

**Expression of Interest (EOI)**

**For**

**Software Testing, Professional Support  
and Audit**

**10<sup>th</sup> June, 2017**

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## INVITATION FOR EXPRESSION OF INTEREST

No. CDIT/7/EOI-SW-TEST&ADT/002/17-18

Dated 10.07.2017

Centre for Development of Imaging Technology (C-DIT) invites sealed Expression of Interest (EOI) from Firms/companies/ institutes/ organisations/ agencies for software application testing, professional support and audit.

The EOI Document containing the details of qualification criteria, submission requirement, brief objective & scope of work and evaluation criteria etc. can be downloaded from the website [www.cdit.org](http://www.cdit.org).

Last date for submission of EOI is on or before **17/07/2017, 12:00 PM**

Two sealed envelopes marked to the captioned address given below mentioning on the top cover,

- a. Part A - "EOI for Software Testing and Audit"
- b. Part B – "EOI for Professional support and Audit for CMO and CMDRF Applications"

"The Registrar, Centre for Development of Imaging Technology (C-DIT), Chithranjali Hills, Thiruvallom PO, Thiruvananthapuram, Kerala –695027"

Sd-  
Registrar, C-DIT

**Note:** C-DIT or any of its designates reserves the right to cancel this request for EOI and/or invite a fresh with or without amendments, without liability or any obligation for such request for EOI and without assigning any reason. Information provided at this stage is indicative and CDIT reserves the right to amend/add further details in the EOI.

## **Engagement of Firms/organizations/Institutions for conducting Software Application Testing, Professional Support and Audits**

EOI is invited from reputed agencies / organizations / institutions for software testing, professional support and audit for a software applications in various government sectors. These applications will be undertaken and implemented by C-DIT. The objectives and technical requirements are given below:-

### **Part – A**

**The Software Testing and audit shall be conducted as a part of an automation project in a government undertaking and shall include,**

- A. The approach must be as architecture assessment covering:**
  - 1. Business architecture/ framework**
    - i. Functional and Non-Functional Requirements**
  - 2. Current state architecture**
    - i. Application specific parameters**
    - ii. Database specific metrics and standards**
    - iii. Deployment architecture**
      - a) Exploring enterprise class operating system OE Linux in place of CentOS.**
      - b) Using Weblogic in place of Glassfish for better user session management and availability.**
      - c) Load balancing and clustering of application server so that more number of branches/ users can access the application.**
      - d) Use of appropriate storage engine and storage type.**
    - iv. Network considerations**
    - v. Application benchmark for performance**
- B. Root cause analysis of the issues in scalability of the application and its sustained performance.**
- C. Put in place a performance-profiling tool to profile statistics, analyze bottlenecks and suggest solutions.**
- D. Deploying appropriate test harnesses for real-time monitoring of application performance.**
- E. Proposing strategies for addressing the scalability and performance issues.**
- F. Recommendations and Reports**

## Part – B

Professional Support and audit for CM's Public Grievance Redressal Cell (CMO) and CM's Disaster Relief Fund (CMDRF) applications as a single portal for government as a whole.

- For migration for PHP code ignitor/ MySQL.
- To micro-service base using Java spring boot framework providing kernel layer services for integration adaptors, routing engine, transformation, etc.
- Establishing gateway API server using Apache camel spring container and spring MVC libraries through universally applicable API's
- Data bridge server for integrating multiple databases into data warehouse for centralised information gathering and reporting using Hibernate, Batch, etc.
- Integrated data analysis server and reporting tools.
- Front end UI development using Node JS, Advance JavaScript, Angular JS and JS PM, Gulps etc a browser package manager.
- Mongo DB as backend.

- A. Establishing overall delivery systems.
- B. Architecture Design support
- C. Migration strategy
- D. Scalability
- E. Software Audit
- F. Mentoring support for – training, hand-holding and support systems.
- G. CRM/ Call-centre integration and Skype integration.
- H. Task manager integration
- I. ISO 9000 implementation