

Expression of Interest

for shortlisting of

Agencies for collaboration in Quantum Technology and Associated areas



Invited by

**CENTRE FOR DEVELOPMENT OF ADVANCED COMPUTING
(C-DAC), PUNE**

**Innovation Park, Panchavati, Pashan
Pune, Maharashtra 411008, India**

EoI Document No: CDACP/EoI-QT/22-23/345 dated 01/06/2022



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ACTIVITY SCHEDULE

Sr. No.	Eoi No. & Date of Release	CDACP/Eoi-QT/22-23/345, dated 01/06/2022
1	Last Date of Sending Queries	06/06/2022
2	e-mail for Sending queries	mmg@cdac.in
3	Date of Pre-submission Meeting	07/06/2022 @ 1130 Hrs. Link for on-line meeting will be shared 15 minutes before meeting.
4	Last Date of Submission of Proposals	23/06/2022 @ 15:00 Hrs.
5	Address for pre-submission meeting	Centre for Development of Advanced Computing S. No. 34, Innovation Park, Panchavati, Pashan Road, Pune 411008.
6	Date of Opening of Proposals	24/06/2022 @ 15:00 Hrs.
7	Place of Opening of Proposals	C-DAC, Pune- 411008
8	Date of Technical Presentation	Will be informed later.
9	Document processing fee	INR 1000/- in the form of DD payable to C-DAC, Pune OR through online transfer
10	Earnest Money Deposit (EMD)	Bid Security Declaration Format – Annexure E
11	Bank Details for depositing Document fee	Name of Account: Centre for Development of Advanced Computing Name of Bank: Bank of India, Pashan Road, Pune – 411008, Account No: 051610110002660, IFSC: BKID0000516



SECTION I: INVITATION FOR PROPOSALS

1. Disclaimer

Centre for Development of Advanced Computing (C-DAC) has prepared this Expression of Interest (EoI) document solely to invite prospective agencies to jointly execute various technology projects from Government as well as private agencies.

The C-DAC, invites bids from reputed and eligible firms for their shortlisting as agencies for providing Software Application Development support by using industry accepted software methodologies which leverage rapid/accelerated application development tools and methods applicable to desktop, web and mobile platforms.

While C-DAC has taken due care in the preparation of information contained herein and believes it to be accurate, neither C-DAC or any of its authorities or agencies nor any of their respective officers, employees, agents or advisors give any warranty or make any representations, express or implied as to the completeness or accuracy of the information contained in this document or any information which may be provided in association with it.

This information is not intended to be exhaustive and interested parties are required to make their own inquiries in order to submit the EoI. The information is provided on the basis that it is non-binding on C-DAC, any of its authorities or agencies or any of their respective officers, employees, agents or advisors.

C-DAC reserves the right not to proceed with the bidding/EoI process at any stage without assigning any reasons thereof, or to alter the timetable reflected in this document or to change the process or procedure to be applied.

It also reserves the right to decline to discuss the EoI further with any party submitting an EoI. C-DAC will not be liable to pay/reimburse any cost/losses/expenses/penalties/damages of whatsoever nature to any person (s)/entity (ties) submitting the EoI.

2. Introduction

C-DAC with its focus in Advanced Computing is uniquely positioned to establish dependable and secure Exascale Ecosystem offering services in various domains.

As our nation embarks upon its most revolutionary phase of Digital Transformation, multitudes of reformative and transformative changes in the way we live, interact, and engage within the society and beyond are being witnessed. At the core of this revolution reside scientific and engineering imperatives, interventions, challenges, solutions and breakthroughs to establish ensured Digital Infrastructure as a utility for governance, services-on-demand and digital empowerment of the citizens.

C-DAC, as the premier scientific and engineering institution of Ministry of Electronics and Information Technology (MeitY), has been entrusted to take this mantle and steer it through this monumental phase of digital transformation. C-DAC has attained a vantage position in the area of ICTE through its applied pioneering research in the last three decades in various domains in the ever-vibrant global landscape, which includes high impact initiatives such as National Supercomputing Mission (NSM).

Beyond excelling in the present areas of research, C-DAC has committed itself to explore and engage in the avant-garde visionary areas. Quantum computing evolving as a new paradigm is well poised to solve grand challenge problems.



With this conduit between strategy and execution, C-DAC shall create an impact in its research at global level addressing national challenges and offering Quantum Computing ecosystem.

3. Objective

The objective of this EoI is to shortlist organisations who have expertise in above mentioned Quantum Technology and associated areas leading towards collaborative development and capacity building activities. Based on the assessment suitable agencies will be engaged.

Based on the need, C-DAC shall select and identify agencies amongst the shortlisted agencies for co-development, implementation, testing, maintenance, support, capacity development & training etc., related to Quantum technologies.

It is envisaged to have end to end collaboration from development to release processes including deployment automation, scalable, seamless deployment and operations across clusters. The systems so developed should be effectively tested, modular and robust. Expertise in product testing & assessment, performance fine tuning & security, project management & planning etc. are desirable.

As per project demands, such agencies should be ready to provision and provide quantum technology solutions, labs/facilities, provide solution architects, scalable application designers, infrastructure architects and solution providers.

C-DAC is expecting projects of the order of INR 50 Lakhs and above which it plans to execute with active support from the selected agencies, during the period of shortlisting.

As per the requirements of the project, C-DAC reserves the right to select the agencies for providing the services through any one or more of the following modes:

- Collaborative Development Partner (CDP)
- Training Partner (TP)
- Providing suitable manpower on the Time and Material (T&M) basis

The overall objective of the shortlisting is stipulated in Section -II of this document.

The details of the services required are stipulated in Section – III of this document.

4. Instructions for On-line Proposal Submission

The agencies are required to submit soft copies of their proposals electronically through www.eprocure.gov.in , using valid Digital Signature Certificates (DSC). The instructions given below are meant to assist the agencies in registering on the CPP Portal, prepare their proposals in accordance with the requirements and submitting their proposals online on the CPP Portal. More information useful for submitting on-line proposals on the CPP Portal may be obtained at: <https://eprocure.gov.in/eprocure/app>.

5. Assistance to Agencies

Any query relating to the process of on-line proposal submission or queries relating to CPP Portal in general may be directed to the 24*7 CPP Portal Helpdesk on: 0120-4200 462, 0120-4001 002, 0120-4001 005, 0120-6277 787, e-mail for technical support: eproc@nic.in

6. Contact Information

Materials Management Group
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan Road
Pune 411008, Maharashtra, INDIA



Tel No.: +91-20-25503673/4/5

E-mail: mmg@cdac.in

7. Proposal Submission

- i. The prospective agencies should take into account any corrigendum published regarding this EoI document before submitting their proposals.
- ii. The documents should be scanned in 100 dpi with black and white option.
- iii. The prospective agency may submit the proposal for selection as Collaborative Development Partner (CDP) or Training Partner (TP) or both. Also, bidders who are interested may indicate their interest with respect to T&M, however, separate process shall be followed to shortlist and select the agency.
- iv. The following documents should be submitted in PDF format through www.eprocure.gov.in/eprocure/app.
 - a. Scanned copy of Demand Draft or on-line transaction receipt towards document processing fees of INR 1000/- (Rupees One Thousand Only) drawn in favour of C-DAC payable at Pune. (The original DD must be submitted at the place of opening of the EoI on or before the last date and time of submission of the EoI).
 - b. Covering letter as per format given in **Annexure – A**.
 - c. Duly filled proposal documents with proper seal and signature of the authorised person with name, designation, email id & contact number along with the authority letter, as per the format attached in **Annexure – B**.
 - d. A copy of Certificate of Incorporation, Partnership Deed/Memorandum and Articles of Association or any other equivalent document showing date and place of incorporation, as applicable.
 - e. Copies and documents in support of General eligibility criteria stipulated at para 2(a) of Section – II of this document.
 - f. Copies of documents in support of any one or more of the Specific Eligibility Criteria (as per bidders choice), stipulated at para 2(b)(i) or 2(b) (ii) or 2(b)(iii) of Section – II of this document.
 - g. A certificate from a Chartered Accountant for the last 3 financial years indicating the annual sales turnover pertaining to IT services of the prospective agency.
 - h. Organizational Details, as per **Annexure – C**.
 - i. Details of manpower on roll of the bidder.
 - j. Details of experience of the prospective agencies, as per format given in **Annexure – D**.
 - k. Bid Security Declaration Format – **Annexure E**
 - l. The copies of PAN, TAN, as applicable.
 - m. The copies of GST registration certificate/s.
 - n. Copies of documents in support of other credentials like DIPP certificate, ISO Certification, awards won, professional membership, etc.
 - o. Other documents necessary in support of eligibility criteria and/ or credential of the prospective agency.

Note: C-DAC reserves the right to reject the proposal if any of the above listed document/s is/are not submitted.

8. The proposal should be addressed to:

The Executive Director
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pashan, Pune - 411008
INDIA

9. Pre-Proposal Meeting

The pre-proposal meeting will be held as per details given in Activity Schedule.

10. Validity:

The proposal submitted shall remain valid for a period of at least 120 days from the date of submission.



11. Last Date of Submission of Proposals

Last date for uploading/sending the e-proposals is as per details given in Activity Schedule.

The instruments towards document processing fees must be submitted in person or through post/courier or online transfer (C-DAC shall not be responsible for any postal delays or any other reason for not submitting the fees in the specified time and resulting in disqualification/rejection of any proposal) so as to reach on or before the due date and time. Bank details as mentioned in the activity schedule.

(END OF SECTION I)



SECTION II: INSTRUCTIONS TO PROSPECTIVE AGENCY

1. Period of Engagement

The initial period of engagement shall be Three (03) years. C-DAC reserves the right to extend this period by another one/two (01/02) year on same terms and conditions.

2. Eligibility Criteria

All the prospective agency must meet the minimum eligibility criteria given below.

a) General Eligibility Criterion

- a. The bidder should be an Indian entity registered under companies act 2013 or under section 59 of partnership act 1932 or under the limited liability partnership act 2008, in India.
Copy of Certificate of Incorporation/ Registration/ Partnership Deed or any other relevant document, as applicable, should be submitted along with a copy of address proof.
- b. The Bidder shall be in operations in India for a period of at least five (5) years as on published date of EoI.
- c. The average annual turnover of the bidder in last 3 financial year shall be min. INR 50 L
- d. The Bidder shall have positive net-worth in the last 03 Financial Year
- e. The bidder should have a valid PAN and GST Registration (copy of PAN card and GST Registration certificate should be submitted in the bid). Copy of PAN card and GST Registration certificate should be submitted in the bid. In case GST registration is not available, the bidder shall give undertaking that it will get registered before start of work, if work is awarded to them
- f. The bidder shall submit an undertaking on their letter-head stating that:
"In reference to the Government of India, Ministry of Finance, Department of Expenditure, Office Memorandum No. F.No. 6/18/2019-PPD, Dated 23-07-2020. I hereby submit that, We have read the Clause regarding restrictions on procurement from a bidder of a country which shares a land border with India;
We **are from such a country** and have been registered with the competent authority. The copy of valid registration certificate is enclosed. OR
We certify that we **are not from such a country** or the beneficial owner is not from such a country or we will not sub-contract any work to a contractor from such countries."
- g. Proof of PF registration to be submitted by the bidder, if the bidder comes under PF.
- h. Bid by Consortium is not allowed.
- i. The bidder should not be insolvent, in receivership, bankrupt or being wound up, not have had their business activities suspended and not be the subject of legal proceedings for any of the foregoing. An undertaking by the bidder should be submitted.
- j. The Bidder should not be blacklisted/debarred/banned/restricted by any Union Govt./State Govt. /PSU as on date of submission of the Bid. "No-Conviction Certificate" duly signed by authorized signatory signing the bid, should be submitted in the prescribed format

b) Specific Eligibility Criteria

For Domain Verticals please refer to section III point 2.

i. Eligibility criteria for collaborative development partner (CDP):

1. The bidder must have at least one project executed /on-going with value greater than Rs. 50 Lakhs in one or more of the mentioned verticals and related areas.
(OR)



The bidder must have at least one Patent (awarded/filed) in one or more of the mentioned verticals and related areas.

(OR)

The bidder must have developed and deployed at least one product/solution in the mentioned vertical and related areas.

2. The bidder must have at least 2 personnel (Masters in Science / Engg.) on roll of the bidder and working in the mentioned vertical as on date of submission of proposal.

ii. Eligibility criteria for training partner (TP):

1. The bidder must have executed at least one complete course (online/offline) in the vertical and related areas.
2. The bidder must have at least 2 personnel (Masters in Science/ Engg.) offering the training and has domain knowledge of the mentioned verticals.
3. The bidder must have trained at least 200 persons in the last one year in the mentioned verticals.

iii. Eligibility criteria for providing manpower in T&M basis:

Bidders who are interested may indicate the same. However, separate process shall be followed to shortlist and select the agency. Bidders may refer Section III, point1, sub-point C.

Note: The prospective agencies (Bidder) should provide sufficient documentary evidence to support the eligibility criteria. C-DAC reserves the right to reject any proposal not fulfilling the eligibility criteria.

3. Earnest Money Deposit (EMD)

The bidders shall sign a Bid Security Declaration (as per format given in EOI -Annexure E) accepting that if they withdraw or modify their bids during the period of validity etc., they will be suspended for the time specified in the EOI document. In exceptional cases where client doesn't exempt EMD/Bid Security in line with guidelines by Govt., then the bidder shall also be asked to submit EMD/Bid Security (on back to back terms with Client).

Note:- Bids received without Bid Security Declaration form shall be summarily rejected.

4. Exemptions

If in the view of the agencies, any exemption/relaxation is applicable to them from any of the eligibility requirements, under any Rules/Guidelines/Directives of Government of India, agencies may submit their claim for the applicable exemption/relaxation, quoting the valid Rule/Process/Guidelines/Directives. In this case the agencies must submit necessary and sufficient documents along with their proposal, in support of this claim. The decision about granting the exemption/relaxation will be taken by the evaluation committee which is empowered to grant exemption/relaxation.

5. Desired Credentials

Over and above the eligibility criteria stipulated above, the additional credentials are desirable and will be given added weightage, as detailed in **Section – II, "Evaluation of Proposals"**.

6. Amendments to EOI Document

- a) At any time prior to the deadline for submission of proposals, C-DAC may, for any reason, whether on its own initiative or in response to the clarification request by a prospective agency, modify the EOI document.
- b) The amendments to the EOI documents, if any, will be notified by release of corrigendum notice on C-DAC website. The amendments/ modifications will be binding on the prospective agencies.



- c) C-DAC at its discretion may extend the deadline for the submission of proposals if it thinks necessary to do so or if the proposal document undergoes changes during the submission period, in order to give prospective agencies time to take into consideration the amendments while preparing their proposals.
- d) C-DAC reserves the right to cancel the said EoI without assigning reasons therefor.

7. Preparation of Proposals

- a) Prospective agency should avoid, as far as possible, corrections, overwriting, erasures or postscripts in the proposal documents. In case however, any corrections, overwriting, erasures or postscripts have to be made in the proposals, they should be supported by present date signatures of the same authorized person signing the proposal documents.
- b) Prospective agency shall not be entitled to amend add/delete/correct the clauses mentioned in the entire tender document.

8. Technical Presentation

Subsequent to submission of proposals, the Evaluation Committee of C-DAC may ask the eligible prospective agencies to give a detailed technical presentation, covering following points:

- a) Company Profile and nature of their activities.
- b) Knowledge, skills, expertise pertaining to the areas for which proposal is submitted (primary focus).
- c) Achievements, awards won, etc.
- d) Potential and priority areas for collaboration/indicative roles & responsibilities/Plan/methodology for rendering the services for which the proposal is submitted.
- e) Capability and willingness.
- f) Any other differentiators.

9. Evaluation of Proposals

- a) The proposals will be evaluated in two steps. The proposals will be examined based on eligibility criteria stipulated at Section – II to identify the eligible agencies.
- b) The eligible agencies will be invited for the technical presentation. The shortlisting of the agencies will be finalized after technical presentation and evaluation.

10. RFP Process

Limited enquiries will be sent to the shortlisted agencies for submitting the techno-commercials proposals for the Projects. C-DAC reserves the right to invite the proposals from all the bidders who are shortlisted for respective verticals.

Some of the indicative terms and conditions applicable for such proposal - but not limited to, will be as follows:

- a) The contract/agreement shall depend upon the project duration and may initially go up to a period of 03 (three) years. C-DAC may extend the initial contract/agreement by another -02(two) years.
- b) The successful prospective agency will be required to submit the performance bank guarantee. Start-ups will get waiver as per GFR norms.
- c) The contract will be awarded to the eligible agency offering most competitive prices and meeting the technical criteria. C-DAC reserves the right to evaluate the offer and award the contract on the basis of Quality and Cost Based System (QCBS).
- d) The value of individual order/contract may range from several lakh INR depending upon the type of engagement as mentioned in "Objectives" section.
- e) The detailed scope of services, terms and conditions of work shall be stipulated in 'SoW' (Statement of Work) to be signed by both the parties before release of individual order.
- f) The contract may include terms related to penalty for delay in meeting the deadlines.
- g) The contract may include terms related to penalty for non/short performance.
- h) The contract may include terms related to Change order procedure for variation in scope of services or changes in requirements.



- i) The contract may include terms related to taxes and tax/duty exemptions.

11. C-DAC's Right to Amend/Cancel

- a) C-DAC reserves the right to amend the eligibility criteria, scope of supply, technical specifications etc.
- b) C-DAC reserves the right to cancel the entire EoI without assigning any reasons thereof.

12. Corrupt or Fraudulent Practices

- a) It is expected that the prospective agency who wish to enrol as agency should have highest standards of ethics.
- b) C-DAC will reject proposal if it encounters that the prospective agency recommended for award of contract has engaged in corrupt or fraudulent practices while competing for this contract.
- c) C-DAC may declare a prospective agency ineligible, either indefinitely or for a stated duration, to be awarded a contract if it at any time encounters that the prospective agency has engaged in corrupt and fraudulent practices during the award/execution of contract.

13. Penalty for Use of Undue Influence

The prospective agency undertakes that he has not given, offered or promised to give, directly or indirectly, any gift, consideration, reward, commission, fees, brokerage or inducement to any person employed in C-DAC or otherwise in procuring the contract/agreement or forbearing to do or for having done or forborne to do any act in relation to the obtaining or execution of the contract/agreement or any other contract/agreement with the Government of India for showing or forbearing to show favour or disfavour to any person in relation to the contract/agreement or any other contract/agreement with the Government of India. Any breach of the aforesaid undertaking by the prospective agency or anyone employed by him or acting on his behalf (whether with or without the Knowledge of the prospective agency) or the commission of any offence by the prospective agency Partner or anyone employed by him or acting on his behalf, as defined in Chapter 9 of the Indian Penal Code, 1860 or the Prevention of Corruption Act 1986 or any other Act enacted for the prevention of corruption shall entitle C-DAC to cancel the contract/agreement and all or other contract/agreements with the prospective agency and recover from the prospective agency the amount of any loss arising from such cancellation. The decision of C-DAC to the effect that a breach of the undertaking had been committed shall be final and binding on the prospective agency, giving or offering of any gift, bribe or inducement or any attempt at any such act behalf of the prospective agency toward any officer/employee of C-DAC or to any other person in a position to influence any officer/employee of C-DAC for showing any favour in relation to this or any other contract/agreement, shall render the prospective agency to such liability/penalty as C-DAC may deem proper, including but not limited to termination of the contract/agreement, imposition of penal damages, and refund of the amount paid by C-DAC.

14. Confidentiality

The agency and/or their personnel shall not, either during the term or after expiration of engagement period disclose any proprietary or confidential information relating to the services, contract or C-DAC's business or operations without the prior written consent of C-DAC. The agency and/or their personnel shall not, either during the term or after expiration of this contract, undertake any public communication, press/media releases relating to the services, contract, or C-DAC's business or operations without the written consent of C-DAC. Information available on public domain is excluded from confidentiality clause.

15. Force Majeure

C-DAC may consider relaxing the penalty and delivery requirements, as specified in this document, if and to the extent that, the delay in performance or other failure to perform its obligations under the contract is the result of an Force Majeure. Force Majeure is defined as an event of effect that cannot reasonably be anticipated such as acts of God (like earthquakes, floods, storms etc.), acts of states/state agencies, the



direct and indirect consequences of wars (declared or undeclared), hostilities, national emergencies, civil commotion and strikes at agency's premises or any other act beyond control of the agency.

16. Arbitration

In case any dispute arises between the C-DAC and successful agencies with respect to this RFP, including its interpretation, implementation or alleged material breach of any of its provisions both the Parties hereto shall endeavour to settle such dispute amicably. If the Parties fail to bring about an amicable settlement within a period of 30 (thirty) days, dispute shall be referred to the sole arbitrator mutually appointed by both parties. If the sole arbitrator is not appointed mutually by both the parties then the District Court Pune shall have exclusive jurisdiction for appointment of sole arbitrator through court. Arbitration proceedings shall be conducted in accordance with the provisions of the Arbitration and Conciliation Act, 1996 and Rules made there under, or any legislative amendment or modification made thereto. The venue of the arbitration shall be Pune. The award given by the arbitrator shall be final and binding on the Parties. The language of arbitration shall be English. The common cost of the arbitration proceedings shall initially be borne equally by the Parties and finally by the Party against whom the award is passed. Any other costs or expenses incurred by a Party in relation to the arbitration proceedings shall ultimately be borne by the Party as the arbitrator may decide. Courts in Pune only shall have the exclusive jurisdiction to try, entertain and decide the matters which are not covered under the Arbitration and conciliation Act.

17. Indemnity

Selected agencies may please note that, C-DAC shall neither be the Employer of nor shall it be deemed to be the principal employer of any persons to be deployed by the agencies towards the service rendered and shall not in any manner be responsible for any act, omission or commissions by the agencies, the manpower deployed for this project or by his employees, in respect of any non-compliance of all or any labour and other laws statutory notifications, relevant rules and regulations applicable to the provision of Provident Fund and ESIC of the persons engaged by the supplier and no claim in the respect shall lie against C-DAC. The agencies shall keep indemnified C-DAC for any such claim raised by employees of the agencies. It may be expressly understood that the relationship between the parties hereto is as Principal – to – Principal and the agencies shall not be an agent of C-DAC for any purpose whatsoever, and shall not represent or hold himself out as such to any person/s.

18. Limitation of Liability

1. The maximum aggregate liability of selected agencies – except those stipulated at clause 19(b) below, in respect of following cases shall not exceed the total amount of the Contract/ Works Order:
 - i. Any claims, losses, costs or damages arising out of or in connection with this RFP, Contract/ Works Order or SoW .
 - ii. Damage(s) occasioned by agencies for breach of Confidentiality Obligations.
 - iii. Regulatory or statutory fines imposed by a Government or Regulatory agencies for non-compliance of statutory or regulatory guidelines applicable to NeSL, provided such Rules, Regulations etc. were brought to the notice of agencies.
2. The liabilities- if any with respect to the following shall be at actuals:
 - i. Claims that are the subject of indemnification pursuant to infringement by the agencies of third party Intellectual Property Right .
 - ii. Damage(s) occasioned by the Gross Negligence or Willful Misconduct of the agencies.
3. Under no circumstances shall either Party be liable for any indirect, consequential or incidental losses, damages or claims including loss of profit, loss of business or revenue.

19. Termination

Validity of order/contract will remain till fulfilment of all obligations pertaining to development and successful deployment of software including (but not limited to) the terms and conditions stipulated in the



order, for the period stipulated in the Order. C-DAC reserves the right to terminate the contract/cancel order with or without cause/reason by giving 60 days' notice to the selected agencies. The selected agencies may terminate the Service Agreement /Order by at least 30 days written notice, in the event of non-payment of undisputed invoices for 60 days from the due date. All amounts which are due and payable to the Vendor shall be immediately be paid by C-DAC in the event of termination of the agreement for any reason whatsoever.

20. Assignment

Selected agency shall not assign, delegate or otherwise deal with any of its rights or obligation under this contract without prior written permission of C-DAC.

The prime responsibility towards the successful execution of agreement/contract lies with prospective agency associating with C-DAC. The selected agency shall not fully or partially sub-let to any other entity without prior approval and written consent of C-DAC.

21. Severability

If any provision of this contract is determined to be invalid or unenforceable, it will be deemed to be modified to the minimum extent necessary to be valid and enforceable. If it cannot be so modified, it will be deleted and the deletion will not affect the validity or enforceability of any other provision.

22. Interpretation of the Clauses in the EoI Document

In case of any ambiguity/dispute in the interpretation of any of the clauses in the EoI document, the interpretation of the clauses by Director General, C-DAC shall be final and binding on all parties.

(END OF SECTION II)



SECTION III: SCOPE OF SERVICES AND ROLES

1. Modes of Engagement

Selected agencies shall collaborate, develop, implement, test, maintain and support Quantum Computing, communication, sensing, PQC, QKD and other associated technologies. The system may also encompass software/hardware products in Quantum technology and associated areas. It is envisaged to have end to end collaboration from development to release processes including deployment automation, scalable, seamless deployment and operations. The systems so developed should be effectively tested, modular and robust.

As per project demands, such agencies should be ready to provision design and develop quantum hardware /software products, project management & planning.

A. Collaborative Development Partner (CDP)

In this mode, the selected agency should complete the development and/or implementation and/or maintenance of equipment/applications and/or modules as per the scope and milestones stated in Statement of Work. The selected agency will be responsible for the successful outcome as per the acceptance criteria and milestones defined in SoW. The scope of services to be provided by the agency may also cover services for quantum technology and associated areas for maintenance and support of the existing equipment/software/application, design, development, installation, integration and configuration of additional features and functionalities, design, development, installation, testing & validation, integration and configuration of additional software modules/applications.

B. Training partner (TP)

In this mode, the selected agency shall partner with C-DAC for offering training programs and capacity building in the given verticals.

C. Provision of Skilled manpower (T&M)

In this mode, the selected agencies should provide qualified skilled personnel as per the requirement stated in Statement of Work (SoW). The persons will be engaged for a specific time period measured in man months. The selected agencies will be responsible for the availability and productivity of personnel assigned to work as per the SoW. The selected agencies will be required to sign a Statement of Work (SoW) with C-DAC team for individual activity, module, functionality or artefact of the required Services. The agencies will be required to provide the services in terms of man months as stipulated in SoW. After the completion of an activity/module, the manpower deployed for that activity/module should be taken back by the agencies or re-deployed for another activity/module, as required. The scope of services to be provided by the agencies may also cover services for quantum technology and associated area for development/maintenance and support of the existing equipment/software/application/hardware, design, development, installation, integration, testing & validation and configuration of additional features and functionalities, design, development, installation, integration and configuration of additional software modules/applications. The manpower to be deployed by the selected agencies may be required to work on-site (client site) or off-site (at C-DAC or its own premises).

2. Scope of engagement

1. Quantum Computing

Quantum computers or quantum processor units (QPU) will be in principle part of hybrid computing systems, where a QPU operates as a subroutine or a co-processor to a supercomputer. In this direction, there has been rapid progress in the development of variational quantum algorithms, which use the



best of both worlds. It harnesses the power of quantum computers and is complemented by high-performance classical computers to solve industry, business, cryptanalysis- oriented complex problems. The near future global market is going to be driven by quantum computing and performance-intensive computing. Hence, there is a pressing need to create a knowledge base, expertise and eventually create a national roadmap for building scalable quantum computers, quantum software, and hardware control systems, quantum simulators, and most importantly skill-building in quantum algorithm development in India. In this direction C-DAC has taken the following initiatives:

- 1) Quantum simulator which can be a playground for anyone passionate to learn or experiment in Quantum Computing - be it students, faculty or researchers. Such an effort will be an asset in quantum labs for high school, cyber schools, colleges, universities and industry in the creation of a quantum ecosystem in the country.
- 2) In the accelerators for quantum algorithms a small-scale quantum accelerator will be integrated with a supercomputer to achieve computational tasks that are otherwise beyond the reach of the HPC based Quantum Simulators available for a given class of problem. High Performance Computing (HPC) with accelerators strengthen the computing capacities of current computers and thereby develop hybrid Quantum-HPC systems.
- 3) Control and monitoring Hardware and software stack for quantum processors will be a multiprocessor system which is capable of controlling, acquiring and processing signals from quantum processor like ion trap, superconducting and photonic processor.
- 4) It is critical to explore the quantum algorithm aspect for real life applications which we refer to as Quantum solutions. The algorithms of interest are identified, analysed and efficient method for implementations are explored. Involves developing indigenous platforms such as quantum simulator, hybrid quantum classical platforms and quantum accelerators. The aspect of improvising computer learning using quantum computing is of interest for certain complex applications in the healthcare, cryptanalysis and defence, finance, supply-chain etc.

2. Quantum Communication

The ongoing global effort in realizing universal quantum computer and development of hybrid quantum machines has challenged the continuation of modern communication standards. In this direction global standardization bodies are strongly suggesting transition to quantum safe communication, which today comprises of primarily Quantum key distribution and quantum resistant algorithms.

Quantum Key distribution is the most mature branch of quantum communication which has commercial players. This technology generates encryption keys under the nose of an eavesdropper between two remote parties and this guaranteed by quantum principles like No cloning theorem, Heisenberg uncertainty principles etc. Today the world is exploring quantum communication networks like Quantum internet, quantum satellite network, quantum drone network, fibre-based quantum communication network and this encapsulates different technologies for developing prototypes and test beds. Recently, there are several initiatives in this area across the globe and C-DAC has initiated activities in the same. At C-DAC we are exploring both the continuous variable and discrete variable technologies for the implementation of quantum communication. Expertise is built in development for hardware and software development for quantum communication in both fibre and free space to explore different secure communication applications. The applications of quantum communication addresses securing the data in transition; hence, it is critical to understand the security of quantum communication devices and its implementation.



- 1) C-DAC proposes to develop state-of-art technology for fibre-based quantum communication devices with its seamless integration in present day communication networks. We are working on secure quantum network coexisting with present infrastructure.
- 2) We are working towards prototype product for applications in free space quantum communication domain for various use cases.
- 3) Major components include development of indigenous optoelectronics for use in secure quantum communication, detectors, network elements etc.
- 4) C-DAC is working towards realization of National Quantum Standardization Testing and Evaluation Lab, which will give India a platform to analyse and test quantum technology products beginning with Quantum communication building blocks and implementation. The primary intention is to build environment/infrastructure, build test cases, to provide infrastructural support for testing quantum communication devices and system to academia particularly to start ups, engineering colleges, R&D institutes and other activities like hands on training for industry, capability building in C-DAC (partnering with Government and defence to be explored), Service demonstration etc.

3. Quantum Sensing

Quantum sensing exploits quantum system and quantum properties to perform a measurement of a physical quantity with higher sensitivity and precision. The common platforms are spin qubits, trapped ions, flux qubits and other sensors include photons. The potential impact of quantum sensors is tremendous. Its applications include ultra-high-precision microscopy, positioning systems, clocks, gravitational, electrical and magnetic field sensors and optical resolution beyond the wavelength limit. Quantum sensors are predicted to enable detailed mapping of the underground, autonomous driving, medical progress, brain-computer interfaces, detection of minor traces of explosives and poisons, and improved imaging technologies both at short and long distances.

At C-DAC, we are working but not limited to the development of technologies Quantum Optical sensors and Quantum Dots for applications like water impurity detection and health assessment.

4. Post Quantum Cryptography

Quantum is disruptive to modern cryptography and it poses significant threat to the currently employed PKI protocols based on intractable problems in mathematics precisely, difficulty of the integer factorization problem and discrete logarithm problem mostly used in the Transport Layer Security (TLS), which is the security protocol behind the Hypertext Transfer Protocol Secure (HTTPS). These problems are believed to be hard in classical computation models, it can be performed with an exponentially lower time complexity in a quantum mechanical system. We are exploring transition to quantum-safe methods in the lines of National Institute of Standards and Technology (NIST) recommendation for Post-Quantum Cryptography (PQC) Standardization and approaches of European Telecommunications Standards Institute (ETSI).

- 1) At C-DAC, we analyse security issues of existing models with a focus on requirements for a fast transition to post-quantum solutions. In Post-quantum cryptography we analyse on quantum safe digital signature schemes. C-DAC will use its expertise in the design of VLSI Systems, ASIC IP development, microprocessor, microcontroller and DSP hardware and software technologies, which form the key building blocks in many industrial and strategic quantum technology areas.
- 2) Quantum Random Number Generators (QRNG) is a critical security element in trusted communication. At C-DAC, we propose to develop Quantum Certified Random Numbers within composable security framework enabling information theoretic random numbers for cryptographic applications.

5. Quantum Associated Technology

Quantum Associated Technology such as the following are being explored:



- a) HPC/ACCELERATORS/FPGA/Vector processing-based quantum applications and scaling up quantum algorithms
- b) Interfaces and control hardware for quantum processors (photonic/ion trap/superconducting etc.
- c) Drone based applications for Free space quantum communications.

Centre for Development of Advanced Computing (C-DAC) invites responses to this Expression of Interest (“EoI”) from interested prospective agency as per terms of engagement mentioned in this document.

3. Indicative Deliverables

The following is a list of indicative deliverables proposed through this EoI. However actual deliverables will depend upon project specific requirements and will be mutually finalized by C-DAC and selected agencies, before placing of order:

- a. Design /developed equipment/system/hardware/software/
- b. High Level and Low-Level Design/ Architecture Document
- c. Specification (SRS)
- d. User Manual/Statement of Work (SoW)
- e. Technical Manual/know-how/design artifacts/components
- f. Data Backup/Archival Process
- g. Requirement Traceability Matrix
- h. Source Code with documentation

4. Obligations of the agencies

- a. **Standard of Performance:** The agencies shall perform the Services and carry out their obligations hereunder with all due diligence, efficiency, in accordance with generally accepted professional standards and practices, and shall observe sound management practices, and employ appropriate technology and safe and effective equipment, machinery, materials and methods. The agencies shall always act, in respect of any matter relating to this engagement or to the Services, as faithful advisers to C-DAC, and shall at all times support and safeguard C-DACs legitimate interests in any dealings with third Parties.
- b. **Prohibition of Conflicting Activities:** The agencies shall not engage and not allow their personnel to engage, either directly or indirectly, in any business or professional activities which would conflict with the activities assigned to them under this contract.
 - i. The agencies shall keep safe, secure, confidential and protect from unauthorized access, loss or damage all demographic information, and all documents, data and information of any nature provided to the agencies for the discharge of services.
 - ii. The agencies shall not store, copy, publish, print, interfere, tamper with or manipulate the information/data received from C-DAC, other than that required for discharge of services.
 - iii. The agencies shall not give access to the information or data collected and received from C-DAC in the course of discharge of services, to any person who is not authorized to handle the information or data. Information should only be given to authorized personnel and only used in the manner prescribed by the C-DAC.
- c. **General Confidentiality:** Except with the prior written consent of C-DAC, the agencies and the Personnel shall not at any time communicate to any person or entity any confidential information acquired, stored and received from C-DAC in the course of the Services, nor shall the agencies and the Personnel make public the recommendations formulated in the course of, or as a result of, the Services.
- d. **Accounting, Inspection and Auditing**



- i. The agencies (i) shall keep accurate and systematic accounts and records in respect of the Services hereunder, in accordance with internationally accepted accounting principles and in such form and detail as will clearly identify all relevant time changes and costs, and the bases thereof, and (ii) shall periodically permit C-DAC or its designated representative and/or C-DAC, and upto five years from expiration or termination of this contract, to inspect the same and make copies thereof as well as to have them audited by auditors appointed by C-DAC or C-DAC itself as the case may be.
- ii. C-DAC shall have the right to carry out inspection checks, audits of the agency's premises and/ or locations, facilities, or point of delivery of services performed under this contract.
- iii. C-DAC shall have the right to carry out scheduled/ un- scheduled visits to any of the locations, premises & facilities and oversee the processes and operations of the agencies.
- e. **Sub- contracting:** The agencies shall not be permitted to sub-contract any part of its obligations, duties, or responsibilities under this contract without the prior written approval of C-DAC.
- f. **Reporting Obligations:** As per terms and conditions mutually agreed at the time of award of work.
- g. **Rights of Use:** All rights of use of any process, product, service, or data developed, generated, or collected, received from C-DAC or any other task performed by the agencies under the execution of projects awarded under this contract, would lie exclusively with C-DAC or its nominated agencies in perpetuity free from all liens, encumbrances, and other third party rights and the agencies shall, wherever required, take all steps that may be necessary to ensure the transfer of such rights in favour of C-DAC or its nominated agencies.
- h. **Safety & Security of Data, Premises, Location/site**
 - i. The Data, information, documents provided by the C-DAC to the agencies is the property of C-DAC. The agencies shall display due diligence in the handling of the said data and be responsible for the Data, thus provided.
 - ii. The agencies shall not use the information, the name or the logo of C-DAC and or Government of India without authorization of C-DAC.
 - iii. The agencies shall not use and/or transmit any information, data, layouts, designs, diagrams, storage media (hard disk/tapes) or any other goods/material in physical or electronic form, which are proprietary to or owned by the C-DAC, without prior written permission from the C-DAC.
 - iv. The agencies shall follow the Security Guidelines issued by C-DAC.
 - v. The agencies would be governed by the provisions of the Law of the Land, including but not limited to the IT Act and other relevant Acts.
 - vi. C-DAC reserves the right to carry out third party Audits of the agencies to ensure compliance of stated and implicit requirements.
 - vii. The rogue behavior of the employees of agencies shall fall under the 'Unlimited liability' to the agencies.
- i. **Equipment & Materials** Provided by the agencies: Equipment or materials brought by the agencies and the Personnel and used either for the Project or personal use shall remain the property of the agencies or the Personnel concerned, as applicable. However, Equipment or materials bought/provided by C-DAC for the use of agencies shall remain the property of C-DAC.
- j. **Intellectual Property Rights (IPR):** C-DAC/its client shall own the IP Rights of the software solution developed by agencies except the pre-existing IP.
- k. **Assignment:** The agencies shall not assign, in whole or in part, any of their obligations under this contract without prior approval of C-DAC.



- l. **Agencies Personnel:** The agencies shall employ and provide qualified and experienced personnel as are required to carry out the Services. Upon engagement, successful agencies will appoint a technically competent person (Project Manager/Relationship Manager) as single point of contact (SPOC) for interaction with C-DAC.
- m. **Development Sites**
 - i. Development work can be carried out at C-DAC, agencies premises or at C-DAC's client site.
 - ii. Based on the mutually agreed terms for specific work orders, the service provider may have to undertake travel of key resources to the project site for a specific phase of project as per the requirement of the project.
 - iii. In case the development work is required to be carried out at agencies premises the required infrastructure will be provided by agencies. C-DAC personnel may be contacted over telephone, VC, messenger etc. During development phase, visits by C-DAC and agencies's personnel to each other's premises may be arranged whenever required.

5. Roles and Responsibilities of agencies

The roles and responsibilities of engaged agencies are given below. However, the prospective agencies may please note that these are only brief and indicative in nature.

- a. The agencies should jointly execute project with C-DAC with the appropriate in-house technical expertise mentioned while applying to this EoI.
- b. Follow the milestones set for achieving the completion of the project in time while adhering to quality parameters and acceptance criteria stated in SoW.
- c. To ensure the timely submission of task completion report to C-DAC.
- d. To raise invoice to C-DAC based on the task completion report signed by the client.

6. Role and Responsibilities of C-DAC

- a. Develop positive working relationship with agencies to build business.
- b. To discuss and set milestones for the project based on the agreed schedules with the client from whom the work order is received.
- c. To set targets of the agencies based on the milestones set above.
- d. To monitor the delivery of the milestones and take corrective action if any.
- e. To realize the money from the client based on the acceptance of the task completion report from the client.
- f. Payment to the agencies based on the invoice raised as agreed in the SoW.

7. Allocation and Award of Work

a. Selection of agencies for a specific Work Order

- i. C-DAC at its discretion, will publish initial requirements relating to any project to the shortlisted agencies. The requirements will inter alia include scope of application to be developed by agencies and maintenance support required for the same for a predetermined time period on need basis.
- ii. Based on requirements, bids will be invited from shortlisted agencies. The bids will detail the approach to be followed to meet the requirements. The bids should also include the number and qualifications of the resources that will be provided for this requirement. These bids will be evaluated on Quality based selection. Detailed evaluation criteria will be indicated in the bid and would vary from Application to Application to be developed by agencies.
- iii. The agencies will also submit the estimated effort and time required for completion of work. Adherence to Acceptance Criteria would form an important parameter for evaluation and details of same would be provided in bid document.



b. Performance Evaluation of the agencies

- i. C-DAC will periodically and at the end of every project evaluate the performance of the agencies.
- ii. Evaluation will be based on the following:
 - a. Quality of Estimation and Scope Management. Effort estimate of approved “Change Requests” shall
be added to initial estimate to come up with revised estimate.
 - b. Adherence to development schedule.
 - c. Quality of people deployed on the project.
 - d. Degree of use of tools. It is desirable to maximize use of tools for higher productivity and homogeneity of quality of deliverables.
 - e. Number and type of defects identified during User Acceptance Testing and Go-live.
 - f. Quality of communication with C-DAC.

(End of Section – III)



ANNEXURE – A: COVERING LETTER

(To be submitted in original on letterhead)

Date:

To
The Executive Director
Centre for Development of Advanced Computing (C-DAC)
Innovation Park, Panchavati, Pune – 411008
Subject: Submission of EoI for shortlisting of agencies

Dear Sir,

We hereby submit our proposal in response to the invitation for Expression of Interest (EoI) No. [CDACP/EoI-QT/22-23/345](#) published on 01/06/2022 for the areas mentioned below. Kindly tick the appropriate mode of engagement:

- Collaborative Development Partner (CDP)
- Training Partner (TP)
- T&M

Please find enclosed herewith the below listed documents, as required.

1. Authority Letter (Annexure – B)
2. Organizational Details (Annexure - C)
3. Details of the skilled manpower on our roll
4. Experience of Organization (Annexure - D)
5. Bid Declaration Format (Annexure – E)

We hereby declare that all the information and statements made in this proposal are true and we accept that any misinterpretation contained in it, may lead to our disqualification.

We agree to abide by all the terms and conditions of the EoI document. We would hold the terms of our proposal valid for 90 days as stipulated in the RFP document.

We also undertake that we are not blacklisted or debarred from bidding process, by any Educational/R&D /Govt. Organization, as on date of submission of the bids and that there have been no regulatory actions initiated /pending against us as on the date of release of EoI.

We also undertake that, we shall not use the technology developed under this project for any reverse engineering purposes, for a period of at least one year from the date of completion of project deliverables. We agree that the IPR of the technology developed will vest with C-DAC perpetually.

We understand you are not bound to accept any bid you receive.

Sincerely Yours,

Signature of the Competent Authority (with date)

(full name)

(designation)/Stamp



ANNEXURE – B: AUTHORITY LETTER

(To be submitted in original on letterhead)

Date:

To

The Executive Director
Centre for Development of Advanced Computing
Innovation Park, Panchavati, Pashan, Pune – 411008

Subject: Authority Letter

Reference: EoI document no. CDACP/EoI-QT/22-23/345, dated 01/06/2022.

Dear Sir,

We, M/s _____ (Name of the prospective agencies) having registered office at _____ (address of the prospective agencies) herewith submit our proposal against the said EoI document.

Mr./Ms. _____ (Name and designation of the signatory), whose signature is appended below, is authorized to sign and submit the proposal documents on our behalf against said EOI.

Specimen Signature:

The undersigned is authorised to issue such authorisation on behalf of us.

For M/s _____ (Name of the prospective agencies)

Signature and company seal

Name

Designation

Email

Mobile No.



ANNEXURE – C: ORGANIZATIONAL DETAILS

Sr. No.	Information heading	Details
1	Name of the prospective agencies	
2	Name, designation, e-mail and mobile number of contact person	
3	Address of Head Office/Registered Office	
4	Details of Branch offices, Regional Offices, if any	
5	Total number of employees on roll	
6	Nature of Business – like manufacturer, trader, agencies etc.	
7	Details of products, technologies or services you are presently dealing with	
8	List of Prospective technology Associates/ Partnerships	
9	Organizational Chart (please attach separate document)	
10	Organizational Certifications and Accreditations	
11	Any other information	

For M/s _____ (Name of the prospective agencies)

Signature and company seal

Name

Designation

Email

Mobile No.



ANNEXURE – D: EXPERIENCE OF ORGANIZATION

The following information must be submitted in the form of an Affidavit on stamp paper of appropriate value.

Experience of organization in terms of orders/contracts/projects.					
S. No.	Brief Description of scope of Project	Project Details (Name of the Project Start Date & End Date, Current Status, Contract Tenure, Type of Project	Number of assignments during last 5 (five) years	Order Value of each assignment in INR (enclosed copy of each order)	Mention the name of Client/ Organization. Name of the Contact Person and Contact details for the Project (enclosed completion certificates)
1.	Experience in carrying out assignments in Government sector				
2.	Experience in carrying out assignments in Private sector				

Signature of the Applicant/Authorized Signatory

(Full name of the Applicant/Authorized Signatory)

Stamp & Date



ANNEXURE– E: BID SECURITY DECLARATION FORMAT

To
The Executive Director
Centre for Development of Advanced Computing
Innovation Park, Panchavati, Pashan Road, Pune – 400118

Subject: Undertaking as per GFR – 2017, Rule 170(iii)

Dear Sir,

We, the undersigned, offer to provide the Products/**Items/ components/ Services etc.**, in response to your EoI No [CDACP/EoI-QT/22-23/345](#), dated 01/06/2022. We are hereby submitting our proposal for same, through www.eprocure.gov.in. As a part of eligibility requirement stipulated in said EoI document, we hereby submit a declaration in lieu of Earnest Money Deposit (EMD), as given below:

1. Our proposal shall remain valid for 120 days from the date of submission.
2. In case, we are declared as successful bidder and an order is placed on us, we will submit the acceptance in writing within 7 days of placement of order on us.
3. In case, we are declared as successful bidder and an order is placed on us, we undertake, to submit a Performance Security of 3 % of the order value, at the time of RFP process.
4. In case of failure on our part to comply with any of the above said requirements, we are aware that we shall be declared as un-eligible for said EoI and /or debarred from any **future bidding process of C-DAC & Other Govt. Institutes for a period of minimum one year.**
5. The undersigned is authorized to sign this undertaking.

Yours sincerely,

Authorized Signatory:

Name and Title of Signatory:

e-mail:

Mobile No:

(END OF DOCUMENT)