

F.No.19(67)/2021-CCA  
Government of India  
**Office of Controller of Certifying Authorities (CCA)**  
Ministry of Electronics and Information Technology (MeitY)  
Electronics Niketan, 6, CGO Complex  
LodhiRoad, New Delhi -110 003

Dated:14<sup>th</sup> January, 2022

**Subject: -Expression of Interest (EoI) to call for technical solution towards migration / upgradation of existing infrastructure /solution design of Root Certifying Authority of India (RCAI).**

## 1. INTRODUCTION:

The Government of India enacted the Information Technology Act, 2000 for providing legal recognition to transactions carried out through electronic communications for e-Governance & e-Commerce. Under the Information Technology Act, 2000, the Office of CCA has been set up in the Ministry of Electronics and Information Technology (MeitY) with the objective of promoting trust in the electronic environment.

Office of CCA intends to call for feasible & suitable technical solution towards understanding the various solutions available for migration / upgradation of existing infrastructure /solution design of Root Certifying Authority of India (RCAI). Office of CCA operates RCAI through its primary site at New Delhi & secondary site at Bangalore. The proposed upgradation may include change of hardware, software, procedure & policy in the existing RCAI infrastructure including infra of OCSP services as per functional requirement specified in this document. All the proposed activities has to be done in compliance to the provisions of IT Act 2000 and WebTrust audit criteria's.

In this context, sealed technical offers in single part are invited from interested and eligible parties meeting the pre-qualification and other terms & conditions as specified in the below clauses. The received offers will be evaluated by a technical committee of O/o CCA and the qualified parties will be shortlisted for stage II process. The sealed technical offers should be submitted to below mentioned address as per the schedule of dates specified in this document.

**Director (F&A)**

Office of Controller of Certifying Authorities (CCA)  
Ministry of Electronics and Information Technology (MeitY)  
Government of India,  
Room No. 2053,  
Electronics Niketan, 6, CGO Complex, Lodi Road, New Delhi -110 003.

**2. SCHEDULE OF DATES**

S. No.	Activity Description	Date & Time
1.	Date of Publishing / uploading on to Website.	Date: 14.01.2022
2.	Vendor Meet	Date: 25.01.2022 Venue: (online) Prospective bidder(s), who wish to join the vendor meet are required to send a confirmation email (atleast one day in advance) to <a href="mailto:barman.dk@cca.gov.in">barman.dk@cca.gov.in</a> & <a href="mailto:rpp.pandey@cca.gov.in">rpp.pandey@cca.gov.in</a> for getting the web link for the meet.
3.	Receipt of offer	Date & Time: 07.02.2022 upto 3:00 PM
4.	Opening of offer	Date & Time: 07.02.2022 at 3:30 PM

**3. PRE-QUALIFICATION CRITERIA:**

To participate in the EoI, the bidder should have the following Pre-qualifications:

S.No.	Basic Description	Qualifying Criteria	Mandatory documents to be submitted as evidence for the Qualifying criteria
1.	ISO Certificate	The bidder should have ISO 9001:2008 or equivalent and ISO 27001 or equivalent quality certification against each of them.	• Bidder should attach the relevant documentary proof.
2.	Status of the Bidder/Entity	The bidder should be a Company registered in India under the Indian Companies Act 2013 or a partnership firm registered under the India Partnership Act 1932 or a limited liability partnership firm registered under Limited Liability Partnership Act 2008 or a Society constituted by any ministry/Department of the Government of India and registered under the Societies Registration Act 1860 with their registered office in India for the last five years as on the date of bid	• Copy of valid Certificate of Registration attested by Company Secretary/ Authorized Signatory should be submitted by the bidders.

		submission.	
3.	Turnover of the Bidder	The Bidder should have an Average annual turnover of INR 50 Crores during the last 3 financial years ending 31st March, 2021.	<ul style="list-style-type: none"> <li>Attested copies of the bidders' audited annual reports/ financial statement for each of the three financial years have to be attached along with a certificate from a practicing Chartered Accountant on his letter head confirming annual turnover &amp; average annual turnover during these years.</li> </ul>
4.	Experience in IT/ITES	<p>The Bidder should have been in the business of ICT infrastructure implementation and integration related activities for at least past 5 years.</p> <p>The bidder must have a proven track record for the capability for Supply, Installation, Testing &amp; commissioning of ICT project and with an order of value not less than 30 crores &amp; two orders of value not less than 15 crores in the last 5 financial years.</p>	<ul style="list-style-type: none"> <li>The Bidder shall submit the declaration duly signed and stamped by Bidder's authorized signatory regarding these along with the documentary proofs in the bid. Copy of purchase orders should be submitted as a proof.</li> </ul>
5	Similar Experience	<p>Bidder should have the experience of successfully executing similar projects of value not less than: one project of value not less than 8 crores OR two projects of value not less than 5 crores each OR three project of value not less than 3 crores each.</p> <p><b>Definition of similar project:</b> Supply, installation, commissioning of projects related to Public Key Infrastructure, Cloud based delivery of services, Data Centre operations or Network establishment (Campus Area Network/ Local Area Network including Radio Network). The projects may include turnkey implementation or consultancy work.</p>	<ul style="list-style-type: none"> <li>Attested copies of work /purchase order along with its corresponding successful completion certificates issued under the seal &amp; signature of the customer should be submitted.</li> </ul>

6.	Financial Status of the Bidder	The Bidder should be profit making company in last financial years with positive net worth.	<ul style="list-style-type: none"> <li>• Attested copies of Audited Profit and Loss Statement and Balance Sheet of relevant years should be submitted.</li> <li>• Attested copies of Annual report of the bidder containing financial statement (Profit and Loss Statement and Balance Sheet) should be submitted as part of the bid along with a certificate from a Practicing Chartered Accountant on his letter head confirming the net-profit &amp; net-worth of bidder in the last financial year.</li> </ul>
7.	Statutory Requirement	The bidder should have a valid Service Tax Registration and should have the Income Tax returns as per requirements. PAN card is a must and should be attached with the Bid.	<ul style="list-style-type: none"> <li>• Copy of Service Tax Registration.</li> <li>• Income Tax returns for last 3 financial years (till 2020-21).</li> <li>• Statutory Audit report from CA for last three financial yearstill ending 31<sup>st</sup> March 2021).</li> <li>• Copy of PAN card should be submitted.</li> </ul>
8.	Non-Blacklisting	The bidder should not have been barred or black-listed by any of the departments/organizations/PSUs of the central/state govt. on the date of bid submission.	<ul style="list-style-type: none"> <li>• A self-declaration certificate from the authorized signatory should be submitted.</li> </ul>
9.	Local Office	The Bidder should have an office in the Delhi state/ NCR with support centers manned with their own qualified engineers in Delhi & Bangalore with a Toll Free number to provide support services for the faulty systems/subsystem.	<ul style="list-style-type: none"> <li>• Documentary proof along with undertaking to this effect should be submitted.</li> </ul>
10.	Expert Manpower	Bidder should have at least 10+ PKI Experts on his strength.	<ul style="list-style-type: none"> <li>• Details of manpower to be furnished.</li> </ul>
11.	End-of-sale” and “End-of-upport	The products being quoted as part of solution by the bidder should not have been declared as at “end-of-sale” and “end-of-support” by the respective OEM/manufacturer. Undertaking to this effect must be submitted from OEM. The bidder should also submit valid letter from	<ul style="list-style-type: none"> <li>• Undertaking from OEMs under their seal &amp; signature to be submitted.</li> </ul>

		the OEMs confirming following: Undertake that the support including spares, patches, upgrades, updates, etc. for the quoted products/software shall be available for next 5years from the date of submitted proposal to O/o CCA.	
12.	Offered Product OEM	The bidder is allowed to offer products from only ONE OEM against each item proposed in their bill of material. Options of multiple OEM products against any item should not be quoted and such offers shall be rejected out rightly.	<ul style="list-style-type: none"> <li>• An undertaking to this effect must be submitted by the bidder.</li> </ul>
13.	Inter-operability of Component	All offered products, softwares & components should support seamless inter-operability among them based on ITU/IEEE standards, <b>wherever applicable.</b>	<ul style="list-style-type: none"> <li>• An undertaking to this effect must be submitted by the bidder.</li> </ul>
14.	Non-Conflict of Interest	Bidder (as a legal entity) must not be a licensed Certifying Authority as on date of submitting the offer and should not be in process of acquiring CA license.	<ul style="list-style-type: none"> <li>• An undertaking to this effect must be submitted by the bidder.</li> </ul>
15	Non-Disclosure Agreement	The shortlisted bidders should sign a non-disclosure agreement as per requirement of O/o CCA.	<ul style="list-style-type: none"> <li>• An undertaking to this effect must be submitted by the bidder.</li> </ul>
16.	Compliance	Bidder should submit the unconditional compliance of all terms & conditions of EoI.	<ul style="list-style-type: none"> <li>• An undertaking to this effect must be submitted by the bidder.</li> </ul>
17.	Purchase Preference to MAKE in INDIA	As per GOI Order No. P-45021/2/2017-PP(BE-II), dated 16-09-2020 for promoting Make in India, if local capacity exist, bidder has to quote for products considering source of origin as India. Also the solution quoted by the bidder should comply to the requirement as per O.M dt. 06.12.2019 issued by MeitY, GoI in respect of procurement of cyber security product.	<ul style="list-style-type: none"> <li>• Undertaking for Purchase Preference to MAKE in INDIA to be submitted.</li> <li>• Should submit Local Content Calculation Sheet.</li> </ul>
18.	OEM Capabilities	The solution offered by the bidder should be of reputed OEM and must have substantial installation based in India particularly the major component OEM's i.e server and CA software OEM must have at least two successful deployments in any CA /CCA setup.	<ul style="list-style-type: none"> <li>• Documentary proof from OEM along with undertaking to this effect should be submitted.</li> </ul>

#### 4. EXISTING SETUP:

- Root Certifying Authority of India is the apex authority in India for establishing the trust chain hierarchy in the PKI based Digital Signature Certificate system and being established by

O/o CCA under the provisions as laid down in the IT Act 2000 for the purpose of generating a self-signed certificate and further signing of CA certificates licensed by O/o CCA.

- The primary site (DC) of the Root Certifying Authority of India (RCAI) is hosted at Electronics Niketan, 6, CGO Complex, Lodhi Road, New Delhi and the secondary site of RCAI is hosted at C-DAC, Bangalore for Disaster Recovery (DR) operations. Both the sites are synchronized all the time.
- The existing ICT infra includes High End Servers for production & staging environment, CA software (limited modules as per the requirement of RCAI operations), biometric based access control system for strong room, CCTV, UPS with battery backup (20 KVA in 1+1), managed switch for RCAI infra LAN, passive components of network. The indicative details are below:
  - RCAI infra is not connected with any type of external network.
  - High end servers with two identical set up i.e one at main site and other at DR site, also have one test setup.
  - Each setup consists of two servers and one workstation interconnected with local LAN.
  - The existing CA software is Nexus Certificate Manager.
  - Nexus CA software supports CA certification, user certificate.
  - One PCI based nCipher solo 500 HSM in each set up and one reserve at each location.
  - HSM, HDD & media etc. are not allowed to take out once used for operations.
  - Operations is being done under compliance of IT Act, 2000 and various Rules, Regulations & Guidelines issued by CCA.
  - Annual audit is being done as per published audit criteria of O/o CCA.
  - The complete set-up has been optimized for role wise operation.
  - Present certificate volume: maximum 1000.
  - The OCSP services as part of RCAI operations is running through an outsourced operation by a licensed CA.

## 5. THE OFFERED SOLUTION SHOULD INCLUDE THE FOLLOWING:

- Suggesting the best set of practices and process flow for complete set of RCAI operational activities in full compliance to all the applicable provisions of IT Act 2000 and also taking into consideration the requirement of web trust audit.
- Suggesting the web Trust compliant solution architecture for complete RCAI operation to obtain a seal of WebTrust / EV-WebTrust from the certified firm / practitioner / accountant who are licensed by AICPA/CICA.
- Offering the state-of-art bill of material including hardware, operating software, application software (including various modules as per operational requirement of RCAI), access control system, CCTV, etc with exact make & model.
- Submitting the generic level function & technical specifications of the offered bill of material.
- To submit complete solution including detailed bill of material for hosting the OCSP services under RCAI operations. OCSP infra should also be taken into consideration for web trust audit process.

- To submit the complete process towards migration of existing Keys, Root/CA certificates and audit records in HSM and related hardware including availability of system logs & event correlation.
- To submit a detailed report on risk assessment of migration activity along with its mitigations & contingencies available in the system.
- To submit solution for RCAI facility (DC & DR) surveillance/security solutions as per the WebTrust Audit.
- Provide solution i.e the procedure / policy / Infra to establish the trusted Registry Service for Long term preservation of Government transactions the edges of O/o CCA. (brief as below under Note head).
- To suggest processes for enabling CCA root to be placed in all the major browsers.
- To submit a concept document on compliances requirement with the latest version of the Guidelines for the Issuance and Management of Extended Validation Certificates.
- Detailed bar chart depicting the time schedule for indicating the start and end time of individual activities being identified by the bidder in the complete process.

**Note:**

- i. For the purpose of understanding the existing service requirement, the prospective bidders may visit primary and secondary sites hosted at Electronics Niketan, 6, CGO Complex, Lodhi Road, New Delhi and C-DAC office campus, Bangalore by giving a notice of at least three days in advance. Formal Communication to this effect may be made, indicating names (maximum of 3 personnel) and designation of the personnel intending to visit. Personnel intending to visit should carry valid ID proof for verifying their identities.
- ii. The proposed Root CA application software should provide all the modules from key life cycle management to CCA/CAs certificates lifecycle management like creation, suspension, revocation etc. and should also cater the requirements as specified by CCA from time to time.
- iii. The proposed solution should also meet the requirements mentioned under the IT Act, Rules (Schedule II & Schedule III), regulation and standards and also web trust audit requirements.
- iv. A digital transaction which takes place between two or multiple parties, shall get registered along with timestamp of time-stamping service, online verification of validity of digital certificate through OCSP Service of a licensed CA. This registry will store the following; public key Certificate, hash of transaction, transacting party details, time stamp with certificate & OCSP return validity message. The registry will not store the actual document/transaction, but shall store the transaction details (number & reference) received from the incoming request. It will on completion of transaction return an acknowledgement receipt along with number. The registry shall ensure or device a method to ensure long term preservation of these records generated and shall do periodic signing of these records to authenticate long terms validity & integrity of records. These

records shall be made available as and when required to support & validate the actual transaction. Instances of this registry can be run for property, banking, & e-gov related projects. The record available in the registry can be accessed by these applications viz. Property Registrar or bank using the reference/ transaction ID submitted by them initially or through the acknowledgement number issued by the registry. Registry shall follow the Government of India policy of open standards & shall be technology neutral.

## 6. General terms & Conditions

- During any stage of verification / evaluation / assessment, if in case any information (including any document furnished by the bidder(s)) is found to be forged/ false, their bid may be summarily rejected, action shall be taken against them as per the provisions and no correspondence on the same shall be entertained.
- While submitting & presenting the solution, bidder should be very careful regarding proposing a migration plan so as to ensure smooth rollover including migration of CRL, etc. from the existing RCAI setup with least disruption of services.

## 7. BID SECURITY (EARNEST MONEY DEPOSIT)

The bidders shall sign a Bid Security Declaration (as per format given in EoI) accepting that if they withdraw or modify their offer during the period of validity etc., they will be suspended for the time specified in the EOI document. Offers received without Bid Security Declaration form shall be summarily rejected.

## 8. EVALUATION PROCEDURES:

Following procedure shall be adopted in evaluating the offers:

1. The evaluation process for this EoI as proposed to be adopted by the O/o CCA through its evaluation committee is indicative only and is to provide the bidders an idea of the evaluation process that the O/o CCA may adopt. However, the O/o CCA reserves the right to modify the evaluation process at any time during the EoI process, without assigning any reason, whatsoever, and without any requirement of intimating the bidders of any such change.
2. When necessary, during the evaluation process, the evaluation committee may seek clarifications on documents submitted in their respective offers or ask the bidders to make Technical presentations/demonstrations/PoC on any aspect, from any or all the bidders. However, that would not entitle the bidder to change or cause any change in the substance of the offer submitted.
3. In stage I of evaluation, a duly constituted Evaluation Committee will shortlist eligible bidders on the basis of evaluation of pre-qualification criteria. The offers conforming to the pre-qualification criteria will only be considered for further evaluation.
4. In stage II of evaluation, the technical offer will be analysed and evaluated by the evaluation committee based on operational requirement of RCAI and further bidders may be asked to present their respective solutions along with detailed migration plan.



5. Based on the evaluation of stage I & II, the bidders will be shortlisted for next stage i.e the RFP stage which will be executed in due course of time.
6. As the outcome of this process, O/o CCA will come up with a detailed RFP towards supply, installation and commissioning of the hardware & software for migration / upgradation of RCAI facility at primary & secondary sites. The proposed RFP will have two-part bidding system seeking sealed technical and financial bids and will only be circulated amongst the shortlisted bidders of this EoI process. i.e only the shortlisted bidders of this stage will be allowed to participate in the next stage i.e the RFP stage.

**9. FOR MORE DETAILS,& ANY OTHER CLARIFICATION, PLEASE CONTACT THE FOLLOWING OFFICIALS:**

1. Shri Dilip Kumar Barman, Assistant Controller (Technology),  
Tel/Mob. 011-24301514 / +91-9625415306  
Email: [barman.dk@cca.gov.in](mailto:barman.dk@cca.gov.in)  
Office of Controller of Certifying Authorities (CCA)  
Ministry of Electronics and Information Technology (MeitY)  
Government of India,  
Electronics Niketan, 6, CGO Complex,  
Lodhi Road, New Delhi -110 003
2. Shri R.P.Pandey, Scientist 'E' & AFA, Tel. No. 011-24301255  
Email: [rpp.pandey@cca.gov.in](mailto:rpp.pandey@cca.gov.in)  
Office of Controller of Certifying Authorities (CCA)  
Ministry of Electronics and Information Technology (MeitY)  
Government of India,  
Electronics Niketan, 6, CGO Complex,  
Lodhi Road, New Delhi -110 003

\*\*\*\*\*

**Annexure-A****Bid Securing Declaration Form**

EoI No. \_\_\_\_\_

Date: \_\_\_\_\_

To,

**Director (F&A)**  
Office of Controller of Certifying Authorities (CCA)  
Ministry of Electronics and Information Technology (MeitY)  
Government of India,  
New Delhi

I/We. The undersigned, declare that:

I/We understand that, according to your conditions, offer must be supported by a Bid Securing Declaration.

I/We accept that I/We may be disqualified from bidding for any contract **with you for a period of five year from the date of notification**, if I am /We are in a breach of any obligation under the bid conditions, because I/We:

- a) have withdrawn/modified/amended, impairs or derogates from the EoI, my/our offer during the period of bid validity specified in the form of offer; or
- b) having been notified of the acceptance of our offer by the purchaser during the period of bid validity (i) fail or reuse to execute the contract, if required, or (ii) fail or refuse to furnish the Security deposit, in accordance with the requirements of the EoI.

I/We understand this Bid Securing Declaration shall cease to be valid if I am/we are not the successful bidder, upon the earlier of (i) the receipt of your notification of the name of the shortlisted Bidder; or (ii) thirty days after the expiration of the validity of my/our Bid.

Signed: (insert signature of person whose name and capacity are shown)  
in the capacity of (insert legal capacity of person signing the Bid Securing Declaration)

**Name:**(insert complete name of person signing he Bid SecuringDeclaration) Duly authorized to sign the bid for an on behalf of (insert complete name ofBidder)

Dated on \_\_\_\_\_ dayof\_\_\_\_\_ (insert date of signing)

**Corporate Seal** (where appropriate)