

**University Library,  
MarathwadaKrishiVidyapeeth,  
Parbhani – 431 402 (Maharashtra State), India  
TENDER NOTICE**

University Library, MarathwadaKrishiVidyapeeth, Parbhani intends to purchase Radio Frequency Identification (RFID) system under “ Library Strengthening ICAR Grant 2012-13” to develop Information Communication Technology Tools (ICT) with surveillance system and different access control, restricted zone in the University Library. The tender includes supply, installation and training of University Library Management Software integrated with Radio Frequency Identification (RFID) system. The details of RFID system along with specifications, terms and conditions of purchase are available in the Tender form. The Blank Tender will be available from 18-03-2013 in the office of the University library, MKV.,Parbhani during office hours by paying Rs 5000/- in the form of D.D. (only nationalized bank) drawn in favour of **Comptroller, MKV., Parbhani**. Also forms are available on University website and additional Rs.500/- will be charged for downloaded application form from University website <http://mkv2.mah.nic.in>, [www.mkv.ac.in](http://www.mkv.ac.in) The last date of submission of filled tender form is 25-03-2013 upto 15.00hrs.

The orders will be given subject to availability of funds.

Place :Parbhani

Date : 18-03-2013

**Chairman,  
Library Strengthening ICAR Grant Utilization Committee 2012-13**

**UNIVERSITY LIBRARY  
MARATHWADA KRISHI VIDYAPEETH,  
PARBHANI – 431 402(MS)**



**TENDER FORM**

**Supply, installation and training of University Library Management software integrated with Radio Frequency Identification (RFID) system**

**Date of sale of Tender:18-03-2013**

**Last Date of Submission:25-03-2013**

**Date of opening:25-03-2013**

**Corresponding Officer:**

**Chairman,  
Library Strengthening ICAR Grant Utilization Committee 2012-13  
University Library,  
MarathwadaKrishiVidyapeeth,  
Parbhani- 431 402 ( Maharashtra State)  
Ph.02452 232471**

**UNIVERSITY LIBRARY,  
MARATHWADA KRISHI VIDYAPEETH,  
PARBHANI-431 402 (Maharashtra State) , India**

No.UL/CIS/Tender/ /13

Dt.

Tender from No.	
FDR/CDR/TDR	
Amount	<b>Rs.5000/-</b>

To,  
M/s

.....  
.....

.Sub: Blank Tender Form  
Ref: Your letter No. Dt.

Sir,

This office is in receipt of Rs.\_\_\_\_\_ by Demand Draft/Banker's cheque towards the blank tender form for Radio Frequency Identification (RFID) system to develop Information Communication Technology Tools (ICT) with surveillance system and different access control, restricted zone in the University Library. MKV.,Parbhani. I am enclosing herewith the set of tender form as desired by you.

The earnest money deposit prescribed for the above mentioned tender is @ 1 % of the value of the equipment's/ instruments quoted by the tenderer.

You are requested to go through the terms and conditions of the tender before filling the tender form. The following points may be noted while submitting the tender form.

The EMD as prescribed above should be submitted in the shape of TDR/CDR/FDR of Nationalized banks only drawn in favour of **Comptroller, MKV., Parbhani** and should be enclosed with the tender form.

The tender form should be submitted in the two **envelops A and B** both the envelopes should be super scribed as Envelope A and B.

**Envelope-A**

EMD for Rs. ----- inshape of TDR/CDR/FDR of Nationalized Bank only drawn in favour of **Comptroller, MKU, Parbhani as prescribed.**

- EMD exemption will be given if the valid certificate is enclosed
- Copy of valid VAT/ certificate.
- Copy of firm registration certificate
- Copy of Partnership deed if any along with the general power of attorney

**Envelope-B**

Envelope-B containing

- Rates of the RFID system quoted on the tender form
- Undertaking in the prescribed form for supply of RFID System etc.

Both the envelopes are to be enclosed in a large envelope addressed to the **Chairman, Library Strengthening ICAR Grant Utilization Committee 2012-13**, University Library, MKV.,Parbhani and submitted on or before 25-03-2013 up to 15.00 hrs.

**Chairman,  
Library Strengthening ICAR Grant Utilization Committee 2012-13**

Place:

Date:

To,  
**Chairman,**  
**Library Strengthening ICAR Grant Utilization Committee 2012-13**  
**University Library,**  
**MarathwadaKrishiVidyapeeth,**  
**Parbhani- 431 402 ( Maharashtra State)**  
**Ph.02452 232471**

**Sub: Tender for Supply, installation and training of University Library Management software integrated with Radio Frequency Identification (RFID) system.**

Sir,

I am submitting herewith Tender form duly filled in for the supply of RFID system for University Library, MKV, Parbhani. I am enclosing herewith the following documents with the tender form.

**Envelope-A Containing:**

- EMD for Rs. ----- in shape of DD/Banker cheque/TDR/CDR/FDR of Nationalized Bank only drawn in favour of **Comptroller, MKU, Parbhani as prescribed.**
- EMD exemption will be given if the valid certificate is enclosed
- Copy of valid VAT/ certificate.
- Copy of firm registration certificate
- Copy of Partnership deed if any along with the general power of attorney
- Copy of valid Income Tax certificate
- Copy of authority dealership certificate.
- Copy of valid Sale Tax Registration No.
- Copy of CST/BST Registration No

**Envelope-B Containing:**

- Rates of the RFID system quoted on the tender form
- Undertaking in the prescribed form for supply of RFID System etc.

I have gone through the terms and conditions for the supply of equipments/ instruments/ RFID system and I fully agree with Terms and Conditions enclosed with the tender form.

Your's Faithfully,

Contact No.:

Name and Signature of the

**Mobile:**

**Manufacturer / Dealer/ Supplier with Rubber stamp**

**TERMS AND CONDITIONS**

1. The tender should be accompanied with the **EMD** at the rate of 1 % for the value of the item quoted by the tenderer. The EMD will have to be deposited in the form of TDR/CDR./FDR for one year of **Nationalized Bank's only** cheque drawn in favour of **Comptroller, MKV, Parbhani**. If the EMD is not enclosed, the tender will be rejected. The Earnest Money deposited by a firm or a person whose tender is accepted will be returned after the decision is taken on the said tenders after six months of successful demonstration of equipment from the date of demonstration.
2. All the articles will have to be supplied **FOR Parbhani**.
3. The material should be of the approved quality **ISI mark** or as per the sample called for in a specific case or the specifications given by this office in the tender. The article which do not conform to approved specification(s) and consequently rejected will have to be replaced at the cost of the firm or supplier. In the absence or unsatisfactory supply, the articles will be rejected and corresponding cost will be deducted from the supplier's bill.
4. The details with all specifications, make of equipment's and also authorized dealer / manufacturer certificate from company should be accompanied with tender.
5. It is discretion of the Chairman, Library Strengthening ICAR Grant Utilization Committee 2012-13 to increase or decrease the quantity of equipment's/items and/or to relax the conditions in exceptional circumstances.
6. The articles should be supplied within a period of 90 days time limit from the date of issue of the orders for supply. In case of failure the Chairman shall have the right to purchase the article from the open market and to make good loss from the firm or supplier from his EMD or to impose a penalty @ Rs 100/- per item per day for the period for delay in supply. The decision of the **Chairman, Library Strengthening ICAR Grants Utilization Committee 2012-13** in the matter will be final.
7. It is open to accept even higher rates or to reject or to recall the tender without assigning any reason. Discretionary power of University authority to reject/accept tender without scrutiny and any prior reason is with **Chairman, Library Strengthening ICAR Grants Utilization Committee 2012-13**
8. The rates of each item be stated separately. The rates should be quoted in the space provided in the tender form or separately. Each paper should be signed by the Tenderer.
9. The rates should be quoted as per tender specifications only, rates without the specifications will not be considered.
10. The tender should indicate the rates in metric system of weights and measures thereof showing conversion rate, it should be allotted in the unit shown in the tender form only.
11. The purchasing officer will not pay octroi, taxes or damrrahage of the Municipal Council. The supplier will be responsible for this payment
12. The supplier should note that the rates should be inclusive of all admissible taxes. VAT, packaging, loading and unloading, forwarding, transportation, installation, insurance etc. In this context the rate will be presumed to include all these charges.

13. Installation and demonstration of equipment's with satisfactory performance should be given before the payment is made to the supplier. Payment will be made after satisfactory report is received from the concerned Intender /Scientists/Officer In charge.
14. The tender cover must bear the work "Tender for supply ,installation and training of University Library Management software integrated with Radio Frequency Identification (RFID) system" and should be submitted to **Chairman, Library Strengthening ICAR Grants Utilization Committee 2012-13** , University Library, MarathwadaKrishiVidyapeeth, Parbhani- 431 402 (M.S.)
15. The goods should be dispatched at suppliers risk, however, the supplier will be responsible until the entire items are supplied in good condition at the destination.
16. The material should have guarantee/warranty of one year from the date of installation / demonstration. The material should be replaced within 15 days at the cost of supplier , if necessary.
17. The **Tenderer must be registered under CST and MST etc.** Attested copy of such certificate must be enclosed in Envelope ' A' of the tender
18. The prescribed tender forms will be available in office of **University Library, MarathwadaKrishiVidyapeeth., Parbhani** and can be purchased on payment of **Rs.5000/-** in the form of **DD/Banker's cheque (Nationalized bank only)** payable in the name of **Comptroller, MKV, Parbhani** up to **25-03-2013 on the website of University by paying additional Rs 500/-**. **Website of the University is <http://mkv2.mah.nic.in>**
19. If the firm is under partnership, in that case attested copies of partnership deed certificate and power of attorney should be attached in the Envelope A.
20. Failure to observe any of the conditions mentioned above will result in the cancellation of the tender.
21. The **security deposit @ 4%** be deposited in the form of **TDR/CDR/FDR of Nationalized Bank only in favour of Comptroller. MKV, Parbhani.** The said amount will be returned after 6 months of successful demonstration with EMD.
22. The rates approved should be valid up to one year from the date of opening the tenders.
23. The supplier should give assurance of maintenance support for further period of five year after guarantee period. In such case University will enter into AMC contract.
24. Tenders will be opened on 25-03-2013 at 15.30 hrs in the chamber of Librarian, University Library, MKV.,Parbhani in the presence of Tenderers or their representatives.
25. If Library necessary, negotiations will be made by the committee immediately.
26. Proposal for comprehensive AMC of the system including Hardware and software upgrades after 1 year warranty period should be quoted. The Library Institute shall have the liberty to terminate/discontinue the AMC with the successful bidder at any point of time if not satisfied with the performance or are able to handle the system with own manpower/staff. However, bidder shall be willing to constantly work & support the library to resolve any RFID-ILMS functionality and integration problems if any.
27. Bidder will be fully responsible for standard integration using SIP-II protocol with existing SLIM21 (ILMS) and the performance of all components of the RFID materials and any malfunction/defective materials should be replaced free of cost during the warranty period. The entire system should be compatible with KOHA (LMS) Library Management system. It would be responsibility to demonstrate functioning of entire RFID system on KOHA and SLIM.
28. Successful bidder shall be willing to constantly work with the integrated library

management system bidder to reduce and resolve any RFID-ILMS functionality problems.

29. All systems shall be compatible with ISO standards recommendations adopted globally meant for implementation of RFID systems in libraries.
30. Unloading of item unskilled labour which may be required at the time of installation of the items should be borne by the vendor free of cost.
31. The warranty period shall be effective from the date having successful Installation integration, implementation,& training on the system at the university library premises.
32. Bidders shall demonstrate that the resources (infrastructure) which are required to provide robust pre and post-sales support to RFID Materials Flow Management System are available locally.
33. The bidder must be an Original Equipment Manufacturer (OEM) of RFID hardware components or an Authorized Dealer, Distributor of OEM of RFID hardware components or a System Integrator having experience in RFID Solutions.
34. The bidder shall agree to operate a pilot project to demonstrate the RFID system with existing ILMS in Library with sufficient number of books and users to ensure that the proposed system meets the requirement and satisfaction of the users department before the final order is placed.
35. 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.
36. All basic RFID Equipment such as Tags, Handheld readers, and Gates, should from One RFID Manufacturer.
37. Copy of latest Income Tax Clearance Certificate and PAN Card should also be enclosed.
38. The registration number of the bidder along with the CST Number & CST Number & TIN Number allotted by the Sales Tax Authorities must be given in the tender bid (Enclose necessary documents).
39. Bidder shall initially provide onsite RFID Technical support personnel those are fully trained by the manufacturer to reduce downtime. Remote support via email/Fax/ Phone etc. should also be available as and when required free of cost.
40. Preference will be given to those bidder who will supply and install all 1 to 12 items of RFID system with surveillance, access control and restricted zone components.

## UNDERTAKING

I/We agree and accept the terms and conditions of the tender No. \_\_\_\_\_ dated \_\_\_\_\_ and also it is binding on me/our part to fulfill the supply of the equipments /instruments etc. I will give the delivery of the material at the sites suggested in the work order. Installation, trial or demonstration will be carried on under the suggestion of the concerned officer/Scientist and as required.

I also agree to provide support for Maintenance/Service after the period of guarantee/warranty.

*Signature with seal*

Name of the Firm with full address:

Reg. No.

Income Tax No.(PAN):

VAT No:

CST/BST Reg. No.:

Service Tax No:

Sale Tax Reg. No.:

Place:

Date:

*Signature with seal*



## TECHNICAL SPECIFICATIONS

Item No.	<i>Specifications</i>
<b>1</b>	<p><b><u>SIP-II Protocol RFID Server software Layer from SLIM</u></b></p> <ul style="list-style-type: none"> <li>• Supply of SIP-II Protocol RFID server software layer for existing Integrated Library Management Software SLIM.</li> <li>• Integration with compliance Hardware.</li> <li>• Integration with existing Integrated Library Management Software.</li> <li>• Integration with University Management System through single sign-on using LDAP &amp; Authentication servers if required.</li> </ul>
<b>2</b>	<p><b><u>Self Adhesive RFID Passive Tags &amp; Anti-Theft Stickers</u></b></p> <p><b><u>(Quantity: 50,000 (Fifty Thousand))</u></b></p> <ul style="list-style-type: none"> <li>• Operating Frequency: 13.56MHz,</li> <li>• Dimensions 81 x 49 (L x W),</li> <li>• Memory 1204 bits,</li> <li>• With self adhesive backside.</li> <li>• With Lifetime Warranty</li> </ul>
<b>3</b>	<p><b><u>Library Staff Station</u></b> <b><u>(Quantity: 2 Nos.)</u></b></p> <p>Staff reader unshielded (IP Interface and USB), (HF Desktop Reader)</p> <ul style="list-style-type: none"> <li>• Should provide option of having reader with Table top or underneath table/desk</li> <li>• Should provide option of shielded reader for restricted antenna fields</li> <li>• Power consumption: Max 30w</li> <li>• Communication port: IP and Ethernet for communication over web service</li> <li>• Operation Temp: +10/+40</li> <li>• Frequency: 13.56MHz</li> <li>• Antenna Power: Max 1 w</li> <li>• Identification through ISO 15693/ISO 18000-3.1</li> <li>• EAS function: Using EAS bit (NXP-IC)/AFI</li> <li>• Certificate: CE/EMC</li> <li>• The staff station to be connected with existing PC and LMS without SIP2 or NCIP.</li> <li>• User should not be permitted to change the readers performance only trained professional should be able to change it on/off site.</li> </ul>

Item No.	Specifications
4	<p><b><u>Self Check-Out Check-In Kiosks Stations</u></b></p> <p><b>A. Self Check Out Desk System along with Mifare Scanner and software (RFID/Reader, Touch Screen Industrial PC, Printer, GigatechMifare Reader, Software, Cabling and Furniture. (Quantity: One)</b></p> <ul style="list-style-type: none"> <li>• RFID enabled self check in/out counter for patrons to perform check out/in functions.</li> <li>• Long range RFID Reader and Antenna with multiple Read/Write facility.</li> <li>• Customizable Kiosk Shell to suit the library decor,</li> <li>• High Speed Thermal Kiosk Printer,</li> <li>• LCD Touch Screen Monitor.</li> <li>• Branded Industrial Personal Computer.</li> <li>• The Self Checkout station client software should interface with Library Software giving features like, Check out / Check in / Renewal, Transaction Printout.</li> <li>• Provision for display of Institute Name.</li> <li>• The design should be Wheel Chair compliant so that patrons on Wheel Chair are able to use the self check without problems. Preferable to meet International with regard to self check-in/-out of library customers in a wheel chair.</li> </ul> <p><b>B. Self CheckInIntelligent Trolley /Shelves and Info Columns: Info Column for 1 XL book trolley, intelligent XL trolley package with the required software. (Quantity: One)</b></p> <ul style="list-style-type: none"> <li>• Info Column and Intelligent Shelves for check in of Books: These shelves are to be used by the patrons for returning of loaned books.</li> <li>• The patrons should not have to go through any process for returning the loaned books. They have to just place the books in the intelligent shelves for return of the books and these returned books should get updated in the Library Management system.</li> <li>• Specifications: Should hold approx 175 books.</li> <li>• The info column should be build with Industrial PC having 15 inch Touch screen display to show the books returned.</li> <li>• Should be compatible to RFID frequency 13.56MHz.</li> <li>• The shelves should have EAS functionality using EAS Bits / AFI.</li> </ul>
5	<p><b><u>Handheld Shelf Management Reader &amp; Inventory System with required Software (Quantity: 1 No.)</u></b></p> <ul style="list-style-type: none"> <li>• Should perform Scanning, weeding and searching functions.</li> <li>• Should have Lithium Battery with a life per charge of 30 Hours.</li> <li>• Should be supplied with Large, Clear &amp; Sharp Colour Display.</li> <li>• Should have Identification for both Bar Code &amp; HF RFID Labels.</li> <li>• Should weigh 1kg or less.</li> <li>• Should be supplied with Desktop Charging cradle with USB connection,</li> <li>• Should be compatible to communication standards like WLAN or USB. Certification CE/EMC. Warranty 1 year.</li> <li>• The portable handheld reader shall feature a touch screen display and use a removable memory card.</li> <li>• Must process shelf lists, search lists, and pull lists for programming onto memory card.</li> </ul> <p>Must provide a means for updating the software on the portable handheld reader</p>

Item No.	Specifications
6	<p><b><u>Two EAS Pedestal Library Security Gate (Quantity: One Set)</u></b></p> <p>PG 45 antenna system (1 Aisle), with CC, with echo reader (HF Gate reader and IIF antenna)</p> <ul style="list-style-type: none"> <li>• The Security gate must be made of Plexiglas and should be transparent.</li> <li>• Two EAS Pedestal Library Security Gate (Quantity: One Set)</li> <li>• Security gate should include two theft detection pedestals, 2 antennas for large detection field range of 1 mtr between two pedestals which are interdependent of each other and also have an overlapping protection zones providing additional security.</li> <li>• Should have provision for Lights and buzzer.</li> <li>• Chip Compatibility:ISO15693-3/ISO 18000-3</li> <li>• Detection Range: Upto 1 mtr (approx) between two pedestals</li> <li>• Communication ports: USB/UTP</li> <li>• Tags with theft or security bits that are “on” must immediately trigger an alarm.</li> <li>• The proposed system must provide item security even when the Library Management System or network is off-line or not functioning.</li> <li>• Should have suitable number of I/O ports for Standard electronic counter, web cam, trigger, CCTV, Locking gates, etc.</li> <li>• It must be possible to easily remove the Anti Theft gates to allow Large objects like furniture to pass through</li> <li>• Should be supplied with an fully ROHS compliant Eco Reader to save power.</li> </ul>
7	<p><b><u>SMART Cards with required Software</u></b></p> <p><b><u>A. Smart Card For ID and Library Card (Quantity: 2500 Nos.)</u></b></p> <ul style="list-style-type: none"> <li>• The smart cards should be standard Plain wide cards that can be used as common campus ID cards.</li> <li>• ISO/IEC 14443A Mifare passive contactless 1 Kb memory with the offered RFID system for membership/patron using standard protocol of NCIP for Read/Write/Rewrite.</li> <li>• Must be for multipurpose use.</li> <li>• Smart card should be printed, activated and delivered to the library for currently active patrons already registered with the library. Bidders should print &amp; activate the smart ID cards on-site during the implementation phase.</li> </ul> <p><b><u>B. Application Software to read and write information related to student on the Smart Card</u></b></p> <p><b><u>C. Smart Card Printer (Quantity: 1 Nos.)</u></b></p> <ul style="list-style-type: none"> <li>• 16-character LCD display</li> <li>• Bi-directional driver communication •</li> <li>• Two year printer warranty •</li> <li>• Two year (unlimited passes) original print head warranty</li> <li>• Color dye sublimation or monochrome thermal transfer printing</li> <li>• Communications Interface USB 1.1 (USB 2.0 compatible) cable included • Optional Built-in 10/100 Ethernet</li> </ul> <p><b><u>D. Application Software to print Library Card matter on the Smart Card</u></b></p>

Item No.	<i>Specifications</i>
8	<p data-bbox="370 220 1013 254"><b><u>Hands-on-Training (One-Site) with Manuals/Guide</u></b></p> <ul data-bbox="418 359 1404 737" style="list-style-type: none"> <li>• Comprehensive in-house operational training for all equipments and front end interface.</li> <li>• Training for Handling of RFID Tagging on documents and Printing of Smart ID Cards.</li> <li>• Troubleshooting training</li> <li>• Complete Write-up/Manual/Guide for operation and handling of all RFID equipments.</li> <li>• Training to be given to all Library Staff &amp; Library Users.</li> <li>• Shall depute technical personnel on site up to period of 3 months so as to support, train and resolve any issues that may arise due to the implementation of RFID system.</li> </ul>
9	<p data-bbox="370 810 607 844"><b><u>Tagging Job Work</u></b></p> <p data-bbox="370 942 734 976">Job involves the following steps</p> <ul data-bbox="418 980 1437 1633" style="list-style-type: none"> <li>• Co-ordinating with library for tagging of books, journals, loose issues/magazines, CDs, DVDs, etc.</li> <li>• Removing the documents from Shelves.</li> <li>• Verifications of following Bibliographic data from SLIM (ILMS) database and physical documents <ul data-bbox="467 1152 782 1247" style="list-style-type: none"> <li>i. Accession Number</li> <li>ii. Class Number</li> <li>iii. Location</li> </ul> </li> <li>• Tagging of RFID tags with the following parameters using ILMS database</li> <li>• Primary data as Accession number mentioned on the book or barcode labels on the documents.</li> <li>• Associated data to be fetched using ILMS like Class No. Location, Library Code, date of entry, etc.</li> <li>• Fixing of self-adhesive RFID tag &amp; anti theft stickers at the designated place of in the documents.</li> <li>• Verification of data stored in the RFID Tags</li> <li>• Provision to mark the records as “RFID Tagged” in ILMS and generation of reports as per local need.</li> </ul>

Item No.	Specifications
10	<p><b><u>Restricted Zone for Access Control</u></b></p> <p><b>A. <u>Creation of Restricted Zone</u></b></p> <p><b>I. <u>Creation of Restricted Zone for Boys, Girls, Periodicals, Reading Area and Office Bearers using Plywood, Glass Panels duly laminated along with gates compatible with access control system using above smart card</u></b>  <b>(Quantity: 1434 sq. feet) (Subject to Vary)</b></p> <p>Material to be used</p> <ul style="list-style-type: none"> <li>• Good quality ISI mark 19 mm thick plywood/MDF covered with Lamination of minimum 1.2 mm thick or Painted / Wood polished.</li> <li>• Glass panel 12 mm thick fixed with fastener.</li> <li>• Rates to be quoted for per square feet</li> </ul> <p><b>II. <u>Creation of Restricted Zone for Computer Lab along with gates compatible with access control system using above smart card</u></b>  <b>(Quantity: 408 sq. feet)(Subject to vary)</b></p> <p>Material to be used</p> <ul style="list-style-type: none"> <li>• Good quality MDF, Aluminum channel duly power coated desired colour</li> <li>• 5 mm thick transparent glass panel size 5 x 2 feet</li> <li>• Rates to be quoted for per square feet</li> </ul> <p><b>B. <u>Access Control System using Smart Card and electronic lock with required application Software</u></b>  <b>(Quantity: 3 Nos.)</b></p> <p>Specifications</p> <ul style="list-style-type: none"> <li>• GUI Interface for ease of use</li> <li>• Embedded LINUX system, easy to integrate into various system</li> <li>• Standalone or network environment</li> <li>• Embedded multi-language interface</li> <li>• 3” color screen with more compatible usage</li> <li>• 24 hours continuous operation available</li> <li>• Built-in access controller, Support time zones,5 groups,10 door-opening combinations</li> <li>• Saves data during power outage</li> <li>• Audio-Visual indications for acceptance and rejection of valid/invalid cards</li> <li>• Display: LCD Display: 128 x 64 Blue LCD English</li> <li>• Speaker: Voice Prompt (language can be selected)</li> <li>• Capacity : Fingerprint capacity: 5,000, Log capacity: 50,000</li> <li>• Verification/Identification: Verification speed(1:1): ≤0.5s, Identification speed(1:N): ≤1s</li> <li>• FRR: ≤0.01%, FAR: ≤0.0001%</li> <li>• Power Supply: 110/220VAC ~ 5VDC</li> <li>• Communication TCP/IP, RS232/485, USB Host/Client</li> <li>• Attendance status: Check in, Check out</li> <li>• Standard Function: Auto status</li> <li>• Customize Function 9-PIN ID, Printer output, ID reader</li> </ul>

Item No.	<i>Specifications</i>
11	<p><b><u>System with required software for local and remote view along with cable, accessories, configuring and fixing complete setup</u></b>  <b><u>Digital Video Recorder (DVR)</u></b>  <b>(Quantity: 1 Nos.)</b>  Specification</p> <ul style="list-style-type: none"> <li>• 16 Channel</li> <li>• Processor: High performance embedded microprocessor</li> <li>• Operating System: Embedded LINUX</li> <li>• System Resources: Pentaplex function: live, recording, playback, backup &amp; remote access</li> <li>• Control Devices: Front panel, USB mouse, IR remote control, Keyboard, Network</li> <li>• Video Input: 16 channel, BNC (1.0Vp-p, 75Ω)</li> <li>• Video Output: 1 VGA, 1 TV, BNC (1.0Vp-p, 75Ω)</li> <li>• Video Standard: NTSC (525Line, 60f/s), PAL( 625Line, 50f/s)</li> <li>• Compression: H.264 / G.711</li> <li>• Video Resolution: 1280×1024, 1280×720, 1024×768, 800×600</li> <li>• Video Recording: D1/4CIF@1~6/7fps(704×576/704×480) / CIF@1~25/30fps(352×288/352×240) / QCIF@1~25/30fps(176×144/176×120)</li> <li>• Video Display Split: 1/4/8/9/16</li> <li>• Privacy Masking: 4 self-defined four-sided zones for privacy masking for each camera</li> <li>• Audio Input: 1 channel, RCA (200-2800mV, 30KΩ)</li> <li>• Bi-directional Talk Input: Same with audio input channel 1</li> <li>• Audio Output: 1 channel, BNC (200-3000mV, 5KΩ)</li> <li>• Hard Disk: 1 SATA port, Max 2TB HDD supported</li> <li>• HDD Management: Hard disk hibernation technology, HDD faulty alarm</li> <li>• Recording Mode: Manual, Schedule(Regular(Continuous), MD(Video detection: Motion detection, Camera blank, Video loss)), Stop</li> <li>Recording Priority: Manual &gt; MD &gt;Regular</li> </ul>

**Annexure-1**  
(Item No. 1-11)

Sr. No.	Particulars	Qty	Unit	Unit Rate	Amount
1	SIP-II Protocol RFID Server software Layer from SLIM	01	No's		
2	Self Adhesive RFID Passive Tags & Anti-Theft Stickers	50,000	No's		
3	Library Staff Station	02	No's		
4	<b>Self Check-Out Check-In Kiosks Stations</b>				
A	Self Check Out Desk System along with Mifare Scanner and software (RFID/Reader, Touch Screen Industrial PC, Printer, GigatechMifare Reader, Software, Cabling and Furniture.	01	No's		
B	Self Check In Intelligent Trolley /Shelves and Info Columns: Info Column for 1 XL book trolley, intelligent XL trolley package with the required software.	01	No's		
5	Handheld Shelf Management Reader & Inventory System with required Software	01	No's		
6	Two EAS Pedestal Library Security Gate	01	Set		
7	<b>SMART Cards with required Software</b>				
A	Smart Card For ID and Library Card	2500	No's		
B	Application Software to read and write information related to student on the Smart Card	01	No's		
C	Smart Card Printer	01	No's		
D	Application Software to print Library Card matter on the Smart Card	01	No's		
8	Hands-on-Training (One-Site) with Manuals/Guide for 3 months to Library Staff	Job			
9	Tagging Job Work	50,000	No's		

10	<b>Restricted Zone for Access Control</b>				
A	<i>Creation of Restricted Zone</i>				
I	Creation of Restricted Zone for Boys, Girls, Periodicals, Reading Area and Office Bearers using Plywood, Glass Panels duly laminated along with gates compatible with access control system using above smart card	1434	Sft		
II	Creation of Restricted Zone for Computer Lab along with gates compatible with access control system using above smart card	408	Sft		
B	Access Control System using Smart Card and electronic lock with required application Software	03	No's		
11	<b>Surveillance System with required software for local and remote view along with cable, accessories, configuring and fixing complete setup</b>				
A	Digital Video Recorder (DVR)	01	No's		