

Expression of Interest (EOI) are invited from Govt. Agencies/Total Solution Provider for Website, LMS Software with HF RFID (13.56 MHz) and SIP2/NCIP Technology & Physical Lab Items Stock Management with HF RFID (13.56 MHz) Chip I code Slix 2 and Hand-held Stock Reader (PDA)

No: 17/A1/2017/IUCBR&SSH

Dated: 03.08.2017

1. Inter University Centre for Biomedical Research and Super Speciality Hospital (IUCBR & SSH), Thalappady

Inter University Centre for Biomedical Research and Super Speciality Hospital (IUCBR&SSH), is established within the Mahatma Gandhi University in Kerala for centrally providing state-of- the-art facilities for researchers working in different Universities within the State. The Inter University Centres are interdisciplinary in nature for cutting-edge basic and applied research across disciplines. The IUCBR&SSH shall conduct postgraduate and PhD programs in Biomedical Research and award degree through Mahatma Gandhi University or any other relevant institution. The institute is established to conduct translatable high-end research and to transform scientific breakthroughs into accurate diagnostic measures and life-saving treatments for patients. As a long-term plan, it is envisaged to establish a super speciality hospital with facilities to deal with emerging crisis of viral, bacterial and other infectious diseases, immunity crisis arising out of such infections, geriatric issues, developmental disabilities, infection and inflammation, the ageing body and brain, mitochondria and neurodegenerative diseases, brain injury and repair, mental health, metabolism, endocrinology and general health. Population health science; transplantation and regenerative medicine; genomics; and children and women's health are the other areas of interest. Generation of highly skilled manpower in biomedical research to enrich and strengthen the country's healthcare sector is another priority in the long-term plan for the institute.

IUCBR & SSH invites Expression of Interest from Govt. Agencies/reputed firms having expertise in website design and Development as per the guidelines of Govt. of India with cyber security features.

2. Scope of the Work

Broad scope of the work is as follows:

- a) Redesigning of the website of IUCBR (in English and Later in Malayalam) as per GOI Guidelines for an official website.
- b) Managing data through **open source web Content Management System (CMS)**.
- c) Design and standardization of the template
- d) Customization and development of the website
- e) Content development in English and thereafter in Malayalam language
- f) Content Organization and updating of contents in the website, with aesthetic sense
- g) User Friendly navigation, with interactive ports.
- h) Database driven approach, with domain name (ac.in) registration as in any University in India.
- i) Training of IUCBR Personnel for updating, managing and administering the website
- j) Implementation of the website, with Domain name registration
- k) Maintenance and technical support and troubleshooting for ease of operation
- l) On-line publication of scientific journals, at regular intervals

Developer must follow **guidelines for Government of India websites to ensure proper standardization** of all content. Website needs to be designed with all dynamic features for updating and prescribed web accessibility features as below:

- a) Least site opening time, fast browsing
- b) Clean and professional design
- c) Website to reflect the organization's objectives
- d) Search engine friendly, and with easy operation
- e) Security of website to be secured
- f) Should have mobile compatibility
- g) Website should be viewable with the popular versions of major browsers like Google Chrome, IE, Oprah, Netscape, Mozilla, Safari, etc. and should work with all commonly used resolutions.
- h) The site will completely be in English language with the provision of Malayalam version and graphics on pages, wherever required.

3. Design

Current tools in designs shall be properly blended to keep on par with the latest web requirements. The home page of the website will be done by keeping an eye on the project requirement. Clean, elegant, eye-catching, and refreshing appearance shall be identical in all respects.

- Responsive design: website adjusts automatically to different screen widths, and is also compatible with tablets and mobile devices.
- Attractive, landing (home) page with easy, intuitive navigation menus and a large image slideshow linking to the selected services you wish to highlight.
- Social networking integration, with e.g. Facebook, Twitter, LinkedIn.
- Range of modern features including, as required: integrated Google location maps; contact and/or newsletter signup forms; PDF downloads for user content; password protected pages for, e.g. private, client-specific content.
- Search Engine Optimization (SEO) module to ensure site is SEO compliant.
- Automated website backup module for added security.
- Compatibility with all major web browsers. Page optimization for rapid browser load.
- Fully modular for easy expansion of functionality in future.
- Theme-based design permits rapid redesign of each website in future, if required.
- Security and performance advantages, as theme and code modules can be updated, to account for new threats or web browser updates.

4. Functionality Covered

The proposed website should cover the following functionality points:

- a) The website should have a provision of providing clean URLs.
- b) There should be a provision to automatically remove or sent to Archive the expired content from primary screen. The design should be responsive for easy reading and navigation with a minimum of resizing, panning, and scrolling across a wide range of devices including mobile devices.
- c) Provision for enabling RSS feed for users to subscribe to latest news/updates from IUCBR.
- d) Comments to be moderated using Captcha to discourage any automated process from entering any information to IUCBR website.
- e) QR code to be generated for the website. No change in core CMS code to facilitate future upgrades of the CMS.
- f) Application should be developed using modules of the CMS proposed.
- g) Separation of Design and Content – content to be stored in the database and designed to be controlled using cascading style sheet (CSS). Separate CSS for use with Internet Browsers and Mobile Browsers.

5. Language

The website must be in English; and provisions for Malayalam integration later and should be in Unicode.

6. Time Schedule

The design, development, testing and implementation of the website should be completed within **45 days** in all manners from the date of Work order/Purchase order.

7. Content sharing with Social networks

The website shall be provided with content sharing, option to social networking website. The icons of social networking sites such as Facebook, Google Plus, Twitter, etc. will be shown in the bottom of the articles and by clicking on the icons they can send article to the social network with comment note.

8. Quality

All works related to the development of the website should be handled by professionals and have excellent quality.

9. Copyright

The copyright of the entire website including design and content shall vest with IUCBR&SSH, Thalappady.

10. Website Layout

The website may be categorized as, for Employees, for Public, for Patients, for Clinicians, for Professionals and Students and the following facilities/features are also included in the website;

- a) All Publications of IUCBR - Publications may be uploaded in .pdf format
- b) GOs, Circulars, Proceedings and Guidelines - back end uploading facility are required
- c) Citizen Charter
- d) **Seminar/Workshop Registration** - Online registration, booking, displaying available slot/date, uploading abstracts, payment of registration fee, Google Map address and directions, direct-to-webpages of relevant sites like hotels, rent-a-car, guest houses, etc., Contact, feedback portal, etc.
- e) Ask to Expert and Feedback - The submitted data to be made available through e-mail.
- f) Details about the Institute, research facility, academic programs, hospital, and FAQ
- g) Integrated with our evolving applications.
- h) **Online career application** - Separate application for Academic, Non- Academic, Contract, Fellowship, Senior Residency, Project staff, online application fee payment facility, proper validation & control on the flow, Data export to excel, Documents upload, Back-end for application verification, printer friendly output, and management.
- i) Attendance Report of staff- Integrated with bio-metric punching database.
- j) Online Monthly Report generation
- k) Mobile Support
- l) Career guidance portal for Students - Resume Management, Registration, search, etc.
- m) Online Platelet/blood donor Registry – Online Registration & appointment facility
- o) Patient Appointment system- Integrated with our existing application.
- p) Video, Photo and Poster gallery
- q) Details for facilities and services; conveniently arranged for users
- r) Search & find function/window
- s) Academic Programmers, Annual Reports, survey handouts, and Research activities – Photo upload facility
- t) Library books and Journal availability, Online Journals, etc.
- u) RTI Act.
- v) Media Scan
- w) Details about IUCBR, Department and staff details
- x) Mission, Vision and Quality Standards
- y) Visitors counter, Testimonials, Random image, banners, Location Map, etc.
- z) Flash items for news/latest activities, etc. for quick accession to details.
- a') Online publication of e-journals at regular intervals

- b) The site should have user id and password dependent signing in. Once signed in, the author could only view/work on the file submitted by him/her.
- c) The registered author should be able to upload manuscripts, Tables, etc. in word files; Photographs in JPEG or Tiff format.
- d) Uploaded files could be formatted into a pdf document for final viewing, depending on the order of files uploaded
- e) e-mails could be generated to send the final pdf files for transmission to reviewers
- f) Reviewer should also be able to sign in the site, but access only to thoseMS assigned to him – The MS should be linked to / made available to the reviewer(s).
- g) The reviewer should be able to upload his/her comments to the site, and it should be accessible only to the Journal assigned members of the team.
- h) The Editorial office in IUCBR&SSH should be able to compile the reviews and contact the authors, with ease.
(Points a' – h' may be discussed for more clarity prior to the pre-presentation of the offer/design of the webpage.

Please see Annexure-1, 2, 3 and 4 for more details about website

11. Sub-letting of Work:

The contractor shall not assign, transfer or sublet or attempt to assign, transfer or sublet, whether wholly or in part, any portion of the work to any other entity.

12. Terms and Conditions

- a) The amount **should be quoted inclusive of all taxes, training, maintenance, updating & installation charges.**
- b) The content development for website and digitizing the same in Malayalam Unicode is the responsibility of the EOI submitting agency. The draft content in English and images may be provided from IUCBR.
- c) It is the responsibility of the EOI submitting agency to take approval from the Website committee, before publishing the same in the website.
- d) The Director, IUCBR reserves the right to accept or reject any or all EOI without assigning any reasons.
- e) The EOI should include Company Profile, Company's years of experience, Company experience in conducting similar projects especially in website design and development.
- f) The EOI submitting agency should submit the reference of previous similar work executed including copy of work orders received.
- g) The EOI submitting agency should submit organization chart and list of team members along with their specialization.
- h) The EOI submitting agency should provide satisfactory evidence, acceptable to the Website committee of IUCBR to show that he has efficient technology, adequate capability, technical know-how and experience of design & development of website for reputed organizations.
- i) The interested firms can go through the existing IUCBR Website (<http://www.iucbr.ac.in>) and estimate the variety and quantum of information that needs to be available on the website. The Firms interested in participating submission of an EOI, shall demonstrate a pre-presentation of the innovative web-site design and plan at IUCBR&SSH, in front of the webpage committee, in confidence, so that the bidders could prepare the best suited plan for the institute, with the input from the committee.
- j) The bidder must have experience of creating and managing quality websites, preferably Open source Web Content Management System based websites of large Institutions/ companies. Documentary evidence by way of completion certificate should be produced in support of experience and performance clearly mentioning use Web CMS Tools. The details of previous experiences of similar works executed may be submitted in the following format:

Sl. No.	Work/ Service details	Name of the organization	Value in Rs.
1			
2			
3			

- k) The successful Bidder will be required start the work immediately upon receipt of work order, and submit progress report of the work done regularly to the Director/ System Manager.

- l) All disputes arising out of or in any way connected with this contract will be in the jurisdiction of the Court in Kottayam.
- m) The agency shall not disclose to any one, any information marked as confidential and communicated or made available or accessible by the agency during execution of the work, and thereafter.
- n) The Website will be under the maintenance of the bidder for a period for one year from the date of launching the website.
- o) IUCBR reserves the right to amend/append/cancel any requirement during the period of preparation and hoisting the webpage
- p) For any clarification, please e-mail at iucbr@mgu.ac.in or iucbrply@gmail.com
- q) The rate should be quoted in the following format.

Sl. No.	Item	Amount in Rs.
01	Design (including template charges) and Development of the website	
02	English Content Development, digitizing in Unicode and proof reading	
03	Training for Managing and Administering the Website (for 2 staff)	
04	Testing and commissioning of the website	
05	Charges for maintenance of the website for the first year, and the subsequent 5 years; yearwise	
(Total Amount in Words: Rupees.....only.)		

Eligibility Criterion

- 1) The firm should be Public/Private Limited
- 2) More than 10 years of existence in India in this business is required
- 3) At least two RFID LMS work should have been successfully executed during the past 5 years (certificate needed)
- 4) At least three LMS implementation should be done in Govt. Institutions.
- 5) Firm should have local office in Kottayam with at least 3 three supporting/Service engineers
- 6) Minimum ten reputed Institutions as clients and at least one should be a University/Large Educational institution as client
- 7) Minimum five Educational Institution's Website should be done with CMS
- 8) At least one or more LMS work with more than one Lakh books.
- 9) All the RFID items should be supplied within thirty days after purchase order.
- 10) Self-Declaration Letter for 'not being blacklisted' anytime in its existence.

The envelopes containing the EOI should bear the superscription "**EOI for Design, Development, Testing and Commissioning of official website of IUCBR&SSH (Revamping an existing website)**" and should be addressed to **Director, IUCBR, Rubber Board (PO), Thalappady, Puthuppally, Kottayam, Kerala 686009, India**. Intending EOI, may submit the EOI on their own official stationery.

Please see Annexure-5, 6, 7, 8, 9 and 10 for more details about HF RFID Library

Please see Annexure-11 for more details about HF RFID Lab Equipment for Stock Management

The prospective bidders should give a 10-min Presentation on 10/08/2017 at IUCBR & SSH to the Director of the sample website (template) to be formulated under this request for EOI. Last date for receipt of EOI is 18/08/2017 at 4.00 PM. Late EOI will not be accepted. The EOI will be opened at 11.00 AM on 19/08/2017 in the presence of authorized representatives who are present at that time.

Details of the requirements and the conditions governing their supply can be obtained free on request from IUCBR & SSH, Thalappady till 18/08/2017, 11.00 AM.

Place : Thalappady

Sd/-

Date : 03.08.2017

Director

Annexure-1: Faculty Profile

Name of the Faculty (Mandatory)	Photo
Designation (Mandatory)	
Email address: Official (Mandatory) Other email (optional)	
Phone number: Office (Mandatory) Personal (optional)	
Qualifications (Mandatory)	
Experience (Mandatory) (In reverse chronological order)	
Research interest & Projects being handled	
Areas of past interest (Mandatory) Areas of Current interest (Mandatory)	
Social networking/Blogs/Personal WebPages (optional)	
Publications (Mandatory) (Last five years, to be linked to a databank on complete publication list) (Style should be uniform, say Vancouver style, as it appears in Pubmed). In reverse chronological order.	
Books published	
Research projects (Mandatory if present) details	
Name of the project:	
Principal investigator:	
Co-investigator:	
Funding agencies:	
Brief overview (in maximum of 200 words)	

Annexure-2: Department Profile

1. Name of the Department	
2. Head of the Department (Name, Designation, Qualification, Contact No, Email and PP size Photo)	
3. Brief Description about the Department	
4. High lights (Point wise)	
5. Divisions under Department (for each divisions)	5.1a) Name of the Division
	5.2a) Division In charge (Name, Designation, Qualification, Contact No, Email and PP size Photo)
	5.3a) Brief description about the divisions
	5.4a) Facilities available
	5.5a) Faculties & Staff (Brief profile with PP size photo)
6. Research Projects	6.1) Name and short description of Ongoing Projects
	6.2) Name and short description of Completed Projects
7. Achievements and Facilities available	
8. Inpatient/Outpatient, Diagnostic and Therapeutic Services provided	
9. Seminar/Workshops/Conferences/ Training organized	
10. The current and future visions of the divisions under department	
11. Suggestions to improve the website	

Annexure-3: Draft menu of the website

Menu	Description	
About IUCBR	About us	
	Mission,	
	Vision	
	Quality Standards	
	Chairman's Message	
	Director's Message	
	Organizational Structure	
	Administrative bodies	
	Clinical/Statistics	
Contact Us	Contact	
	Directory	
	Locate a Staff Member	
	Emergency	
	Enquiry	
	Location Map	
	Our Doctors	
	Departments	Brief Description about the Department
		Head of the Department
High lights (Point wise)		
Divisions under Department		
Achievements and Facilities available		
Seminar/Workshops/Conferences/ Training organized		
Inpatient/Outpatient, Diagnostic and Therapeutic Services		
The current and future visions of the divisions under		
Faculties and staff		
Salary slip		
Proceedings and Circular		
Online Certificate Verification (Experience & Academic)		
Online monthly Report Submission		
Patient Welfare		Introduction
		Financial Assistant Schemes
	Criteria for schemes	
	Patient welfare fund	
	Free food, General library, transport facility	
	Make an appointment	
	Online Registration	
Make a Gift	Online facility	
	To Poor patient welfare fund	
	To fund	
	To Academic fund	
News and Events	News	
	Events Calendar	
	Media Scan	
Research	Introduction	

	Clinical Trials
	Protocol Guidelines
	Ongoing Projects
	Papers
	Research Collaboration
Publications	Annual Report
	Project progress report
	Research Publications
	Books
Academic Activities	Courses
	Seminars/Workshops/Conferences
Gallery	Photo
	Video
	Poster
	Virtual Tour
Downloads	Circular
	Notifications
Career	Notifications
	Online Career Applications
	Back –End for managing applications
Right to Information	RTI
	Applications Received/Responses provided
Tender	Tender
	Quotations
	Expression of Interest
	e-Tender
Library	Introduction
	Books availability
	Online Journals
Placement Cell	Introduction
	Online placement portal
Citizen Charter	
Donate Blood	
Platelet Donor Registry for IUCBR	Online Enrolment and Management
Search	
Useful Links	
Employee Login	
Mail-Employee	
Scrolling News	
Impressions	
Hit Counter	
Sitemap	
Disclaimer	
Copy Right	

ANNEXURE-4: TEST REGISTRATION FORM FOR REGISTER WITH IUCBR

APHERESIS REGISTRATION FORM

Full Name:	
Age:	
Sex:	
Blood Group:	
Height:	
Weight:	
Mobile Number:	
E-mail (if any)	
Residential Address:	
Suitable Time (Between 9AM to 4 PM):	

ANNEXURE-5: HF RFID HAND HELD READER PDA

Wi-Fi RFID Handheld Reader for Shelf Management System with touch screen and 4hours supported in built battery

Specification

RFID	
Type	Long Range HF Handheld Reader DL730Plus
Operating Frequency	HF(High Frequency) - 13.56MHz
Protocol	ISO15693 (Other on request)
Reading Range	2 ~ 40cm (tag and environment dependent)
Antenna Polarization	Integrated
SDK	Free SDK provided attached to the Reader
System features	
Operating system	Microsoft® Windows CE® 5.0 Professional
Processor	Samsung Processor 400MHz
Memory	
Memory	128MB SDRAM
Flash memory	128MB Flash ROM
Audio, Slots, and Ports	
USB Ports	1 USB Interface
Slots	1 TF Slot
Input/Output devices	
Input devices	QWERTY keyboard, Touch screen, stylus, Trigger Button
Output devices	3.5" Transmissive LCD, 320 x 240 pixels, LED x 2, Buzzer
Communication features	
WiFi	802.11b/g
GPRS (GSM)	Integrated
Product specifications	
Dimensions (w x d x h)	186 x 75 x 31 mm (w x d x h)
Weight	400g
Energy Efficiency	
Battery	Removable, rechargeable 4400 mAh battery
Power supply	AC Adapter

Annexure-6: HF RFID Chip Labels

HF RFID Label (50 x 50cm Size) 13.56 MHz.

Specification of HF RFID 13.56MHz.

- 1) Type: Contactless Read & Write
- 2) Operating Frequency: 13.56MHz
- 3) Compliance: ISO/IEC 14443A or ISO/IEC 14443B or ISO/IEC 15693 ISO/IEC 15693/18000-3
- 4) Material: Paper
- 5) Physical Size: 50mm*50mm
- 6) Thickness: 0.5mm~0.7mm
- 7) Printing: Printable with silkscreen, a customized logo can be printed on the tag
- 8) Operating Temperature: -10° C to +50° C
- 9) Storage Temperature: -20° C to +70° C
- 10) Chip I-Code Six 2
- 11) Chip overlapping cover should be tamper proof with logo
- 12) Chip should be EAS enabled for Gate reader

Annexure-7: HF RFID Chip Labels

- Library Book Search KIOSK
- Book Self Check –in/out KIOSK Station
- 17” LCD touch screen
- RFID Card reader
- Integrated Book Drop Box
- Upto 50 books drop box facility
- Bin full indication and Shutter Lock facility
- 58mm USB Thermal printer for slip printing
- Automated SMS, email and Voice facility integrated
- Customised Slip Print for Self Check-out and Check-in
- Book Reservation Facility should be integrated with KIOSK
- Book renewals should be activated with Self KIOSK machine
- RFID Chip I-code Slix2 reading sensor should be integrated
- The reader should read HF 13.56Mhz Chip.

ANNEXURE-8: RFID SELF CHECK-IN/CHECK-OUT KIOSK WITH DROP BOX/SLIP PRINTER

- Long range RFID Reader and Antenna with multiple Read/Write facility
- Customizable kiosk shell to suit the library décor
- High Speed Kiosk Printer (on plain paper)
- LCD touch Screen Monitor (Antiglare, minimum 17")
- Branded /Reputed Small Factor CPU
- Receiving Cart (50 Books × 1 Nos.)
- Multi-protocol firmware ISO 15693, ISO 18000-3 and ISO 14443A/28560 compliant
- Communication interface –USB/Ethernet
- The Client software should interface with the LMS software giving following features

ANNEXURE-9: RFID STAFF STATION WITH READ/WRITE AND REGISTRATION

Multi- Purpose RFID Staff Station

- Library staff station with the following specifications
- Should interface with KOHA Open Source LMS(Library Management Software)
- It should be small in size and economic so as to use it in any library desktop configuration (table top or underneath table)
- Read/Write/Anti-theft programming should be done in one single operation
- Read /Write distance of around 20-30 Cms
- Should be ISO 14443A compliant
- The programming station should interface with the KOHA Library Management Software using NCIP V2.0/SIP2

Reader Specifications

- Operating Frequency 13.56 MHz
- Chip Compatibility ISO 15693 ISO 18000-3/14443A/28560
- RF Channels 1
- RF Output Power 1W
- General Purpose Input / Output (IO) 1 input and 1 output
- Power Supply 12 Volts DC
- Communication interface RS232/USB/Ethernet
- Antenna Specifications
- Operating Frequency Reader Compatibility 13.56 MHz
- RF Input Power 1-1.2W
- Operating Temperature 0° to 55°C (32° to 131°F)
- Storage Temperature Upto to 60°C

Annexure-10: LMS with HF RFID (13.56)

Library Management System – [LMS]

HF RFID with Kiosk Unit and Self Check-in/Check-out options & Stock Reader.

LMS should keep International Library standards

The International Standard **ISO-2709: 1981** describes a generalized structure, a framework designed specially for communications between information processing systems. It specifies the requirements for a generalized exchange format which will hold records describing all related records such as authority records, etc.

The collection data should keep the ISO-2709: 1981 recommended data representation for the data fields which further subdivided into sub fields to provide related details.

LMS should be developed according to the **CCF (Common Communication Format)**.

The CCF was developed in order to facilitate the exchange of bibliography data between organizations. LMS should be followed the basic principles of CCF it kept the design as per.

- The structure of the new format conforms to the international standard ISO 2709
- The core record consists of a small number of mandatory data elements essential to bibliography description, identified in a standard manner
- Catalogue creation and Exporting
- Circulation
- Dewey Decimal Classification
- Acquisition
- Check-in/check-out with Patron Photo and history
- MARC21 format supported
- Z39.50 supported
- Automated Data fetching from Online catalogue
- Email and SMS
- RSS Feed
- Book users reviews
- Suggest a book
- No Due Certificate
- Web OPAC
- Facility of multimedia files.
- Braille Collections
- Thesis
- Periodicals
- Journals
- Bound Journals
- Proceedings
- CD Collections
- Projects
- Articles
- Books Lending
- Book Bank
- Top issued books list with book review and cover page upto 10 title
- Top used subjects listing
- Top books taken Members Photo with books taken nos for upto 10 toppers
- While reading the barcode newly arrived book, all the data including cover page will be fetched into the LMS database automatically. It is including the subject headings and classification.
- The mandatory elements are augmented by additional optional data elements, identified in a standard manner, and

- A standard technique is used for accommodating levels, relationships, and links between bibliographic entities
- Tagging /Retagging after proper online validation of the title/member records in LMS database.
- Tag monitoring by accessing item record from LMS database.
- Sorting by accessing Title record from LMS
- Check out/Check in/Renewal
- Stock verification
- Provisions for display of member photograph along with member details while doing the transactions.
- Provision for display of reservations done by a member along with sequence and date of collection
- Provision for enquiry of checkouts against a member and its due date
- This facility is available on all transaction screens for reducing response time while presenting the details before the member
- Provisions for details of fine against a member along with fine receiving functionality
- Provision of slip printing (on plain paper) containing the details of a transaction
- Reserved titles get highlighted while check- in.