



INDIAN INSTITUTE OF TECHNOLOGY MADRAS
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IIT PO, CHENNAI - 600 036, (INDIA)



Librarian

Phone: Office: 91-044-2257 4951,52

Inviting Quotations for RFID Hardware

Ref.No. D/CLIB/2012-13/ENQ/003/

Date: 28.01.2013

Web Version

DUE DATE: 14.02.2013

To Addresses

1. Quotations are invited in duplicate for the various items shown below / overleaf / Enclosed list.
2. The Quotations duly sealed and superscribed on the envelope with the reference No. and due date, should be addressed to the undersigned so as to reach him on or before the due date stipulated above.
3. The Quotations should be valid for sixty days from the due date and the period of delivery required should also be clearly indicated.
4. If the item is under DGS&D Rate contract No. and the price must be mentioned. It may also please be indicated whether the supply can be made direct to us at the Rate contract price (Please note that we are not Direct Demanding Officers). If so please send copy of the RC.
5. Relevant literature pertaining to the items quoted with full specifications (and drawing, if any) should be sent along with the Quotations, wherever applicable. Samples if called for, should be submitted free of charges, and collected back at the supplier's expenses.
6. Local Firms: Quotations should be for free delivery to this Institute. If Quotations for Ex-Godown delivery charges should be indicated separately.
7. Firms outside Madras: Quotations should be for F.O.R. Madras. If F.O.R. consignor station, freight charges by passenger train / lorry transport must be indicated. If Ex-Godown, packing, forwarding and freight charges must be indicated.
8. The rate of sales / General Taxes and the percentage of such other taxes legally leviable and intended to be claimed should be distinctly shown along with the price quoted. Where this is not done, no claim for Sales / General Taxes will be admitted at any stage and on any ground whatsoever. The taxes leviable should take into consideration that we are entitled to have concessional Sales Tax applicable to non-Government Educational Institutions run with no profit motive for which

a concession. Sales Tax Certificate will be issued at the time of final settlement of the bill.

9. Goods should be supplied carriage paid and insured.
10. Goods shall not be supplied without an official supply order.
11. Payment: Every attempt will be made to make payment within 30 days from the date of receipt of bill / acceptance of goods, whichever is later.

(Dr. HARISH CHANDRA)
LIBRARIAN

RFID-Hardware

S.N.	Item	Number required
1	Self-Check- Out Stations	3
2	Remote Book Drop Station	1
3	Stock Management System (SMS) inventory with PDA	1

Note:

1. Specification-cum-Technical bid document details and terms and conditions are enclosed herewith for RFID hardware
2. Tenderer should submit quotation in the prescribed given format

Central Library, Indian Institute of Technology Madras

The Central Library of IIT Madras invites Quotation for supply of following interoperability hybrid Radio Frequency Identification (RFID) hardware as per enclosed specification in two sealed bids (1) technical Specification and (2) Commercial bid.

Item	Number required
Self-Check- Out Stations	3
Remote Book Drop Station	1
Stock Management System (SMS) inventory with PDA	1

Terms and Conditions:

- Vendor should submit two separate bids viz., "Technical Bid" and "commercial bid".
- Technical Bid** shall contain the following i) Duly filled in Compliance proforma for each item indicating the conformity of Specifications laid down for which quotations are being submitted, ii) Detailed technical brochures, iii) the libraries to which these equipment have been supplied. The technical bid should be kept and sealed in a separate cover and it should not include any commercial details. Technical bid with commercial details or without any of the above listed enclosures will be summarily rejected.
- Commercial Bid** should specify the rates for each item which conform to the specifications for which technical bids have been submitted. The commercial bid shall be kept in a separate sealed cover. The commercial bid shall include all the terms and conditions including validity of the quotation, taxes, and warranty for each of the items. IIT Madras will provide the PCs for Self-Check-out station and Book Drop Box (if necessary).
- Warranty:** The bidder shall provide a **thirty-six (36)** months warranty for RFID Reader and twelve months (12) for rest of the hardware upon completion of the project. The bidder shall bear all costs of testing or examining incurred in repairing defects if such defects are discovered within the Warranty Period. These include overseas phone calls / fax, air freight charges etc.
- Method of short-listing:** The technical bids received till the last date will be opened first. The commercial bids of only those qualify through evaluation of technical bid will be opened. The commercial bids bidders which are not satisfying the **Technical bid** will be returned back to the vendors.
- The prices quoted by the Tenderer should be inclusive of Sales Tax/VAT and other statutory levies (and should be clearly stated to be so) which will be paid by the Purchaser/if legally leviable at the rate ruling on the date of supply. The percentage of tax etc. included in the price should be indicated in clear terms. If the inclusive price is not given, we will treat your offered rate as inclusive rate and comparison be made with others.
- The price should be without customs duty and excise duty since IIT Madras is fully exempted from payment of excise duties and also eligible for payment of concessional customs duty against submission of Essentiality Certificate. The customs duty will be payable / reimbursable by us at the time of clearance on production of necessary proof. Hence these duties need not be included in the price while quoting. **No price revision, changes in the specification already given or changes in the terms and conditions etc. during the period is acceptable.**
- We are eligible for concessional VAT/CST on submission of concessional certificate. **The Institute is not authorized to issue C or D forms of Sales tax certificate.** Hence VAT/CST should be charged at concessional rates as applicable to educational and research institutions run without profit motives, for which necessary certificate will be issued on demand at the time of retirement of documents/payment, wherever applicable.
- For any clarification or discussion contact Mr. Mahendra Jadhav, Deputy Librarian, between 9.00 am and 5.00 pm. on all working days (Monday to Friday). Contact phone number 044-22574962.
- The last date for receipt of quotations by **speed post: 14.2.2013**. Write clearly on the top of the respective covers "Technical bids" and "Commercial bids". These two sealed covers shall be placed in another sealed cover and submitted before the last date in the name of **Librarian, Central Library, IIT Madras, Chennai - 600036. (Despatch through courier/hand delivery are not permissible)**
- Annexure I & II are enclosed herewith for your reference for pricing.

Specification-cum-technical bid-document:

Tenderers must demonstrate and provide information on the following. (Document proof to be enclosed)

	Compliance Yes/No
1. RFID Hybrid system must be able to Interoperate with existing IITM RFID hardware	
2. RFID Hybrid System must be able to compatible with two kinds of I-CODE chips manufactured by NXP (formerly Philips Semiconductor Product name: SL1 ICS30 01, Common name: I.CODE1 ; and Product name: SL2 ICS20, Common name: I.CODE2). The chip SL2 ICS 20 is fully conforming to ISO/EC15693	
3. RFID Hybrid System must be able to activate and deactivate the EAS security bit.	
4. RFID Hybrid System must be able to Interact and flexible enough to follow the existing IITM Library (VIRTUA-VTLS) LMS workflow (Check-In ,Check-Out process)	
5. RFID Reader Central carrier frequency 13.56 MHz \pm 7 kHz	
6. RFID Reader Antenna output 4.0 W	
7. The bidder shall ensure all RFID hardware (self-check-out, book Drop box & SMS) and components proposed are compliant with NXP i-Code1 and ISO/IEC 15693 standards.	
8. Reader/Writer System: The bidder shall provide dual NXP iCode1 (SL1 ICS30 01) and ISO/IEC 15693(SL2 ICS20) compliant reader in a single-box entity for all self-service RFID Stations stated in the Tender	
9. The reader should be able to detect, identify and read the following RFID tags in simultaneous mode: iCode1 (existing IITM RFID tags) ISO/IEC 15693 compliant (existing IITM RFID tags)	
10. Radiated Emission and Safety Regulations: The RFID hardware/solution design proposed by the bidder shall conform to the safety standards or certifications.	
11. RFID hardware must be achieved the IP60 Waterproof constructions	
12. Reference contacts must be submitted for similar Hybrid RFID System installed at minimum three library sites and the collection size more than 1,00,000.	
13. The design of the RFID System shall be modular / flexible to allow application functionality and/or new hardware peripherals or IITM existing hardware peripheral to be added and existing functionality to be enhanced, etc. with minimal changes to the RFID System.	
14. Based on the Process all service modules must handle the EAS bit	
15. All RFID service modules Read and Write Functions must handle different controlled code in alpha-numeric formats.	
16. All RFID Station must have ability to ensure the list of hardware equipment(s) and components are able to perform self-diagnosis processes at pre-defined schedule for each station and/or on ad-hoc basis	
17. RFID system alert message shall be forwarded for notification by existing RFID Local host Server, if any hardware(s) or peripheral(s) are detected to be not operational	
18. All RFID modules must able to connect and update the transaction in real time with the existing IITM RFID Local host	
19. All RFID service modules integrate seamlessly with Library Management System via SIP2 Protocol .	
20. Tenderers must have more than 3 years' experience in RFID Hybrid system	
21. It Support Windows OS	

Name, signature and seal of the Bidder

Technical Bid: Self-Check-Out Station

No.	REQUIREMENTS	I/M/O		COMPLIANCE FC/PC/NC/
1.1	Self Service Station or check-out station/kiosk shall comprise the following hardware/peripheral/device: <ul style="list-style-type: none"> • RFID reader/interrogator • Antenna pad • Thermal receipt printer • Touch screen • Optional – PIN pad 	I		
1.2	Self-service circulation applications that includes Book Borrow, Book Return, Sorting, are easily activated e.g. single-click	I		
1.3	The station shall provide self-identification of student via <ul style="list-style-type: none"> • Simple Barcode ID or • RFID card or • Smart card Option to Integrate third party reader	M		
1.4	To enable students to check out maximum 5 library items at one go within 10 secs on online mode(Connected with Library Management System)	M		
1.5	To be able to Read/Write and process ISO/IEC-15693 compliant tags and/or iCode1 tags <ol style="list-style-type: none"> a. Process maximum 5 Item at one go b. Based on the Process must handle the EAS bit c. Rejected Item must be listed in separate box with audio alert 	M		

Explanatory Note: I- Important; M-Mandatory; O-Optional,
FC - Full compliance; PC -Partial compliance; NC-Not compliance

Name, signature and seal of the Bidder

Technical Bid: Book Drop box (Self-Check-in)

No.	REQUIREMENTS	I/M/O		COMPLIANCE FC/PC/NC
2.1	Book Drop station (self-service) shall in-corporate the following expected requirements: Ability to detect and identify item that belongs to IITM prior to start of returning process. Only item belonging to IITM is allowed to be returned or dropped into the Book Drop station. The design of chassis shall come with anti-vandalism, fire-deterrent and weather-resistance features. Minimum capacity to house at least 150 books	M		
2.2	Book Drop must be able to display item ID once item is returned.	O		
2.3	Items returned to the book Drop must immediately cancel the loan.	M		
2.4	Book Drop must come with a sensor to indicate when the book bin is full	M		
2.5	The design of the book drop must have the scalability to extend into auto book sorter.	M		
2.6	The Contractor shall ensure that the Book Drop /equipment (e.g. Bin Full Sensor, Flap Sensor) is able to perform self-diagnosis process during start-up of the hardware and/or user pre-defined interval. System alert message shall be forwarded for notification to existing RFID Local host Server, if any hardware(s) or peripheral(s) are detected to be not operational.	M		
2.7	The flap lock must be able to withstand minimum 300N force to minimize vandalism.	I		

Explanatory Note: I- Important; M-Mandatory; O-Optional,
FC - Full compliance; PC -Partial compliance; NC-Not compliance

Name, signature and seal of the Bidder

Technical Bid: Stock Management System with PDA

No.	STOCK MANAGEMENT SYSTEM (SMS)	I/M/O		COMPLIANCE FC/PC/CC/
3.1	The Contractor shall supply the handheld scanner with all the required software and accessories to perform (but not limited to) the following functions: Stocktaking – to conduct stock check On-shelf Sort – to detect wrongly shelved items Searching to locate particular items(s) on shelves and display the item ID, item title or call number with audio alert Security - items can be identified easily by the security status; e.g. if the item is armed, the system should be able to display the item ID, item title or call number with audio alert.	M		
3.2	The handheld scanner must be portable & rugged	M		
3.3	The handheld scanner must be able to read approximately 15 publications per second	I		
3.4	The handheld scanner must be able to detect thin books of thickness $\geq 5\text{mm}$	I		
3.5	The handheld scanner must equipped with wireless capability and blue tooth enabled for mobility	M		
3.6	SMS battery backup must support minimum 3hrs and Contractor must provide stand-by battery too	M		
3.7	The handheld scanner must be compatible with PDA operating Microsoft smart device OS	I		
3.8	During stock taking or searching, information captured in PDA must be automatically updated to RFID server on a real time basis	I		
3.9	Stock Management system must be web enabled so that user can access reports from any remote terminal	I		
3.10	Stock Management System must be able to generate reports of missing items ,extra items and found items	M		
3.11	PDA			
	Operating System : Supports Windows® CE5.0 Display : 3.7" VGA TFT LCD transfective technology Storage : Flash ROM 1GB Memory : 256 MB SDRAM CPU Type: Marvell PXA 270 624MHz Additional devices : Bluetooth & wi-Fi Battery : High capacity Li-ion battery provides 6 hours of continuous operation Standard : IP67 rating guarantees total protection against dirt, dust and water	M		

Explanatory Note: I- Important; M-Mandatory; O-Optional,
FC - Full compliance; PC -Partial compliance; NC-Not compliance

Name, signature and seal of the Bidder

Commercial Bid (Proforma)

Item	Number required	Quote Item Rate	Quote Total
Self-Check- Out Stations	3		
Remote Book Drop Station	1		
Stock Management System (SMS) inventory with PDA	1		
Others, if any			
Taxes etc.			

Certified that the commercial bid completely in conformity with the technical bid specifications.

Name, signature and seal of the Bidder

Annexure–I TERMS & CONDITIONS for Rupee quote		
1.	Sales tax	IIT will issue concessional sales Tax certificate for purchase of scientific and research items. IIT is not eligible to issue “C” or “D” form. Percentage of tax if applicable- may be mentioned.
2.	Validity	Should be mentioned clearly
3.	Service charges	Extra, if applicable
4.	Freight charges	Extra, if applicable
5.	Customs duty	IIT is eligible for concessional customs duty. The necessary certificate will be issued for clearance.
6.	Excise duty	IIT is fully exempted from excise duty. The necessary certificate will be issued for clearance.
7.	Discount	Should be stated in clear terms / percentage of discount should be stated.
8.	Warranty	May be stated clearly.
9.	Payment terms	- do -
10.	Delivery period	- do -
11.	AMC	May be stated clearly.
12.	Any other details	Separate sheet may be attached.
Annexure–II TERMS & CONDITIONS for Foreign quote		
1.	Price	Please state whether the price quoted by you is Ex-works / FOB / CIF / CIP / FCA etc. For quote received in Ex-works / FOB / FCA etc. value, for freight, insurance etc. additional 10% of quote value will be added and comparison will be made accordingly for CIF / CIP at the prevailing exchange rate on the date of opening of tender (i.e.) on 26.12.2012
2.	Validity	Should be mentioned clearly
3.	Customs duty	IIT is eligible for concessional customs duty. The necessary certificate will be issued for clearance.
4.	Discount	Should be stated in clear terms / percentage of discount should be stated.
5.	Warranty	May be stated clearly.
6.	Payment terms	- do -
7.	Delivery period	- do -
8.	AMC	May be stated clearly.
9.	Any other details	Separate sheet may be attached.