

F. No. CCA/DC(T)/2012-03  
Government of India  
MINISTRY OF COMMUNICATIONS & INFORMATION TECHNOLOGY  
DEPARTMENT OF ELECTRONICS & INFORMATION TECHNOLOGY  
OFFICE OF CONTROLLER OF CERTIFYING AUTHORITIES (CCA)  
Electronics Niketan, 6, CGO Complex, Lodhi Road,  
New Delhi -110003.

Tender Inquiry No. F. No. CCA/DC(T)/2012-03

**SHORT TERM TENDER NOTICE**

CCA licenses Certifying Authorities (CA) to issue Digital Signature Certificates under the IT Act, 2000. Office of CCA proposes to implement Online Certificate Status Protocol (OCSP) service for checking revocation status of CA certificates issued by CCA to licensed CAs.

Sealed tenders are invited from reputed suppliers of cryptographic Hardware Security Module (HSM) & Online Certificate Status Protocol (OCSP) Software for providing OCSP solution integrated with HSM to launch the OCSP service.

The last date for receiving tenders is 30 days from the date of publication of this advertisement. The detailed terms & conditions may be downloaded from the website of CCA (<http://cca.gov.in>). Any further notification in this regard will be made available **only** on the website [cca.gov.in](http://cca.gov.in).

Sd/- (Col R.M, Joshi)  
Director (F&A)  
Ph. No. 24301330/24367650

**Government of India  
Ministry of Communications and Information Technology  
Department of Electronics and Information Technology  
CONTROLLER OF CERTIFYING AUTHORITIES  
Electronics Niketan,6, CGO Complex, Lodi Road  
New Delhi – 110 003**

**TENDER DOCUMENT**

**FOR**

**Supply, Installation and maintenance of OCSP software**

**Last Date of submission : 12.02.2016**

**Last date of Clarification : 25.01.2016**

**Col R.M Joshi,  
Room No 330, Office of Controller of Certifying Authorities  
Department of Electronics & Information Technology, Electronics Niketan,  
6, CGO Complex, Lodi Road, New Delhi – 110 003**

## **I. INTRODUCTION**

The Controller of Certifying Authorities (CCA) has been appointed by the Central Government with the aim of promoting the growth of E-Commerce and E-Governance through the wide use of digital signatures.

Office of Controller of Certifying Authorities, issue licences to CAs and signs/certifies their public keys. As the Root CA of India, it certifies the public keys of the CAs, lays down the standards to be maintained by the CAs and performs several other functions to regulate the functioning of the licensed CAs in the country. Licensed CAs issue Digital Signature Certificates.

In order to make available the status of issued CA Certificates, Office of CCA proposes to establish an Online Certificate Status Protocol(OCSP) responder service. OCSP will provide response to relying parties who query the revocation status of CA certificate issued by the Root CA through standard protocols

## **2. SCOPE OF THE PROJECT**

Office of CCA is inviting bids for supply, installation and maintenance of OCSP software for a period of 6 years. The successful bidder will be required to deploy the OCSP software in the infrastructure provided by Office of CCA and maintain the software for a period of six years.

The OCSP service provider will deploy the solution at the Data centre premises provided by Office of CCA. The CA certificates and Certificate Revocation List (CRL) will be made available to the system hosting OCSP service by Office of CCA through a secure channel. The maximum expected number of DSCs and CRL entries are hundred only.

For providing the CA Certificate Revocation Status, the successful bidder will be required to provide OCSP response to OCSP request based on RFC 2560 with whitelist checking.

At the time of setting up backup site for main site, the software and service should be same as main site. The main site will be in Delhi and service should be replicated at DR site, Hyderabad.

## **3. SOFTWARE FUNCTIONAL REQUIREMENTS**

1. Root Certifying Authority publishes the Certificate Revocation List (CRL) in accordance with the provisions of Information Technology Act and Guidelines specified by the Office of CCA.

2. The OCSP responder services shall operate in single server with local database having all CA certificates and CRL.
3. Root CA will push DSC or CRL as and when it issues , revokes a DSC or on routine CRL generation. The expected number of DSCs and number of revocations is less than hundred only.
4. The OCSP software shall conform to the request and response profiles mentioned in the X.509 Certificate Policy for India PKI, Interoperability Guidelines for DSC ( available on cca.gov.in) and RFC 2560
5. OCSP responder software shall provide service using the GET or the POST method for DSC issued under Root CA
6. Under normal operating conditions , OCSP should be able to provide a response within ten seconds
7. OCSP responses MUST be signed by an OCSP Responder
8. OCSP responder software should check whether the certificate has been issued by Root CA prior to providing OCSP response.
9. If OCSP responder receives a request for status of a certificate that has not been issued, then the responder MUST NOT respond with a "good" status.
10. The OCSP responder software SHOULD log such requests as part of its security response procedures.
11. The end to end process must be automated for providing OCSP response to a Relying Party. There must not be any manual intervention unless an error condition arises.
12. The OCSP must accept both signed and unsigned OCSP requests
13. The OCSP must not use pre-computed or cached responses for certificate Status
14. The OCSP Responder should be able to support nonce extension in request and responses
15. The software should be able to support HSMs having PKCS#11 interface.
16. The OCSP solution should have mechanism to transfer certificates and CRLS to the database of OCSP service manually using script or software tools.
17. The mechanism for protection of local certificate database should be addressed in the OCSP solution

#### **4. ELIGIBILITY CRITERIA:**

1. The vendor's software should have been installed and operational in at least one site for an external agency other than vendor.
2. The vendor's software should meet the functional requirements mentioned in 3 above.
3. Vendor should have office and support personnel in India.

#### **5. SELECTION PROCESS:**

The bidders who meet the eligibility criteria and software functional requirements will be considered for financial evaluation. The financial bids of the successful bidders will be evaluated by a committee. The selection of an agency for a particular assignment will be on the basis of L1.

## 6. TERMS AND CONDITIONS

1. The proposals should be submitted with EMD of an amount of Rs. 10000/- in the form of Demand Draft/Pay order/bank draft in favour of "Pay & Accounts Officer, Department of Electronics & Information Technology", payable at New Delhi. Please write your name, address and Tel. No. at the back of the Demand Draft/ Bank Guarantee. Tender submitted without Demand Draft/ Bank Guarantee will be rejected
2. Offers must be submitted, in two separate sealed covers (Part I and Part II). The first sealed cover duly superscribed "Part I –Technical Bid" should contain details sought in the annexure I and EMD. EMD, as prescribed, shall be deposited in a separate sealed cover along with the Technical Bid. The envelope containing EMD shall be opened first and in case the EMD is not found in order, the tender of the defaulting tenderer shall not be considered. The second sealed cover duly superscribed "Part-II – Financial Bids" should contain copy of financial bid detailing price of each item separately. The financial bid will be opened only if the technical bid is cleared and accepted. Both the above covers may be placed in a third sealed cover super scribed "**Supply, Installation and maintenance of OCSP software**".
3. Bids not conforming to the above instructions are liable to be rejected at the discretion of Office of CCA
4. The proposal should reach The Director , Room No 330, Office of Controller of Certifying Authorities, Ministry of Communications and Information Technology, Electronics Niketan, 6, CGO Complex, New Delhi (Room No. 330, Tel: 2401330) by 1500 hrs. On or before 12.02.2016. Proposals received after the due date and time will not be considered.
5. In the case of agencies whose proposals are not considered for placing order, the Earnest Money Deposit will be refunded without any interest after the final decision is taken.
6. Validity of offer- Proposals submitted by the agency shall remain valid for a minimum period of 6 months from the date of opening of the proposal.
7. The Office of CCA will not be responsible for postal delays.
8. The Competent Authority reserves the right to reject any proposal or all proposals, if any of the conditions is not fulfilled or without assigning any reason.
9. Opening of Bids: The bids received within the due date and time will be opened on 12.02.2016, at 03:30 PM, at Room No 330, in the presence of authorized representatives of bidders.
10. For supply, installation and commissioning, the payment will be in stages as per the provisions mentioned in the GFR. The final payment will be released only after satisfactory report of Office of CCA. The interim payments will be released against Bank Guarantee.
11. In the case AMC, the payments will be in quarterly or yearly basis as per the mutual agreement between bidder and Office of CCA.
12. The bid shall be on a fixed price basis. Prices should be exclusive of all taxes. Taxes will be paid separately as per prevailing Govt of India rule.

13. The Office of CCA shall be under no obligation to accept the lowest or any other tender received in response to this tender notice and shall be entitled to reject any or all tenders without assigning any reason whatsoever. Office of CCA has the right to accept the tender in its totality or in parts at its discretion.
14. The bid shall not have any pre-condition by bidder. The bid with pre-condition shall be rejected.
15. Office of CCA reserves its right to cancel the order in the event of one or more of the following conditions:
  - i. Delay in completion of work beyond the specified period.
  - ii. In addition to the cancellation of the work Order, Office of CCA reserves the right to appropriate the damages from the vendor and/or foreclosure of the bank guarantee given by the supplier against advance payment, apart from forfeiture of the EMD.
  - iii. Office of CCA has the right to cancel the tender in its totality or in parts at its discretion
16. Software should be under one year free warranty support service from the date of installation and acceptance.
17. The following conditions should be fulfilled during Warranty & AMC:-
  - a. Offline support and provision for on site support if required
  - b. The response time for the issues raised shall be less than 4 hours from the time of reporting.
  - c. Software update, security patches and compliance to CA browser forum OCSP service requirements.
18. In the event of the bidder's Company or the concerned division of the company being taken over/bought over by another company, all the obligations under the agreement with office of CCA should be passed on for compliance by the new company/new Division in the negotiation for their transfer.
19. The prices in Indian rupees should be quoted as per specifications given in the Annexure II .The bidder shall quote for post warranty Annual Maintenance Contract (AMC) for 5 year. Total 6 Years support is required (1 Year warranty + 5 years AMC).
20. After evaluation of all accepted proposals by the evaluation committee, the contract shall be awarded to the bidder having lowest financial bid based on cost of installation and AMC for 5 years.

**TECHNICAL BID****1. SOFTWARE FUNCTIONAL REQUIREMENTS**

<b>Sl no</b>	<b>Functional requirements mentioned in section 3</b>	<b>compliance</b>

**2. ENVIRONMENT**

<b>Sl no</b>	<b>Support</b>	<b>compliance</b>
1	Windows environment support of bidders OCSP software	
2	No additional application software requirements other than that supplied by bidder	
3	Offline support including helpdesk /mail /telephone etc	
4.	Support personnel in India	
5	Provision for manual CRL and certificate uploading.	
6	Support of HSMs having PKCS#11 API	

**PRICE BID**

1. Name of the bidder with address:

2. PRICE QUOTE

I. PRICE QUOTE FOR SUPPLY , INSTALLATION AND COMMISSIONING( THREE INSTALLATION , ONE ACTIVE AND TWO STANDBY)

Sl no	Area	Price quote	Total Price
1.	Supply , installation and commissioning		
		Total (A)	

II. PRICE QUOTE FOR AMC

Sl. No.	Item Description	During Warranty First Year	Post Warranty First Year AMC	Post Warranty Second Year AMC	Post Warranty Third Year AMC	Post Warranty Fourth Year AMC	Post Warranty Fifth Year AMC
		Rs	Rs	Rs	Rs	Rs	Rs
		(a)	(b)	(c)	(d)	(e)	(f)
1.	Offline support						
2.	5 man day on-site maintenance						
<b>Grand Total Warranty &amp; AMC for 5 years (B):</b>							

III. PRICE QUOTE FOR - DISASTER RECOVERY SITE- SUPPLY, INSTALLATION & MAINTENANCE

Sl no	Area	Price quote in percentage of (A)+(B)
1.	Supply , installation and commissioning at disaster recovery site	
		Total (C)

*Note: All prices must be exclusive of all taxes.*

*The applicable tax will be paid by Office of CCA.*

*The selection of LI will be on the basis of lowest of (A) +(B)+(C)*