



Myanmar Engineering Council Office

The Republic of the Union of Myanmar

Notice of Invitation to Tender No. MEngC/ ICT 001-19

Title: Supply Infrastructure of MEngC ICT System for Office Automation by Advance Technology

This notice of invitation launched by and according to the procedures of Myanmar Engineering Council (MEngC) for Information Technology Development Cooperation.

Identification

- (a) Title : Supply Infrastructure for Office Automation of MEngC
- (b) Reference No. : MEngC/ ICT 001-19
- (c) Types of Contract : Products and Technological Services

(d) **Earnest Money Deposit (EMD):** The bidders along with their bids shall have to deposit earnest money 50,000,000 MMK (Payment Order). Request for exemption of EMD will not be entertained, and bids submitted without the EMD will be rejected.

In case of unsuccessful bids, the EMD shall be discharged or returned to the unsuccessful bidder within 30 days after award of contract to non-awardees and a written request from the bidder for the refund. However, EMD of successful bidder shall be discharged or returned upon signing the contract with MEngC. MEngC shall not pay any interest on the EMD.

(e) **POC:** The bidders shall conduct Proof of Concept demonstration with Blockchain technology one week after submission of the proposal. Company Profile and strength for sustainability of the system and supports also need to be submitted.

(f) **Products**

The bidders shall provide the following Products to MEngC:

1. Myanmar Engineering Council Web Portal
2. Online Registration and Renewal with Payment Integration
3. Blockchain Based Certificates and Document Endorsement System
4. Learning Management System (LMS)
5. Cloud-based ERP System
6. Cloud-based HR System and Self-service Mobile App

(g) **Scope**

The bidders shall provide on the scope of the Products as below.

1. Myanmar Engineering Council Web Portal shall include
 - a. Enterprise Web Portal with SLA
 - i. MEngC Information (Home, About Us, Membership, Services, Resources, Announcement, Contact)
 - ii. User Management, data backups and site duplication
 - iii. Website security, availability for the response time and penalty on downtime

2. Online Registration and Renewal with Payment Integration
 - a. Myanmar Engineering Council's Online Registration
 - i. Registration and Renewal Process from online and back-office
 - ii. Registration with Payment Integration (CB Bank Payment)
 - b. RSS and News Feeds and Publications
 - c. Integrated with Proposed Backend Blockchain Certification System
 - d. Reports (for Member Expired or Active)
 - e. Registration Data Import
 - f. Mobile App for Members and Public

3. Blockchain Based Certificates and Document Endorsement System shall have the following features and characteristics that shall be provided by the bidders.
 - a. The bidders will provide the necessary infrastructure with no charge to MEngC.
 - b. Blockchain system shall get relevant data from Online Registration Portal and store in hyper-ledger system.
 - c. Mobile based application will be provided and application shall retrieve data from Blockchain to verify member's relevant information with data privacy, protection data security and IP rights. Verification can be done from anywhere that has internet connectivity.
 - d. Document Management
 - e. Blockchain in App (Private Consortium Blockchain with multiple nodes to store certifications and document endorsement transactions)
 - i. Registration data insert into the private consortium blockchain
 - ii. Services for Certification and Verification of hard copy secured certificate
 - iii. Data store in Private Consortium Blockchain (Self-Register, Profile, Document Endorsing, History)
 - f. Smart Contracts

4. Learning Management System (LMS)
 - a. Registration and Login Management
 - i. Learners, Instructors, Staff, Admins
 - b. Rich Courseware
 - i. Content Creation
 - ii. Learner Experience
 - Core Course Material
 - Assessments Discussion Boards
 - Wiki Pages Certification
 - c. Learning Analytics
 - i. Enrolment Stats
 - ii. Performance Breakdown
 - iii. Certification and Grading
 - d. User Management
 - i. User
 - ii. Role
 - iii. Access Right

5. Cloud-based ERP System (Enterprise Resource Planning, Business Process Management Software)
 - a. General Ledger
 - b. Cash Books
 - c. Inventory Management
 - d. Sales Module
 - e. Purchase Order Processing
 - f. Reports

6. Cloud-based HR System and Self-service Mobile App
 - a. Employee Information (Profile, Contact, Skill, Qualification, Experience)
 - b. History of Employee
 - c. Leave/Overtime/Claim
 - d. Order/Reservation
 - e. Reports
 - f. System Setup
 - g. Employee Self-service Mobile App

The bidders shall provide data migration from current database and excel if the information is available and relevant.

Duties and Responsibilities of MEngC

To be the flexible proposal, non-mandatory agreements and MEngC Executive Committee shall make decisions on the start of this new system, migration period, etc. For acceptance of the finished products or system, MEngC operating team has to make verification whether the complete state or not. MEngC operating team shall provide or explain the user requirements and the operation process flow to the bidders, also conduct regular monthly review with them and negotiate to amend changes as necessary.

Duties and Responsibilities of THE BIDDERS

The bidders shall provide the following;

- 1) The Products mentioned above
- 2) Data migration from current database and excel if the information is available and relevant
- 3) Administrator access to public website and registration portal
- 4) Hosting for public website and registration portal
- 5) Blockchain infrastructure
- 6) Online payment for registration portal
- 7) Online document submission and interview scheduling for new application on registration portal
- 8) Report generation from relevant stored information
- 9) Certificate Verification via Mobile Application and Online Portal
- 10) Necessary data and server security
- 11) Data redundancy and backup
- 12) Bug fixes and minor changes of public website
- 13) To operate with existing council infrastructure or proposed any more hardware requirements and estimated cost
- 14) Security proposal
- 15) Maintenance proposal
- 16) Proposed Public-private partnership (PPP) Model including:
 - i. Bidder Companies invest firstly and implement a regular revenue generating BIZ model
 - ii. Share revenue with MEngC
 - iii. Transfer the system to MEngC for a certain period of time

Eligibility and Evaluation Criteria

Origin : no restriction

Eligibility : The bidder companies satisfying the criteria included in the Statement of Contract Standing and the ethical clause of General Tender Rules and Regulations.

Evaluation : The lowest administratively compliant and substantially, technically, compliant tender will be granted the contract.

Variants : No variants will be considered.

Sites and deadlines

Location : No. 5A, Kha Yae Pin Road, Lanmadaw Township, Yangon

Terms and Place of delivery : No. 5A, Kha Yae Pin Road, Lanmadaw Township, Yangon

Performance Period of Installation : 3 months

Validity period of tender : 30 days from the time limit for receipt of tenders

Description for Pricing and Payment

(a) MEngC Web Portal, Online Registration and Renewal with Payment Integration

(Cost in USD)

- i. Opensource
- ii. Annual Maintenance Charges

(b) Blockchain Based Certificates and Document Endorsement System (Cost in USD)

- i. Setup Fees
- ii. Implementation
- iii. Development (BaaS)
- iv. Infrastructure
- v. Mobile App for Authentication Verification

(c) Learning Management System (LMS) (Cost in USD)

- i. Implementation and Development
- ii. Annual Maintenance Charges

(d) Cloud-based ERP System (Cost in USD)

- i. Implementation and Development
- ii. Annual Maintenance Charges

(e) Cloud-based HR System and Self-service Mobile App (Cost in USD)

- i. Implementation and Development
- ii. Annual Maintenance Charges

(f) Blockchain as a Service (Cost in MMK)

- i. Registration update (Per time)
- ii. New Registration (Per time)
- iii. Commercial Transaction (Stamp & Sign) (Per time)

Price validity: 2 years. Future rates to be negotiated every one year for the duration of this contract.

Language, currency, receipt and opening of tenders

Language : English
Currency : USD and/ or MMK
Address for receipt and opening : 1 Original and 2 copies to MEngC Headquarters
Deadline (Date & Time) for submission : 11th Feb 2019 at 17:00 (Office Time)

Payment

All eligible payments for additional charge if required, which are part of this contract, will be processed by MEngC.

Information Meeting and/ or Site Visit

No information meeting or site visit is scheduled.

Complementary or Additional Services

This contract does not include any complementary or additional acquisition of products or services in the project where complementary or additional acquisition of products or services would be required (initially not included), its value will be limited to a maximum of 50% of the initial value of the contract.

Additional Information

(a) Training

The bidders shall provide adequate training for one month to superiors, administrators, operating staffs and users, and also the on-site support for first three months after implementation free of charge on MEngC premises. Additional training if required, shall be additional charge.

(b) Ownership of Data

While the intellectual protection of the above mentioned systems will be the sole property of the bidders and its agents, the data that is generated and created will be the sole property of MEngC.

(c) Reciprocal Confidentiality

Both the bidders and MEngC agrees that any trade secrets, information, listings, data, databases, customer or supplier profiles, programs, source codes, documents, files, knowledge, processes, work flows, patents, copyrights, intellectual property, or items that is created or obtained during meetings, negotiations, installation, implementation or maintenance of the Products shall be kept Confidential and will not be disclosed to third parties.