Self Check-out Check-in Kiosk Station Minimum Specifications	Qty.
RFID Reader and Antenna with multiple Read/Write facility	
Kiosk should suit the library decor	
High Speed Thermal Slip Printer	
17" or higher LCD/LED Touch Screen Monitor using Capacitive Technology	
Branded Small Form Factor CPU	
Multi-protocol firmware ISO/IEC 14443A. 15693 and ISO 18000:3 compliant	
Communication interface — Ethernet	
The Self Checkout station client software should interface with the ILMS Software giving following features: ∘ Check out / Renewal ∘ Transaction Status ∘ Transaction Printout	1
Provision for display of reservations done by a user along with sequence and date of collection,	
Provision of enquiry of checkouts against a user and its due date.	
Provision for enquiry of fine against a user,	

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

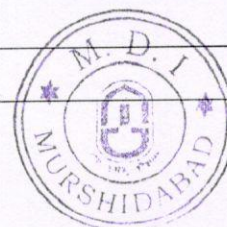|	
Antenna Size	300 X 300 mm
Communication Interface	Ethernet
Supported Transponders	ISO 15693, ISO 14443A and ISO 18000:3
Operating Temperature	-10°C to +70°C
Weight	25 Kg approximately
Packaging Material	Wood
Display	17" or higher TFT capacitive touch screen

Item No. 4 Self Adhesive RFID Tags for books Minimum Specifications	Qty.
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 50mm 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 50X50 mm ± 0 5mm • Transponder die-cut size 50 x 50 mm 0.2 mm • Thickness of the IC 150 micrometer ± 10% • Overall thickness of transponder package (excluding IC and siliconized paper) 200 micro meter ± 10% • Thickness of the siliconized wafer 56 micro meter	15000
Electrical characteristics • Integrated Circuit (IC) Philips i-Code-SLI X. • ICS protocol /anti-collision ISO 15693/18000-3 • Operating frequency 13.56 MHz (HF Tag) • Unloaded resonance frequency 14.15 MHz ±0.30 MHz • Memory 2048 bits R/W EEPROM	
General characteristics of transponder • Operating temperature (electronics parts): -20'C to *85"C • ESD voltage immunity +12 kV peak. HBM • Bending diameter (D) > 50 mm. tension less than 10 N • Static pressure (P) < 10 MPa (10 N/mm2)	

Item No. 5 Integration Module /Middleware Features Minimum Specifications	Qty.
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/SIP2 compliance	
Retagging option for re-registration of books & patrons	1
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	

Item No. 6 Smart Cards Minimum Specifications	Qty.
ISO 15693/18000-3 complied tags with operating frequency of 13.56MHZ	
1024 bits memory storage and card size CR80	
Pre-printed (with patron data and Institute logo) as per MDI Murshidabad approved design	
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	350
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	

SELECTION PROCESS

Procedure for Evaluation of Technical Bid:

- In the first phase, the MDIM Committee will first evaluate the Information/ documents provided at Annexure-E. The bids found in conformity with MDIM's requirement will be accepted for further evaluation.

- MDIM decision will be final for the evaluation of Technical Bids.

- The Firm/Agency will be selected on the basis of QCBS (Quality and Cost Based Selection) as recommended by the MDIM Committee. The evaluation will be done on the basis of the highest combined score obtained in the technical bid evaluation and the figures quoted in the financial bid.

Evaluation Process

The Technical bid shall be evaluated as below for 100 marks:

Technical Score (Ts): (Total marks: 100)

S.No.	Description	Details	Details	Details
1.	The bidder should have an experience of installing such RFID system reputed educational institutions of Govt / Private. The work order/ purchase order copies for the 3 years (2017-18, 2018-19 & 2019-20), should be furnished along with completion certificates (The Minimum value of work order/purchase order should be > Rs. 5 lakhs each). Max. Points: 30	5 -10 Projects 10 Points	11-20 Projects 20 Points	>20 Projects 30 Points
2.	Number of years in similar business (Submit documentary evidence) Maximum Points:20.	0-5 Years 10 Points	Above 5 years & below 10 years 15 Points	10 Years or more 20 Points
4.	Average annual turnover in 3(three) Financial Years (2017-18, 2018-19 & 2019-20). Submit relevant documents. Maximum Points:20	3 – 5 Cr. 10 Points	Above 5 Cr. below 8 Cr. 15 Points	8 Cr. or more 20 Points
5.	Quality & suitability of the product as per the requirement of MDM. It will be assessed based on the information provided at Annexure-E/Catalogue /Pamphlets / Specifications /Photographs etc. of quoted product and the power point presentation on the quoted product given by the bidder. Maximum Points: 30			
6.	Maximum Total Points : 100			

Technical score (Ts) will be calculated as (1)+(2)+(3)+(4)+(5).
Those, who will get Technical score 70 & above will be eligible for further evaluation i.e. Financial evaluation.
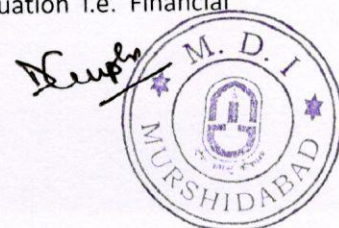
Financial Score (Fs): (Total Marks: 100)

The bidder who has quoted the lowest price will be assigned a score of 100 in the financial bid. The other bidders will be allotted score relative to the score of bidder with the lowest quote as below:

$$F_s = 100 * F_l / F$$

Where:

F_s = The financial score of the Financial Proposal being evaluated

F_l = The price of lowest priced Financial Proposal

F = The quoted price of Financial Proposal under consideration

Combined evaluation

The score of technical proposal would be given 60% weightage, and the financial proposal would be given 40% weightage. The weighted combined score of the Technical score (Ts), and Financial score (Fs) shall be used to rank the bidders on the basis of formula given as below:

Combined Score = 60% * Ts + 40% * Fs

The highest scoring bidder will be the successful bidder subject to fulfilment of other requirements.
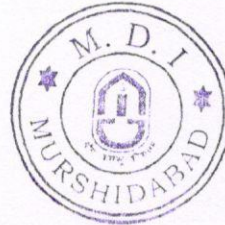
Check list for Commercial details
(To be given in company letter head)

Sl. No.	Description	Company Response				Remarks
1.	Submit Profile of your firm/company	Yes ☐ / No ☐				
	Year of establishment					
	Number of employees					
	Annual Turnover for the 3 Financial Years i.e. 2017-18, 2018-19 & 2019-20 Attach Tax Audit Certificate for these FY.	Year	2017-18	2018-19	2019-20	
		Turnover				
2	Names & addresses of clients, with the contact details of the reference personnel where you have completed RFID system for Library (work order value >Rs. 5 lakhs) in 2017-18, 2018-19 & 2019-20. Please provide photo copies of Purchase Orders and completion certificates in support of the above	Yes ☐ / No ☐ (May be given in a separate sheet as per the proforma given at the bottom)				
3	Name of OEM for RFID items for which Quote is submitted. Whether Authorized partner of OEM . (Attached valid OEM Certificate)	_____ Yes☐ / No ☐				
4	Whether valid ISO/SIP2 / NISO Protocol certificates are attached	Yes☐ / No☐				
5	Contact details of the authorized person of the company. 1. Name : 2. Office Tel No.: 3. Mobile no.: 4. Official E-mail id:	Yes ☐ / No☐				
6	Whether declaration on company's letterhead that the Bidder has not been blacklisted has submitted.	Yes ☐ / No☐				
7	Whether Tender Fee & EMD has been submitted.	Yes ☐ / No ☐ Tender Fee: Amount:.......... DD No........... Date of issue: .... Issuing bank........... EMD: Amount:.......... DD No.......... Date of				
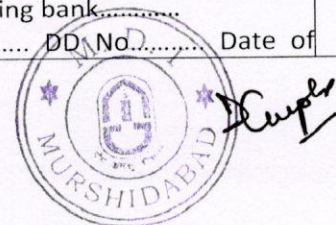
		issue: .... Issuing bank............	
8	Whether products quoted with 3-years onsite warranty (1 year standard free one + another 2 years extended one).	Yes ☐ / No ☐	
9.	Wheather Technical Presentation will be done in MDI Murshidabad campus on stipulated date (Online / Physical)	Yes ☐ / No ☐	

Details of Clients where implimented RFID system in library were implemented (Refer Sl. No. 2)

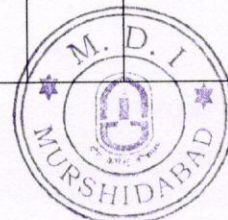| S.No.	Client Name	Value of the Project	No of Books	Client Contact No.	Client Email ID	Completion Certificate Attached
						Yes ☐ / No ☐
						Yes ☐ / No ☐
						Yes ☐ / No ☐
						Yes ☐ / No ☐
						Yes ☐ / No ☐
						Yes ☐ / No ☐
						Yes ☐ / No ☐

(Name & signature of the bidder)

Check list for Technical details
(To be given in company letter head)

Catalogue /Pamphlets / Specifications /Photographs etc. of quoted product should be attached
Technical specifications of RFID system to be integrated with existing KOHA software
Technical Compliance Report for Radio Frequency Identification (RFID) System

Item No. 1: Library Staff Station			
Item Minimum Specifications	**Qty.**	**Matched/ Not Matched**	**Remarks (If any)**
Read/Write/Anti-theft programming should be done in one single operation			
Read/Write distance of Up to 25 cm and programming time of 1 second			
Should be fully ISO/IEC 14443A, 15693 and ISO 18000:3 compliant			
The programming station should interface with the Library Management Software using NCIP V2.0/SIP2 protocol			
Integrated with reader for patron ID Card based ISO/IEC 14443A Mifare Plus to read for circulation			
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			
NCIP V2.0/SIP2 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	1		
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		

			Matched/ Not Matched	Deviation, If any
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: Two EAS Pedestals Library Security Gate

Item Minimum Specifications		Qty.	Matched/ Not Matched	Deviation, If any
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. It should also have multi line infrared motion sensors to detect library foot falls and in-out numbers.				
Specifications				
Parameter	**Technical Specs**			
Operating Frequency	13.56 MHz	1		
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			

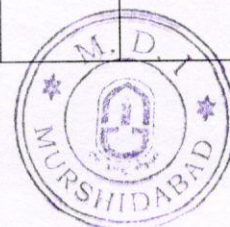### Item No. 3: Self Check-In Check -Out Kiosk Station

Item Minimum Specifications	Qty.	Matched/ Not Matched	Deviation, If any
RFID Reader and Antenna with multiple Read/Write facility	1		
Kiosk should suit the library decor			
High Speed Thermal Slip Printer			

17" or higher LCD/LED Touch Screen Monitor using Capacitive Technology			
Branded Small Form Factor CPU			
Multi-protocol firmware ISO/IEC 14443A. 15693 and ISO 18000:3 compliant			
Communication interface — Ethernet			
The Self Checkout station client software should interface with the ILMS Software giving following features: ◦ Check out /Check in / Renewal ◦ Transaction Status ◦ Transaction Printout			
Provision for display of reservations done by a user along with sequence and date of collection,			
Provision of enquiry of checkouts against a user and its due date.			
Provision for enquiry of fine against a user,			

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. 4: Self Adhesive RFID Tags (for Book)			
Item Minimum Specifications	**Qty.**	**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 ◦ 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	15000		
Tag size should be 50mm 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 50X50 mm ± 0 5mm • Transponder die-cut size 50 x 50 mm 0.2 mm • Thickness of the IC 150 micrometer ± 10% • Overall thickness of transponder package (excluding IC and siliconized paper) 200 micro meter ± 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 (HF Tag) • Unloaded resonance frequency 14.15 MHz ±0.30 MHz • Memory 2048 bits R/W EEPROM			
General characteristics of transponder • Operating temperature (electronics parts): -20'C to *85"C • ESD voltage immunity +12 kV peak. HBM • Bending diameter (D) > 50 mm. tension less than 10 N • Static pressure (P) < 10 MPa (10 N/mm2)			

Item No. 5: Integration Module /Middleware Features

Item Minimum Specifications	Qty.	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	1		
Send SMS & Email for circulations and registration transaction which can be selected for specific users.			
NCIP V2.0/SIP2 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			

| Item No. 6: Smart Cards (Optional)			
Item Minimum Specifications	**Qty.**	**Matched/ Not Matched**	**Deviation , If any**
ISO 15693/18000-3 complied tags with operating frequency of 13.56MHZ	350		
1024 bits memory storage and card size CR80			
Pre-printed (with patron data and Institute logo) as per MDI Murshidabad approved design			
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			

(Name & signature of the bidder)

FINANCIAL BID FORMAT

Financial bid is required to be submitted in the following format in bidder's official letter head.

Sr. No.	Specifications of RFID	Required Quantity	Unit price in Rs. (Excluding GST)	GST % and Amount in Rs.	Total amount in Rs. (Including GST)
1.	RFID Staff Station with specifications as mentioned in Annex-II.	1			
2.	**Two EAS Pedestals Library Security Gate with specifications as mentioned in Annex-II.**	1			
3.	Self-Check-In Check-Out Kiosk Station with specifications as mentioned in Annex-II.	1			
4.	Self-Adhesive RFID Tags (for Book) with specifications as mentioned in Annex-II.	1			
5.	Integration Module /Middleware Features with specifications as mentioned in Annex-II. Complete integration of KOHA software with RFID system using SIP2/NCIP protocol.	1			
6.	Smart Cards with specifications as mentioned in Annex-II.	350			
7.	Job Work Tagging Books and other existing material in library and enabling existing Patrons' smart cards	15000			
8.	Submitting inventory report to library	On lumsum			
9.	Training Onsite training of all the equipment's/systems associated with RFID system	On lumsum			
10	Complete manual / guide for operating RFID equipment's with KOHA software	On lumsum			
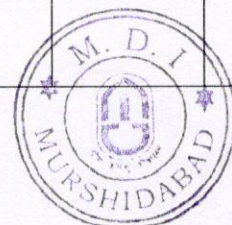
11.	2(Two) years extended onsite warranty and support cost	On lumsum			
12.	Total cost of the project Incl. of GST (1 to 11) in figure				
13.	Total cost of the project Incl. of GST (1 to 11) in words				

Buy back price

Sl.No	Particular	Quantity	Reserve Price	Buyback price quoted(B) with Applicable GST (If any)
1	STA IRO507E UHF Integrated Reader	02	21470.00 for 2 Nos.	

Gross project cost

Particular	Amount in Rs. Incl of GST
Gross cost of the project inclusive of GST less buyback price quoted with applicable GST (If any)	In figure: In word:

Note:

- If there is mismatch of amount in number and word then MDIM will only consider that one which will be less cost among the two.
- Delivery Mode : Delivery at MDI Murshidabad, Campus only.
- Total bid price should be inclusive of all taxes and levies, transport, loading, unloading etc.
- Delivery Period: ....   days
- Installation Period:.....   days
- Quotation Validity Date: - 60 days from the date Last of submission of bids

Sign of the authorized person:-
Name:-
Firm's Name:

Place:
Date: