

## **Expression of Interest (EOI)**

### **1. INTRODUCTION:**

BU is the acronym of Barkatullah University, Bhopal, and is the University of Bhopal, Madhya Pradesh, which is responsible for affiliating institutes, admitting students, and conducting exams.

Expressions of Interest (EOI) are invited from companies for the purpose of developing and running the Secure System for Issuing/Generating Authorised Digital documents of Students (Mark sheets, Degrees, Provisionals, Migration, etc.) in a phase-wise manner which can be instantly generated and verifiable with the data and database approved and authorized by BU. The entire data, database, operation, and management should be carried out in a secure manner.

The EoI response should be submitted online as mentioned in the invitation notice published on the website <http://www.bubhopal.ac.in>. The EOI can be submitted to the mail id [eoiproposal@bubhopal.ac.in](mailto:eoiproposal@bubhopal.ac.in). However, the submission of a physical copy to the registrar of Barkatullah University is mandatory before the specified date and time.

### **2. Objective of the Project**

Recognizing the need of students for location-free, faster document issuance using the secure digital format approved and authorized by the BU, an expression of interest is invited for the generation and issuance of secure digital documents to its students.

### **3. Project- Required Solution**

**The proposed system shall focus on the following Problem areas:**

- Secure Digital Certificate Generation System.
- Securing database entries.
- Facility for Duplicate/Correction/Revoke of certificate.
- The proposed system must have a modular offering. A secure process must be provided by the proposed system, together with checks and balances.
- Verification cost and hindrances and dependency on the third party for verification set-up.
- Verification and validation.
- Authentication of information.
- Compliances as per IT Act.

#### **4. Scope of Work**

- Secure System for Issuing Secure Digital Certificates or Secure System for Generating Secure Digital Certificates.
- The proposed system should have a facility for BU authorized person to monitor and check random data accuracy. A secure process must be followed by the system, together with checks and balances.
- The proposal must include all necessary information on the planned system, Digital Secure Certificate Access System, and any infrastructure that the bidder is offering. The proposed solution should follow the standards accepted by the government for such solutions.
- The system that is being proposed should be able to issue duplicates, do corrections, and revoke certificates with the log and audit trails.
- The suggested system ought to have a reporting system that meets the necessary requirements.
- Integration of Certificate Pull System for students through DigiLocker with Secure Digital Certificate copy until contract period or further as determined by BU if required in the future.
- The Certificate copy must be the exact replica of the physical certificate issued by BU and support the bilingual format.
- Digital Secure Certificates may be accessed by authorized third parties of BU for verification.
- Capability to extend paid verification system for third parties.
- Data security in accordance with the IT Act for compliance and audit.
- One On-site manpower assistance. Minimum 1 and as required for the proposed system.

#### **5. Solution Workflow**

- Candidates are evaluated by the BU.
- Declared Result Student data access (only for the required role) will be provided to the selected agency in writing via the central server or via some alternative mechanism set by BU.
- The data upload/supply will be in Excel/access DB or from defined database access.
- Using this information, the deployed system will generate a Digital Secure Certificate in the format specified by BU and will secure database entry, as per IT Act. BU will provide the necessary templates to the selected agency.

- The BU-authorized person may check random data for accuracy.
- Required systems with specified configuration by the bidder will be provided by BU, Bidder will have to install the Application and other required hardware to successfully manage the proposed system.
- Internet connection with the necessary speed will be provided.
- Required paperwork to third parties will be provided by BU for the smooth running of the proposed system.
- Any organizational requirement for the proposed system will be provided by BU.

## **6. NON-FUNCTIONAL REQUIREMENTS**

The following list of non-functional project requirements is explained in this section.

- The solution will be a user-friendly, integrated, scalable, and modular system.
- Provision for Role-based access and function offering.
- The Digital Secure Certificate System will use cutting-edge, open-source technology is preferred.
- The system will have dashboards, which will facilitate working more quickly than currently possible.
- The solution will integrate many levels of protection throughout the IT platform's tiers and software layers.
- The system will handle multi-layer workflows with distinct actions for each level of the workflow.
- The system will enable standard API access to data for third parties in accordance with BU guidelines.
- The solution will make use of platforms and /or technology that allow desktop and online interfaces to be synchronised.
- During the term of the contract, the functionality in the modules will be customised and improved in accordance with BU requirements.
- Any more related BU functions not mentioned above.

## **7. Required Features of the proposed system**

- The proposed system will enable BU to generate an instant Digital Secure Certificate.

- Only an authorized format will be used to create and certify the generated document.
- Two-factor authentication (2FA) is BU's preferred method.
- The system will include all of the features and standards of a Digital Secure Certificate Management System. Authorized users can search, reissue, revoke, or edit documents as needed, and all actions taken on issued documents will be tracked for audit purposes.
- Any API support, if required.
- Online Verification feature.
- If Verification requires any paid hardware or software the bidder must include it in the offer.
- Fully secure cloud for data and database hosting.

## **8. Key points of required solution**

- Develop, operate, and manage the End-to-end Secure System for Issuing, Generating, and managing the Secure Digital Certificates approved and authorized by BU Bhopal.
- Security mechanism of the entire data and database system should be proposed by the agency and approved by BU Bhopal.
- BU-approved and authorized Secure Digital Certificate Verification System.
- Data security and audit trail in accordance with the compliances recommended in the IT Act / Government circular/notifications for such projects.
- The Certificate copy must be the exact replica of the physical certificate issued by BU and support bilingual format (excluding physical security features).

## **9. The proposed system shall focus on the following Problem areas**

- Facility of monitoring.
- Facility for Duplicate/Correction/Revoke of certificate.
- The proposed system must have a modular offering. A secure process must be provided by the proposed system, together with checks and balances.
- Minimising the Verification cost, hindrances, and Dependency on the third party for verification set-up. Here it is clarified that at any level third party-dependent system will not be accepted.

- Two level Authentication and authorization system of activities and information transactions.
- Capability to integrate with the existing systems.
- On-line payment-based verification system.

**10.Responsibility of agency.**

The EOI response document should include the following information in ENGLISH:

1. Details of the proposed solution, indicating all the features.
2. Technology details of the proposed system.
3. Data safety Methodology.
4. Technical Presentation.

The purpose of the EOI response is to evaluate the proposed Coverage of the scope to be covered in the requirement, Technology/Solution & its Architecture, Process/Methods & Project Execution, and Ease of use in terms of Vendor Capability & Experience.

**Note:** Please do not include financial bid figures/rates in the EOI Proposal; otherwise, the response stand disqualified.