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Ref: CDACB/RD24/094

Date: 03.02.2025

Ref: e-Tender No. CDACB/RD24/094 dt. 01.01.2025 for Supply, Installation & Commissioning of Superconducting Qubits based Quantum Computing Facility at Electronic City, Bangalore.

e-Tender id : 2025_DIT_842193_1

Sub: Corrigendum II – Extension of the due date and amendment to the terms of the tender

Dear Sir/Madam,

Reference is made to our Tender No. CDACB/RD24/094 dt. 01.01.2025 for Supply, Installation & Commissioning of Superconducting Qubits based Quantum Computing Facility (50 to 100 Qubits) at C-DAC Bangalore, Electronic City. As part of the tender process, a pre-bid meeting was conducted on 10.01.2025 to address queries and provide clarifications to prospective bidders.

The list of responses to the queries raised during the pre-bid meeting is attached at **Annexure – II**

Based on the queries, discussions and considerations, certain terms of the tender have been amended and the same is attached at **Annexure – III**

To provide bidders with adequate time to review the clarifications, amendments and submit their proposals, the due date for bid submission stands extended to 14:00 Hrs on 25.02.2025, and the opening of bids is scheduled for 14:30 Hrs on 26.02.2025.

No further queries or clarification requests shall be entertained.

All other terms and conditions of the tender remain unchanged.

**Manager (Admin.)
Materials Management Group**



ANNEXURE II

Replies to the queries raised during Pre-Bid meeting.

Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
Replies to Queries					
Eligibility criteria's	1	Section II: General Conditions of Contract (GCC) , page 11	4.8	<p>It can be understood from Section II that a bidder who cannot fulfill this requirement will not eligible to bid and will be excluded. Later, Section III / 1.3 Technical Evaluation Criteria gives zero Marks for 0-1 installation (under Else) and refers to chapter 4.9 (should be 4.8). This is a bit contradicting.</p> <p><i>Recommendation:</i> we would like to see that failing to fulfill this criteria would not mean excluding the bidder. It could be relaxed down to 20 qubits or removed completely</p>	<p>The purpose of this facility is to function as a reference facility which has to be based on an existing equivalent or similar facility in terms of scale & complexity. Meeting this criterion showcases the bidder's capability to successfully execute the project while ensuring that the selected vendor has prior experience in deploying systems of similar scale and performance. This clause is included to maintain the completeness of the criteria.</p> <p>The section 1.3 Technical evaluation criteria - sub-point 1.2 Project experience - to be read as : "(Also please refer section II - criteria 4.8)"</p>
Eligibility criteria's	2	Section II: General Conditions of Contract (GCC) , page 10	4.7	<p>It can be understood from Section II that a bidder who have not had in each last three years minimum of Rs 300 crores sales turnover will be excluded. The evaluation criteria's has just annual turnover and net worth.</p> <p><i>Recommendation:</i> we would like to have a lower minimum limit and clarification whether a bidder is disqualified if this eligibility criteria is not met</p>	<p>This requirement has been changed to Rs. 150 crores. In case of a consortium, from the total turnover projected, the primary bidder's share should be at least 30%. of the above turnover. However, the total cumulative turnover of all the members should be Rs. 150 Crores for last three years.</p>



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
Security Deposit	4	Section III: 3. Security Deposit (SD), page 19	3	It is not informed whether 5%'s SD of the order value is calculated from the total price (incl. Taxes customs) or from the net price. <i>Recommendation:</i> please clarify this and the SD should be calculated from the net price	The 5% SD of the order value shall be calculated of the total order value.
Performance Bank Guarantee	5	Section III:4. PBG, page 20	4	It is not clearly informed whether the value of PBG is calculated from the total price (incl. Taxes and customs) or from the net price. 10% of value is a quite high for PBG - would 5% be possible for C-DAC? <i>Recommendation:</i> please clarify. We would appreciate lower PBG value which is calculated from the net price	The PBG value will be calculated on the total order value. 5% will be considered.
Amplifiers	6	Section IV: 1.1 Core Components, p. 40	1.1	We would like to understand why we must provide cryogenic electronic components such as TWPA and HEMT amplifiers, isolators, attenuators, etc., for 100 qubits or more? <i>Recommendation:</i> please relax this requirement for the number of proposed qubits	The required cryogenic electronic components should be provided for atleast 100-qubit capacity on the DR provided. Other components like DR Wiring, Control Electronics etc. shall be provided for the offered QPU size.
Dilution Refrigerators and Cryogenic Systems	7	Section IV: 1.2 Dilution Refrigerators and Cryogenic Systems, p. 40	1.2	We would like to understand why the active vibration dampening is required. Based on our experience, the passive vibration dampening is sufficient for superconducting systems <i>Recommendation:</i> please request only passive vibration dampening	Requirement for both active and passive vibration damping will remain unchanged.
Dilution Refrigerators and Cryogenic Systems	8	Section IV: 1.2 Dilution Refrigerators and Cryogenic Systems, p. 40	1.2	The RFP requires the bidder to provide water chiller, gas leakage detector, compressed air supply unit, UPS etc. Typically such infrastructure requirement is provided by the hosting facility. <i>Recommendation:</i> Please remove the requirement to provide for water chiller, gas leakage detector, compressed air supply unit, UPS etc.	As this is a reference facility, it must remain stable and fully functional; therefore the requested components are necessary and hence, the requirement remains unchanged.



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
Physical and Cybersecurity	9	Section IV: 1.6 Environmental Monitoring and Control, Physical and Cybersecurity, p. 43	1.6 (also on Section III / 6.2)	The RFP requires the bidder to provide Access Control Systems, Surveillance Systems (CCTV, Motion Detectors), Fire Suppression System. Typically such infrastructure equipment is provided by the hosting facility. <i>Recommendation:</i> Remove the requirement to provide for Access Control Systems, Surveillance Systems (CCTV, Motion Detectors), Fire Suppression System	Requirement to provide these components will remain unchanged.
Maintenance Tools and Spare Parts	10	Section IV: 1.8 Service and Maintenance, p. 43	1.8	We would like to understand what must be included in the set of maintenance tools and spare parts for routine upkeep and emergency repairs. Why it is required to provide two sets instead of one? <i>Recommendation:</i> please clarify and please reduce required number of sets to one (1)	The requirement to provide two sets of maintenance tools and spare parts is to ensure the continuous operation of the system without any delays, particularly in case of a failure. Having two sets allows for immediate access to essential tools and parts, even if one set is in use or unavailable due to unforeseen circumstances. The SLA specifies an 8-hour response time and 72-hour resolution time as outlined in the RFP. The additional set of tools and spare parts acts as a safeguard, minimizing downtime and ensuring rapid recovery during both routine maintenance and emergency repairs. The requirement remains unchanged.
Lowest bidder criteria	11	Section II: 13. 2 Award of Contract p13	13	Quote from the doc: "If more than one bidder happens to quote the same lowest price in the financial bid, C-DAC reserves the right to place the order on the eligible bidder having larger sales turn-over for last financial year. The decision of C-DAC shall be final." If there is a group of companies bidding together, does their combined turn-over count in? <i>Recommendation:</i> allow group of partners to have combined figures	Yes, however the Primary bidder will be responsible. Necessary Corrigendum with respect to Consortium clause is being published



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
Control lines with an output up to 10 dBm, SFDR <- 40 dBc, phase noise <- 110dBc/Hz	12	SECTION III: 7.3. Control Electronics Parameters Also in section IV, 1.3 Control Electronics and Quantum Control System (QCS). P22 & 41	7.3.4. & 1.3	We would like to ask to modify the output power to "up to 5 dBm" <i>Recommendation:</i> A system output of 5 dBm, combined with the attenuation inherent in cryogenic setups is sufficient to meet operational requirements without risk of qubit saturation	While the requirement is for 10 dBm, systems operating at 5 dBm are acceptable as long as they adhere to and satisfy the QPU performance benchmarks outlined in the acceptance criteria. This ensures flexibility while maintaining the necessary operational standards.
Ambient operating temperature: 15 degrees to 40 degrees Celsius.	13	Section IV, 1.3 Control Electronics and Quantum Control System (QCS). P. 42	1.3	We would like to ask to modify the ambient operating temperature to "15 degrees to 30 degrees Celsius." <i>Recommendation:</i> We suggest to use 30 °C as max. ambient temperature limit to guarantee performance	The ambient operating temperature will remain as stated in the RFP to ensure performance and durability in all conditions where the facility is being located.
Ethernet (1 Gbps) and serial connection.	14	Section IV, 1.3 Control Electronics and Quantum Control System (QCS). P. 42	1.3	We would like to ask to modify the connectivity to "Ethernet (1 Gbps) or serial connection" or "Ethernet connection" only <i>Recommendation:</i> please have Ethernet (1 Gbps) as the sole communication interface	If Ethernet connectivity is supported, it fulfills the requirement.
Man-power deployment	15	Section III, 2	2	We find required on-site percentages very high for project manager and technical engineers in deployment and pre-acceptance stage. There will be a lot of waiting due to lead times of certain components and thus we feel it is not necessary to deploy project manager or engineers on-site while there is no related components available. We hope on-site requirement can be relaxed significantly, naturally we are fully committed to deploy needed people on-site when necessary	The requirement has been amended as follows: Project Manager - Atleast 6 man months required with 75% on-site deployment. Technical Engineers- Atleast 15 man months required with 75% on-site deployment. (One man-month refers to 160 hours (20 days/month × 8hrs/day) of productive contribution)



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
Frequency range: 0-10 GHz readout, control lines and flux lines for provided QPU.	16	SECTION III: 7.3. Control Electronics Parameters Also in section IV, 1.3 Control Electronics and Quantum Control System (QCS). P22 & 41	7.3.2 & 1.3	Does this refer to the combined frequency range supported by the system for driving and reading out superconducting qubits, as well as for sending flux pulses? The frequency required for flux pulsing qubits is in the baseband domain, while the frequencies for driving and reading out qubits are in the higher-frequency (GHz) range. It is best to specify the frequency requirements for each line individually, such as 0.2 to 10 GHz for control and readout lines and 0–400 MHz for flux lines. <i>Recommendation:</i> Please specify the frequency requirements for each line individually, 0.2 to 10 GHz for control and readout lines and 0–400 MHz for flux lines	The frequency range specified in the RFP is broad and covers a range from 0 to 10 GHz, accommodating all required lines. If a system provides separate frequency ranges for flux lines, readout lines, and control lines within this overall range, it is acceptable as long as the system meets QPU performance benchmark as mentioned in the acceptance criteria.
Relative Phase stability across multiple RF (3-8 GHz) output modules over 1 hr <2 deg.	17	SECTION III: 7.3. Control Electronics Parameters Also in section IV, 1.3 Control Electronics and Quantum Control System (QCS). P22 & 41	7.3.6. & 1.3	We recommend assessing phase stability over an extended period, such as 20 hours, for accurately evaluating phase stability <i>Recommendation:</i> We suggest to replace with "Relative Phase stability across multiple RF (3-8 GHz) output modules over 20 hr <2 deg."	Requirement remains unchanged
Taxes and fees	18	GST and custom fees		Are there any components or parts or anything else which are exempted from GST and / or custom fees when the buyer is C-DAC?	Not applicable
Payment schedule	19	Section III: p. 23	8	The selected bidder must order DR, wires and some other components immediately PO has received. The suppliers have certain payment schedules and thus we would like to see upfront payment of 40% of total value when the contract is signed or PO assigned <i>Recommendation:</i> upfront payment of 40% of total value when the contract is signed or PO assigned	No Advance Payments will be made.



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
Reconfigurable Control Hardware to support various qubit types: semiconductor spin, superconducting qubits	20	SECTION III (A): 1.3 Technical Evaluation Criteria. P. 30	5.1 Modularity of the proposed Control Electronics	<p>Different qubit designs may require varying frequency ranges depending on their operational needs. Therefore, it is essential to specify that the system must be reconfigurable and capable of incorporating additional modules as required for supporting new qubit types. For example, a baseband readout module may be necessary for reading out spin qubits. Some modules, however, may be versatile enough to support multiple qubit types if their frequency requirements overlap.</p> <p><i>Recommendation:</i> We suggest to rephrase with "Reconfigurable Control Hardware to support various qubit types upon the acquisition of additional required modules: semiconductor spin, superconducting qubits"</p>	To be read as "Reconfigurable Control Hardware to support various qubit types upon the acquisition of additional required modules: semiconductor spin, etc.,"
Flux lines output: ~ +/- 2 Vpp in a 50 ohm load.	21	SECTION III: 7.3. Control Electronics Parameters Also in section IV, 1.3 Control Electronics and Quantum Control System (QCS). P22 & 41	7.3.3	<p>The current phrasing of "Flux lines output: ~ ± 2 Vpp in a 50-ohm load" is unclear. Typically, output voltage is specified either as **±V** or **Vpp** (peak-to-peak). It is ambiguous whether the intended value is **2 Vpp** or **4 Vpp**.</p> <p>We recommend rephrasing the specification for clarity, such as: "±V" for peak voltage, or "Vpp" for peak-to-peak voltage. Additionally, it is highly advantageous to enable both flux pulsing and DC offset on each individual channel. A higher output range is critical to enable this. Therefore, we suggest increasing the specified value to even **5 Vpp** (+/- 2.5 V) to maximize capability.</p> <p><i>Recommendation:</i> We suggest to rephrase with "Flux lines output: ~ +/- 2.5 V (5 Vpp) in a 50 ohm load."</p>	To be read as "± 1 V (2 Vpp)"



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
Application Benchmark	22	Section III: 7.4 Application Benchmark, p.22	7.4.1	Quantum Volume (QV) is defined as 2^n (2 to the power of the number of qubits), not n. The current state-of-the-art for superconducting QPUs is about $QV=32$ ($n=5$). We therefore think that the requirement of "utilizing all the delivered qubits (n) in the QPU" is not achievable and suggest that this requirement is removed, and Sec. 7.4.1 is changed to "Demonstration of Quantum Volume benchmark", with the scoring proportional to the offered QV value. <i>Recommendation:</i> This requirement is removed and 7.4.1 is changed to "Demonstration of Quantum Volume Benchmark"	To be read as "Demonstration of Quantum Volume Benchmark of 2^6 or higher randomly utilizing the delivered qubits in the QPU".
Application Benchmark	23	Section III: 7.4 Application Benchmark, p.22	7.4.2	The phrase "the Randomized Benchmarking test suite" is not clear. If the customer does not refer to a particular test suite, we suggest that 7.4.2 is changed to "Demonstration of Randomized Benchmarking". <i>Recommendation:</i> 7.4.2 is updated to "Demonstration of Randomized Benchmarking"	To be read as "Demonstration of Randomized Benchmarking" as outlined in the following reference: https://doi.org/10.1103/PhysRevLett.106.180504
Application Benchmark	24	Section III: 7.4 Application Benchmark, p.22	7.4.3	A popular QAOA application is, i.e., the maxcut problem. The state of art for QAOA maxcut is about 10 qubits for a fully connected graph. We therefore think that the requirement of "utilizing all the delivered qubits in the QPU" is not achievable and suggest that this requirement is removed and Sec 7.4.3 is changed to "Hybrid Classical – QC : Demonstration of QAOA maxcut application", with the scoring taking into account the graph complexity as well as size. <i>Recommendation:</i> the original requirement should be removed and 7.4.3 changed to "Hybrid Classical - QC : Demonstration of QAOA maxcut application" with the scoring taking into account the graph complexity as well as size	Requirement remains unchanged



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
Application Benchmark	25	Section III: 7.4 Application Benchmark, p.22	7.4.4	<p>We think that the topic of quantum error correction does not belong to application benchmarks. In addition, we note that error correction is still mostly a research topic (e.g. surface codes), with only one company (Google) having demonstrated a prototype. We therefore suggest that Sec. 7.4.4 is removed from Sec 7.4. and propose a co-development project together with C-DAC on the topic of quantum error correction.</p> <p><i>Recommendation:</i> QEC should be considered more as a co-development project than hard requirement for tender, and should be removed from the acceptance criteria</p>	<p>The requirement remains unchanged. Error correction can also be proposed as a co-development project.</p>
Project Timelines and acceptance	26	Section I: 1.1.2 Project Deliverables, p.4	1.1.2	<p>It is stated that deployment and commissioning phase is 9 months from the date of PO and later below "including acceptance from CDAC based on the specified acceptance criteria". Due to lead times, the delivery and installation phase is estimated to be 9 months but the 2nd milestone, the acceptance, requires extra time as the installed QPU must be calibrated and tuned-up. This typically takes 3-6 months.</p> <p><i>Recommendation:</i> please clarify and allow the bidder to have sufficient time to calibrate and tune-up the system before the acceptance test is completed.</p>	<p>Requirement remains unchanged</p>



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
Direct FPGA access provision to implement decoding algorithms towards error correction.	27	Section IV, 1.3 Control Electronics and Quantum Control System (QCS). Also in section III (A): 1.3. Technical Evaluation Criteria. P25 & 42	5.2	At the current stage of development, real-time quantum error correction (QEC) is not fully supported. Users can, however, perform post-processing of the data to achieve offline error correction. While future developments will enable real-time QEC, this functionality may not necessarily rely on direct FPGA access. Therefore, we recommend to remove this requirement. <i>Recommendation:</i> we suggest to rephrase with "Framework to support the future capability of running decoding algorithms on an FPGA towards error correction". This should not be an acceptance criterion but rather considered as a future capability to support demonstrating QEC on the qubits, earning extra points.	Requirement remains unchanged
Eligibility criteria	28	SECTION II: 4. Eligibility Criteria	4.8	Is it acceptable that the Principal Manufacturer (rather than the Indian subsidiary) has installed and commissioned the facilities?	Yes
Eligibility criteria	29	SECTION II: 4. Eligibility Criteria	4.8	What is an acceptable "certificate" from a client, e.g. a simple letter affirming that the bidder has delivered the specified facilities?	Certificate from a client on their letter head stating the commission date, no of qubits, location and other relevant details.
Site Specifications	30	SECTION II: 1. Location for the supply, installation & warranty services	1	Provide the site-requirement	The site diagram has been provided in the corrigendum
General	31			Question of Corrigendum	The corrigendum has been released.
	32	Annexure G: IT Hardware & Software SECTION IV: 1.5 Networking & Power Systems	Annexure G: 6 SECTION IV: 1.5	In Annex G under IT Hardware and Software, item 6 is Networking and Power Systems, and item 7 is Quantum Access Node. IV.1.5 specifies Quantum Access Node as "Networking Equipment for integration with existing IT infrastructure". What is a "Quantum Access Node", and how are items 6 and 7 different?	Quantum Access Node is a classical system that will be interfacing between HPC and Quantum Computer via any additional Networking hardware required(eg. ethernet switch etc.)



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
	33	SECTION I: Instructions to Bidders 4.1: Technical bid shall contain	4.1 (j)	In Section 1.4.1.j it is stated that "In case the bidder offers/bids for all the items - the MAF & other conditions must be fulfilled by the bidder to qualify for further processing" --what is "MAF"?	Manufacturer's Authorization Form (MAF) is a document from OEM, that a bidder must submit along with the bid. The MAF verifies that the bidder is authorized partner of OEM for supply and service of offered product & is authorized to supply the quoted OEM products against the bid.
	34	SECTION III: 7. Acceptance Criteria	7.3.7	in several places you mention "Low latency feedback <400-600 ns". Does this also apply to feedforward?	The spec applies to feedback as mentioned in the RFP
	35	Annexure J		Annex J #16 specifies "Duly filled compliance statements and BoM Tables"--what are these?	Compliance to be provided as per Annexure G
	36	SECTION III: 1. Prices	1.6	III.1.6 says "the exact rate of taxes, charges, currently applicable must be mentioned in the commercial bid format. The statutory taxes applicable at the time of supply of the material shall be applicable." Can you provide more information on these statutory taxes?	Statutory taxes are taxes that are applicable during the billing in India
	37	SECTION IV: 1. Detailed Specifications SECTION V: Price Bid SECTION III(A): Evaluation Process	1.2, 1.5	UPS is mentioned in IV.1.2 and IV.1.5 but not in III(A) or in V. Is UPS required?	Yes UPS is required
	38	Section 1.4.1.f/ Page 8		Is it permissible to participate in this tender as a Joint Venture (JV) or consortium? If so, can the average annual sales turnover requirement be met collectively by combining the financial certificates from all participating entities in the JV or consortium?	Consortium bidding is allowed. Corrigendum to this effect is published
	39	Section 1.1.7/Page 6		What specific areas of co-development are expected under this clause? For example, does it involve hardware design, software development, algorithm optimization, or all of these?	This has been indicated in the corresponding section of RFP



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
	40	Section 1.1.2/ Page 4 & Section II GCC Clause No 2		Supply, installation and commissioning period of 9 months should be increased to minimum 18 months	Responded to Query No. 26
	41	Section 2.4.8/ Page 11		Can bidders who have deployed systems of fewer than 50 qubits, but with significant operational expertise, still qualify for the tender?	Response same as Sl. No. 1
	42	Section 3.7.3/ Page 22		Does the requirement for control electronics to be 'further scalable to 250 qubits' mean that only the electronics for the initially offered qubits (e.g., 50-100) must be provided upfront, with the ability to add modules later? Or is it mandatory to provide the full capacity (250 qubits) from the beginning?"	Bidder is required to provide for the number of qubits being offered. However, the system must include a scalable architecture, ensuring that the control electronics and overall design can accommodate future expansions.
	43	Table 2.2/ Page 26		In our opinion, this table should be reconsidered. From this table it is very clear & understandable that CDAC wants to ensure that the project is completed smoothly and timely. However, it is only the bidder who can fully foresee, plan & optimise HR deployment for timely and smooth completion of the project. Therefore, we feel that the manpower deployment etc should be left to the discretion of the bidder itself. Besides, it must be noted that there are very stringent clauses which indemnify CDAC on financials e.g. payment schedule (even upon delivery of all hardware items only 60% of the contract value is paid to the bidder), LD clauses, Bank Guarantees etc. Such stringent clause on manpower deployment will have a significant impact on the project cost.	Please refer to responses for queries Sl. Nos 15 & 44



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
	44	Table 2.3 of 1.3 - Technical Evaluation Criteria	Section III (A), 2	<p>The tender specifies that, post acceptance, bidder is required to have minimum two support engineers (72 man months over a period of 3 years of warranty) with on-site deployment of 95%. We request CDAC to consider amending this clause to enable on-line remote support and on-site support as and when needed. Such stringent clause on manpower deployment will have a significant impact on the project cost.</p>	<p>The terms have been changed as follows: Post acceptance, bidder is required to provide 3 years warranty. This includes 18 months of onsite support and the remaining 18 months remote support along with one physical visit of the support team per quarter.</p> <p>The requirement for on-site support is as follows: The bidder is required to have minimum two support engineers (36 man months over a period of 18 calendar months of on-site warranty) with on-site deployment of 95%.</p> <p>Correspondingly, the section III – item (6), ‘Comprehensive onsite support and maintenance’ should be read as follows:</p> <p>Comprehensive support and maintenance: The support and maintenance should be comprehensive support, repair/replacement basis free of cost for minimum of 3 years from the date of acceptance of the solution (18 calendar months of on-site warranty & 18 calendar months of on-demand remote support).</p> <p>(One man-month refers to 160 hours (20 days/month × 8hrs/day) of productive contribution)</p>



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
	45	Section IV/ Page 40		The technical specifications for Dilution Refrigerator specify plate diameter of ≥ 500 mm. This clause excludes some Dilution Refrigerator manufacturer who provide modular systems with plates in rectangular shape. Therefore, in order to give opportunity to all vendors, we request CDAC to consider amending this clause to specify only the plate area instead of the plate diameter.	To be read as "plate area of atleast 1960 sq.cm"
	46	Section IV/ Page 40		Several modular Dilution refrigerator manufacturers use Double Helium traps to filter impurities instead of the Liquid Nitrogen trap. We request CDAC to consider amending this clause to state Liquid Nitrogen trap/Double Helium trap so that all vendors can participate in this tender.	To be read as "liquid nitrogen trap or equivalent"
	47	Section 7.3, Control Electronics Parameters	7.3.2. Frequency range: 0-10 GHz readout, control lines and flux lines for provided QPU	<p>The control and readout frequency of a superconducting qubit circuit is typically determined by the qubit design parameters for control and readout resonator coupled to the Qubit. This frequency is usually in the microwave range, often between 4 to 8 GHz (refer - Quantum Engineer's Guide to Superconducting Qubits, attached in my email). Most of the mainstream qubit designs in the recent times are operating at this frequency range. Additionally, for the system delivery QPU will be matched with the control electronics by the integrator for best performance.</p> <p>Given these facts, will you accept quantum control electronics frequency to be between the recommended frequency range of 4-8 GHz, by the above referenced paper published?</p>	Response same as Sl. No. 16



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
	48	SECTION IV: SCHEDULE OF REQUIREMENTS Page No: 40	1.1 Amplifiers Amplifiers: Cryogenic electronics to support QPU performance including travelling wave parametric amplifiers (TWPA), HEMT amplifiers, isolators, circulators, attenuators etc. These shall be provided for supporting 250 qubits or more	Could you please clarify the Quantity of amplifiers (TWPA and HEMT) needed along with the full set of amplifiers, circulators, isolaters?	Response same as Sl. No. 6



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
	49	SECTION IV: SCHEDULE OF REQUIREMENTS Page No: 40	1.2 Fully functional Dilution Refrigerators and Cryogenic Systems Full capacity DC wiring for supporting the qubits offered and further scalable to 250 qubits.	Could you please clarify what is the Quantity of DC lines required for 250 qubits	DC wiring should be provided for supporting the qubits offered and further scalable to 250 qubits.



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
	50	SECTION III (A): EVALUATION PROCESS Page No:28	1.3. Technical Evaluation Criteria 3.4 High Density wiring solutions for QPU with each flexible cable supporting at least 4 Channels (with a total of at least 16 channels)	(No. Of cables supporting at least 4 channels each) could you please clarify what is being referred to as Channels here?	The reference to cables supporting at least 4 channels pertains to RF lines used in high-density wiring solutions. Specifically, each cable should be capable of supporting at least 4 RF channels. This requirement ensures efficient high-density wiring for the QPU, meeting the criteria outlined in the RFP.



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
	51	ANNEXURE G – TEMPLATE FOR CONFORMITY TO SCHEDULE OF REQUIREMENTS page No:66	Dilution Refrigerator Sl.No 9: Passive Vibration Dampening	Please clarify if active vibration damping should also be added here? In Section IV schedule of requirements It is mentioned as passive and active vibration dampening in - 1.2 Fully functional Dilution Refrigerators and Cryogenic Systems.	Annexure G: Dilution Refrigerator, item 9 - To be read as "Active and Passive dampening"
	52	ANNEXURE G – TEMPLATE FOR CONFORMITY TO SCHEDULE OF REQUIREMENTS page No:66	Dilution Refrigerator Sl.No 11:	Please clarify if UPS should also be added here? It is mentioned in Section IV schedule of requirements in - 1.2 Fully functional Dilution Refrigerators and Cryogenic Systems -System shall include relevant sub-components like vacuum turbo pump (if external needed), water chiller, gas leakage detector, compressed air supply unit, UPS etc	Response same as Sl. No. 8
	53	section 1.1.3		In section 1.1.3 service contract "Access to QPU fabrication facility for co-development initiatives by CDAC" - does this refer to CDAC Fab or supplier's Fab?	Suppliers Fab
	54	scope of procurement 1.1.1		As mentioned in scope of procurement 1.1.1, the intent of the system is for component benchmarking (which is great) but it also talks about SW and algorithms, which requires a stable system that is not warmed up often. What is the expectation from the system for each of these goals	After the initial commissioning, further exploration of various scenarios and configurations is necessary to fully assess the capabilities and services of the reference facility. Therefore, this requirement is unchanged.
	55			What facilities/services (power, water, etc) will be provided by CDAC at the preferred location and what will be expected from the supplier (in terms of site construction prior to system installation)	C-DAC provides power and water at the specified location.
	56	Site-Requirement		With respect to the above tender we would like to know the site location	Vendor is required to commission the facility at C-DAC Premises with existing specifications at the
	57			Site to comply with acoustic Noise of < 75 db / 1 meter.	



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
	58			Sound absorbing walls are recommended if there are personnel working regularly in spaces next to the installation location.	specified location.
	59			No drain pipes are allowed on the ceiling above the system.	
	60			No fluorescent lighting is recommended inside a 2 m radius around the cryostat.	
	61			The installation location is required to have physical and digital access control compliant to that specified in ISO 27000 or equivalent	
	62			Floor strength of 1000/ mtr2 .	
	63	SECTION III: 8. Payments		We request CDAC to release 40% of the payment along with purchase order. –Reason being the technology requested in very new, In India CDAC will be the 1 st institute to have a Superconducting Qubit Processor. We need to pay advance to vendors to procure the components for the machine . As per GFR 172 we have a provision to pay vendor 40% advance for these kind of high end equipment purchase.	Response same as Sl. No. 19
	64	SECTION IV: 1. Detailed Specifications	1.1	Qubits offered should be fully connected or fully functional	Fully connected qubits
	65	SECTION II: 4. Eligibility Criteria	4.8	No. of Installations	Response same as sl. 1
	66	SECTION III(a): 1.3 Technical Evaluation Criteria	4.9	DR Cooling required expected < 6mK is with load or without load	The guaranteed base temperature offered should be considered with load.
	67	SECTION III: 1. Prices	1.2	Is this tender open for global, all the international companies, or this is mostly aiming for local indian companies	Currently, this is a tender to be quoted in INR
	68	General		Timelines after this local tender	Timelines will change as per the issued corrigendum



Item	Srl	Section / Page No	Clause Reference	Query from bidder	C-DAC Response
	69			Annexure G Cooling power at 100 mK >400 uW	Annexure G: Dilution Refrigerator item 4: To be read as "Cooling power at 100 mK >=850 uW"
	70			Annexure G Amplifiers: Cryogenic electronics to support QPU performance including travelling wave parametric amplifiers (TWPA), HEMT amplifiers, isolators, circulators, attenuators etc. These shall be provided for supporting 250 qubits or more	Annexure G: Superconducting QPU item 11: To be read as "Amplifiers: Cryogenic electronics to support QPU performance including travelling wave parametric amplifiers (TWPA), HEMT amplifiers, isolators, circulators, attenuators etc. These shall be provided for supporting 100 qubits or more"
	71			Drawing of the site	Provided
Additional Queries	72	Annexure H		Item Description	To be read as Supply, Installation & Commissioning of Superconducting Qubits based Quantum Computing Facility (50 to 100 Qubits) at C-DAC Bangalore, Electronic City
	73	Srl No. 4 of Document check list at Annexure J			To be read as Annexure J

Srl	Query No.	Change / revision in Clause	Remarks
1	2	Eligibility Criteria, Clause No. 4 under Section II, General Conditions of Contract revised	Revised Eligibility Criteria, Clause 4
2	38	Additional consortium clause under Section I, Instruction to Bidders	Clause 6 - Consortium bidding Added
3		Additional MII clause Add under Section I, Instruction to Bidders	Clause 7 – MII Content, added
4		Additional Clause of Submission of Bids by Foreign Bidders under Section I, Instruction to Bidders	Clause 8 – Foreign bidders; added
5	5	Clause 4, Section IV Performance Bank Guarantee (PBG)	Percentage of PBG is revised from 10% to 5%.
6	71	Drawing of the Site	Included
7		Document submission list at Annexure J, Document Check List a) Covering letter; Annexure A is revised b) Agreement of Consortium added c) Consortium Declaration added	Revised Annexure A added Consortium Agreement Proforma as per Annexure K Added Declaration as per Annexure L Added
8		SECTION III (A): (1.3 Technical Evaluation Criteria, 1, 1.1 & 1.2 amended	Annexure 1

Eligibility Criteria Clause No 4 under Section II, General Terms and conditions of contract is amended as below.

4. Eligibility Criteria

In case of consortium, these clauses apply to only the Primary Bidder, unless stated otherwise. Supporting documents for the eligibility criteria clauses need to be submitted by/for only the Primary Bidder, unless stated otherwise.

#	Criteria	Documents Required
1	Bidder(s) must be a Legal Entity i.e., a company incorporated in India under the Companies Act, 1956 or 2013 OR LLP Act 2008/ Partnership Act, 1932. OR A partnership firm registered under Indian LLP act	<ul style="list-style-type: none"> • Certificate of Incorporation / Memorandum of Association (MoA) / Article of Association (AoA) • GST registration certificate • PAN

	<p>2008. And subsequent amendments thereto.</p> <p>Bidder(s) must be Registered with the Income Tax (PAN) and GST Authorities in India with active status.</p>	<p>(In case of Consortium, PAN card for each Indian partner of Consortium and Verifiable Tax Residency Certificate of respective country for each foreign partner or Consortium itself). GST unregistered bidder: In case of Consortium, Bidder should submit scanned copy of GST status of Primary Bidder.</p> <p>In case of Foreign Bidder is consortium partner, a copy of Certificate of Incorporation, Partnership Deed / Memorandum and Articles of Association /any other equivalent document showing date and place of incorporation, as applicable to be submitted.</p>
2	<p>The bidder must be either a Principal Manufacturer (OEM – Original Equipment Manufacturer) of Superconducting quantum computing systems or their respective subsidiary, or their (OEM’s) authorized Quantum system integrator</p>	<p>If the bidder is an authorized system integrator, the specific authorization letter/s from Principal/s, as per Annexure - C must be submitted along with the technical bid. In this case the authorization letter (Annexure – C) issued by the Indian subsidiary of Principal Manufacturer is acceptable</p> <p>If the bid is submitted by the Indian subsidiary of Principal Manufacturer (OEM), the letter from Principal Manufacturer (OEM) must be submitted certifying that the bidder is the subsidiary company of the Principal Manufacturer (OEM) in India.</p>
3	<p>The bidder must have a minimum annual sales turnover of Rs.150 crores in India or abroad for each of the last three financial years.</p> <p>In case of consortium, the Primary Bidder should have minimum 30% of the above turnover clause. However, the total cumulative turnover of all the members should be Rs. 150 Crores for last three years.</p>	<p>Copy of audited statement of account (P&L account & Balance Sheet) duly certified by CA along with CA certificate stating the turnover. In case of consortium, these documents need to be submitted by all the partners</p>
4	<p>Bidder / consortium shall submit the undertaking that their entity: -</p> <p>Has not been under a declaration of ineligibility for corrupt or fraudulent practices and should not be blacklisted by any State Govt. / Central Govt. / Board, Corporations and Government Societies / PSU or any other Government organisations abroad for any reason as on date of bid submission.</p>	<p>Self-declaration duly signed by the authorized signatory on company letterhead as per Annexure A</p> <p>In case of consortium, this declaration needs to be provided by Primary Bidder on behalf of all the partners.</p>

5	Bidder / consortium to confirm they adhere to the Technical Requirements outlined in Schedule of Requirement IV	All Bidders to submit signed and stamped copy of Scope Compliance (Format as per Annexure G) In case of a consortium, all the consortium members have to sign the declaration to be submitted by primary bidder (Format as per Annexure – G and L)
6	The bidder must have installed and commissioned at least two superconducting qubit-based quantum computing facilities with a usable capacity of a minimum of 50 qubits. Of these, at least one installation must be a production system currently in use by clients. The bidder must submit certificate(s) from the client(s) as part of the bid document. In case of a <u>Consortium</u> , the No. of installations of any of the individual partners of <u>Consortium</u> shall be considered OR the installations of <u>Consortium</u> itself may be considered.	Copies of purchase orders and installation reports, as per eligibility criteria and any other documents in support of eligibility criteria
7	The bidder must quote for all the items mentioned in the schedule of requirements.	Declaration as per Annexure A
8	The bidder must supply a system with a modular design approach for different subsystems of the Quantum computing facility like Dilution refrigerator, QPU, Control Electronics, Software stack etc., listed in SECTION IV – Schedule of Requirements. The detailed design document highlighting the modularity aspects of the architecture, should be included in the technical proposal document	As in Schedule of Requirements detailed in Section IV
9	The bidder must submit all other documents whichever applicable as per Clause no.4.1; Section I – Instruction to Bidders (ITB)	Document Checklist – Annexure J.
10	The bidder should provide sufficient documentary evidence to support the eligibility criteria and exemptions mentioned in Clause no. 5 in Section II- General Conditions of Contract (GCC). C-DAC reserves the right to reject any bid not fulfilling the eligibility criteria.	

Additional Clause No. 6, under Section I, Instructions to Bidders,

6. Consortium Clause

Bidders are hereby informed that participation in this tender is now extended to consortia. The following terms and conditions are added in the subject tender w.r.t. Consortium bidding.

Bidding Consortium

1. The Consortium must enroll in the e-Procurement portal with the name of the firm as appearing in the Consortium agreement.
2. A consortium of partner companies can bid, with one of them designated as Primary Bidder and the other(s) as secondary. The maximum number of partners in a consortium will be 5 (Five).
3. A foreign bidder can be a consortium member, subject to the condition that the consortium as a whole meets the minimum local content criteria, as per the Make in India Order, 2017 and revised from time to time latest being the Order dated 17.01.2025. The leader of the consortium can be a foreign party, however bids are submitted in Indian Rupee only, i.e., no payment can be made in foreign currency to the foreign consortium member. The formation of Consortium or change in the Consortium character/ members after submission of the bid and any change in the bidding regarding Consortium will not be permitted.
4. Consortium members may be
 - DR Provider or
 - Control Electronics Provider or
 - QPU Provider or
 - Software Stack Provider OR
 - System Integrator with experience in Superconducting based Quantum Computer implementation.
5. The pre-qualification of a Consortium does not necessarily pre-qualify any of its member individually or as a member in any other Consortium. In case of dissolution of a Consortium, each one of the constituent firms may pre-qualify if they meet all the pre-qualification requirements, subject to written approval of the employer.
6. The bid submission must include documentary evidence to the relationship between Consortium members in the form of Consortium Agreement to legally bind all partners jointly and severally for the proposed agreement which should set out the principles for the constitution, operation, responsibilities regarding work and financial arrangements, participation (percentage share in the total) and liabilities (joint and several) in respect of each and all of the firms in the Consortium. Such Consortium Agreement must evidence the commitment of the parties to bid for the requirement (if pre-qualified) and to execute the contract if their bid is successful.
7. **All the partners of a Consortium may together authorize the Primary Bidder to submit the bid on behalf of the Consortium, along with an undertaking that in case of a successful bid, the work shall be executed by the Consortium as per contract terms of the bid document. Note: This authorization must be a part of the consortium agreement if the Bid is submitted by the Primary Bidder on behalf of the Consortium.**
8. The Consortium must provide that the Primary Bidder shall be authorized to incur liabilities and receive instructions for and on behalf of any and all members of the Consortium and the entire execution of the contract shall be done with active participation of the Primary Bidder.

9. An entity can be a member of only one Consortium. Bid submitted by Consortium /Primary Bidder, consisting of the common entities as member will be rejected.
10. The earnest money / bids security bank guarantee can be submitted by the Consortium or one or more partners of the Consortium.
11. If Consortium breaks up midway before award of work and during bid validity/after award of work/during pendency of contract, in addition to normal penalties as per provision of bid document, all the members of the Consortium shall be debarred from participating in future bids for a minimum period of 12 months.
12. **If a Bidder participates as Consortium, the benefits as per Public Procurement Policy for MSEs Order-2012 shall not be applicable for them.**
13. In case the work/service is awarded to a Consortium participating in the tender, they have to submit PAN, GST registration and Verifiable Tax Residency Certificate of respective country for each foreign partner or Consortium itself (as applicable in the tender and for the Bidder status) etc. in the name of the Consortium
14. The consortium agreement executed on a INR 100 non-judicial stamp paper should bind partners of the consortium to be liable jointly and severally for the execution of the contract in accordance with the contract terms. The consortium agreement should precisely indicate the role of each partner of the consortium in respect of the contract.
15. The consortium agreement shall authorize one of the partners of the consortium as Primary Bidder by submission of Power of Attorney signed by the legally authorized signatories of other partners. The other partner(s) should be explicitly designated as secondary partners.
16. Consortium agreement shall be enclosed with the proposal.
17. The Consortium agreement must specifically state that it is valid for the project for which bidding is done. If Consortium breaks up midway before award of work and during bid validity period bid will be rejected.
18. The contract agreement should be signed by each Consortium members. Subsequent declarations/letters/documents shall be signed by Primary Bidder authorized to sign on behalf of the Consortium or authorized signatory on behalf of Consortium.
19. The Consortium agreement may specify the share of each individual member for the purpose of execution of this contract. The Consortium Agreement should include a detailed Scope of Work (SOW) for each member, Specify timelines, deliverables, and quality standards aligned with the supply order., Include provisions for penalties and liabilities for non-performance or delays.
20. Consortium agreement shall be registered in accordance with Indian law so as to be legally valid and binding on the members before making any payment.
Note: If the work is awarded to a Consortium firm, they will register the Consortium agreement under Registration Act in accordance with law.
21. Consortium shall open a bank account in the name of Consortium and all payments due to the Consortium shall be credited by C-DAC to that account only. To facilitate statutory deductions all statutory documents like PAN, GST registration etc. shall be submitted by Consortium at the time of execution of Agreement.
22. No partner of the consortium should bid individually or as a partner of another consortium.
23. Monitoring & Reporting Mechanisms
 - Establish a Project Management Unit (PMU) to track progress and resolve issues.
 - Require regular progress reports, inspections, and quality checks at different project stages.

- The lead member should have the authority to **audit and review** the performance of all members.

24. Dispute Resolution Mechanism

- Clearly outline a dispute resolution process (e.g., mediation, arbitration) in case of conflicts.
- Specify an escalation matrix to address performance issues before they escalate into disputes.

25. Exit & Replacement Clauses

- Define exit criteria for a non-performing member and the process for replacing them.
- The lead member should have the right to engage alternative suppliers if a member fails to meet commitments.

26. Compliance with Government Regulations

- Ensure all consortium members comply with government procurement norms, quality standards, and contract conditions.
- Include a compliance clause for adhering to local laws, taxes, and labor regulations.

Additional MII clause Add under Section I, Instruction to Bidders

Clause 7 MII Content

Preference to Make In India products: (For bids < 200 Crore): Preference shall be given to Class 1 local supplier as defined in public procurement (Preference to Make in India), Order 2017 as amended from time to time and its subsequent Orders/Notifications issued by concerned Nodal Ministry for specific Goods/Products. The minimum local content to qualify as a **Class 1 local supplier is denoted in the bid document**. If the bidder wants to avail the Purchase preference, the bidder must upload a certificate from the OEM regarding the percentage of the local content and the details of locations at which the local value addition is made along with their bid, failing which no purchase preference shall be granted.

Only Class-I and Class-II Local suppliers as per MII order dated 4.6.2020 will be eligible to bid. Non - Local suppliers as per MII order dated 04.06.2020 are not eligible to participate.

However, eligible micro and small enterprises will be allowed to participate .The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023. [OM_No.1_4_2021_PPD_dated_18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

Verification of MII Content - the ‘Class-I local supplier’/ ‘Class-II local supplier’ shall be required to provide a certificate from the statutory auditor or cost auditor of the company (in the case of companies) or from a practising cost accountant or practising chartered accountant (in respect of suppliers other than companies) giving the percentage of local content. The bidder shall give self-certification for local content in the quoted item (goods/ works/ services) at the time of tendering. However, at the time of execution the contractor/ supplier shall be required to give local content certification duly certified by cost/ chartered accountant in practice. For cases where it is not possible to provide certification by Cost/ Chartered Accountant at the time of execution of project, the supplier shall be permitted to provide the certificate for local content from Cost/ Chartered Accountant after completion of the contract, within the limit acceptable to the procuring entity. In case the contractor/ supplier does not meet the stipulated local content requirement and the category of the supplier changes from Class-I to Class-II/ Non-local or from Class-II to Non-local, a penalty upto 10% of the

contract value may be imposed. However, contract once awarded shall not be terminated on this account.

Additional Clause of Submission of Bids by Foreign Bidders under Section I, Instruction to Bidders

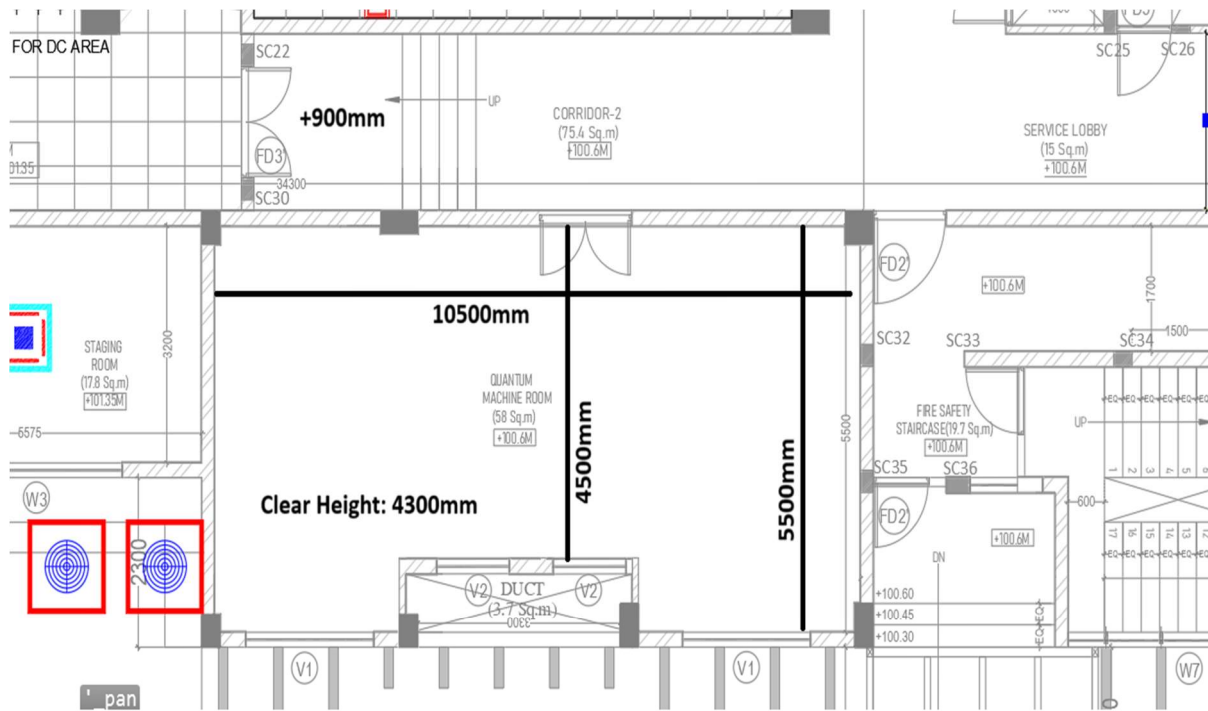
8. Submission of Bids by Foreign Bidders.

Bids should be submitted only in INR, and any bid in foreign currency shall be summarily rejected. Foreign bidders can also participate if they submit a bid in INR. However, purchase preference for local content as per the PPP-MII shall apply.

Clause 4, Section IV, Performance Bank Guarantee (PBG)

The % of PBG is revised from 10% to 5%

Drawing of the Site



Revised Annexure A

Form 1 : Bid Form (Covering Letter)

(To be submitted as part of Technical bid, along with supporting documents, if any)
(On Bidder's Letter-head)

(Strike out alternative phrases not relevant to you)

Bidder's Name_____

[Address and Contact Details]

Bidder's Reference No.....Date....

To
The Executive Director
Centre for Development of Advanced Computing,
No.1, Old Madras Road, Byappanahalli,
Bangalore – 560038

Ref: Your Tender Document No. CDACB/RD24/094 dated 01.01.2025 “Supply, Installation & Commissioning of Superconducting Qubits based Quantum Computing Facility (50 to 100 Qubits) at C-DAC, Bangalore, Electronic City”

Sir/ Madam

Having examined the above mentioned Tender Document, we, the undersigned, hereby submit/ upload our Technical and Financial bid (Price Schedule) for the supply of Goods and incidental Works/ Services in conformity with the said Tender Documents. (Please tick appropriate boxes or strike out sentences/ phrases not applicable to you)

1) Our Credentials:

(a) We are submitting this bid:

on our behalf, and there are no agents/ dealers involved in this tender, and hence no agency agreement or payments/ commissions/ gratuity is involved. Our company law and taxation regulatory requirements and authorization for signatories and related documents are submitted in Form 1 .1 (Bidder Information).

Or

as authorised dealer offering goods manufactured by our OEMs. Our OEM's law and taxation regulatory requirements and authorization for signatories and related documents are submitted in Form 1 .3 (OEM's Authorization).

Or

as agents/associates of our foreign principals. Our foreign principal's law and taxation regulatory requirements, as well as authorization for signatories and related documents, are submitted in Form 1 .4 (Declaration by Agents/ Associates of Foreign Principals/ OEMs).

(b) We.....hereby certify that We/ our Principals/ OEM M/sare proven, established, and reputed manufacturers with factories atwhich are fitted with modern equipment and where the production methods, quality control, and testing of all materials and parts manufactured or used by us shall be open to inspection by the representative of the Procuring Entity.

2) Our Eligibility and Qualifications to participate

We comply with all the eligibility criteria stipulated in this Tender Document, and the relevant declarations are made along with documents in Form 1 .2 of this bid-form. We fully meet the qualification criteria stipulated in this Tender Document, and the relevant details are submitted along with documents in Form 4: 'Qualification Criteria .Compliance.

3) Our Bid to supply Goods:

We offer to supply the subject Goods of requisite quality and within Delivery Schedules in conformity with the Tender Document. The relevant details are submitted in Form 2: 'Schedule of Requirements - Compliance and Form3: 'Technical Specifications and Quality Assurance - Compliance.'

4) Prices:

We hereby offer to perform the Services at our lowest prices and rates mentioned in the separately uploaded Price-Schedule. It is hereby confirmed that the prices quoted therein by us are:

- (a) based on terms of delivery and delivery schedule confirmed by us; and
- (b) Cost break-up of the quoted cost, showing inter-alia costs (including taxes and duties thereon) of all the included incidental Goods/ Works considered necessary to make the proposal self-contained and complete, has been indicated therein, and
- (c) based on the terms and mode of payment as stipulated in the Tender Document. We have understood that if we quote any deviation to terms and mode of payment, our bid is liable to be rejected as nonresponsive, and
- (d) have been arrived at independently, without restricting competition, any consultation, communication, or agreement with any other bidder or competitor relating to: i) those prices; or ii) the intention to submit an offer; or iii) the methods or factors used to calculate the prices offered.
- (e) have neither been nor shall be knowingly disclosed by us, directly or indirectly, to any other bidder or competitor before bid opening or contract award unless otherwise required by law.

5) Affirmation to terms and conditions of the Tender Document:

We have understood the complete terms and conditions of the Tender Document. We accept and comply with these terms and conditions without reservations, although we are not signing and submitting some of the sections of the Tender Document. Deviations, if any, are submitted by us in Form 5: 'Terms and Conditions - Compliance'. We also explicitly confirm acceptance of the Arbitration Agreement as given in the Tender Document.

6) Bid Securing Declaration

We have submitted the Bid Securing Declaration (BSD, in lieu of Bid Security) in stipulated format vide Form 7: 'Documents Relating to bid security.'

7) Abiding by the Bid Validity

We agree to keep our bid valid for acceptance for a period upto -----, as required in the Tender Document or for a subsequently extended period, if any, agreed to by us and are aware of penalties in this regard stipulated in the Tender Document in case we fail to do so.

8) Non-tempering of Downloaded Tender Document and Uploaded Scanned Copies

We confirm that we have not changed/ edited the contents of the downloaded Tender Document. We realise that any such change noticed at any stage, including after the contract award, shall be liable to punitive action in this regard stipulated in the Tender Document. We also confirm that scanned copies of documents/ affidavits/ undertakings uploaded along with our Technical bid are valid, true, and correct to the best of our knowledge and belief. If any dispute arises related to the validity and truthfulness of such documents/ affidavits/ undertakings, we shall be responsible for the same. Upon accepting our Financial bid, we undertake to submit for scrutiny, on-demand by the Procuring Entity, originals, and self-certified copies of all such certificates, documents, affidavits/ undertakings.

9) A Binding Contract:

We further confirm that, if our bid is accepted, all such terms and conditions shall continue to be acceptable and applicable to the resultant contract, even though some of these documents may not be included in the contract Documents submitted by us. We do hereby undertake that, until a formal contract is signed or issued, this bid, together with your written Letter of Award (LOA), shall constitute a binding contract between us.

10. Performance Guarantee and Signing the contract

We further confirm that, if our bid is accepted, we shall provide you with performance security of the required amount stipulated in the Tender Document for the due performance of the contract. We are fully aware that in the event of our failure to deposit the required security amount and/ or failure to execute the agreement, the Procuring Entity has the right to avail any or all punitive actions laid down in this regard, stipulated in the Tender Document.

10) Signatories:

We confirm that we are duly authorized to submit this bid and make commitments on behalf of the Bidder. Supporting documents are submitted in Form 1 .1 annexed herewith. We acknowledge that our digital/digitized signature is valid and legally binding.

12) Rights of the Procuring Entity to Reject bid(s):

We further understand that you are not bound to accept the lowest or any bid you may receive against your above-referred Tender Document.

(Signature with date)

(Name and designation)

Duly authorized to sign bid for and on behalf of
[name & address of Bidder and seal of company]

Form 1.1 : Bidder Information

(To be submitted as part of Technical bid)

(On Company Letter-head)

(Along with supporting documents, if any)

Bidder's Name _____

[Address and Contact Details]

Bidder's Reference No.....Date.....

Tender Document No. CDACB/RD24/094 dated 01.01.2025 for Supply, Installation & Commissioning of Superconducting Qubits based Quantum Computing Facility (50 to 100 Qubits) at C-DAC Bangalore, Electronic City

Note: Bidder shall fill in this Form following the instructions indicated below. No alterations to its format shall be permitted, and no substitutions shall be accepted. Bidder shall enclose certified copies of the documentary proof/ evidence to substantiate the corresponding statement wherever necessary and applicable. Bidder's wrong or misleading information shall be treated as a violation of the Code of Integrity. Such Bids shall be liable to be rejected as nonresponsive, in addition to other punitive actions provided for such misdemeanours in the Tender Document.

(Please tick appropriate boxes or strike out sentences/ phrases not applicable to you)

1) Bidder/ Contractor particulars:

- (a) Name of the Company:
- (b) Corporate Identity No. (CIN):
- (c) Registration, if any, with The Procuring Entity:.....
- (d) Place of Registration/ Principal place of business/ manufacture
.....
- (e) Complete Postal Address:
- (f) Pin code/ ZIP code:
- (g) Telephone nos. (with country/ area codes):.....
- (h) Mobile Nos.: (with country/ area codes):
- (i) Contact persons/ Designation:
- (j) (k) Email IDs:

Submit documents to demonstrate eligibility as per NIT-Clause 3 and ITB-clause 3.2 - A self-certified copy of registration certificate — in case of a partnership firm — Deed of Partnership; in case of Company — Notarized and certified copy of its Registration; and in case of Society — its Byelaws and registration certificate of the firm.

2) Taxation Registrations:

- (a) PAN number:.....
- (b) Type of GST Registration as per the Act (Normal Taxpayer, Composition, Casual Taxable Person, SEZ, etc.):
- (c) GSTIN number:.....in Consignor and Consignee States

- (d) Registered/ Certified Works/ Factory where the Goods would be mainly manufactured and Place of Consignor for CST Purpose:
- (e) Contact Names, Nos. & email IDs for CST matters (Please mention primary and secondary contacts):
- We solemnly declare that our GST rating on the GST portal/ Govt. official website is not negative/ blacklisted.

Documents to be submitted: Self-attested Copies of PAN card and GSTIN Registration. 3)
 Authorization of Person(s) signing the bid on behalf of the Bidder

- (a) Full Name:
- (b) Designation:
- (c) Signing as:
 - A sole proprietorship firm. The person signing the bid is the sole proprietor/ constituted attorney of the sole proprietor,
 - A partnership firm. The person signing the bid is duly authorised being a partner to do so, under the partnership agreement or the general power of attorney,
 - A company. The person signing the bid is the constituted attorney by a resolution passed by the Board of Directors or in pursuance of the Authority conferred by Memorandum of Association.

Documents to be submitted: Registration Certificate/ Memorandum of Association/
 Partnership Agreement/ Power of Attorney/ Board Resolution

4) Bidder's Authorized Representative Information

- (a) Name:
- (b) Address:
- (c) Telephone/ Mobile numbers: (d) Email Address:

(Signature with date)

(Name and designation)

Duly authorized to sign bid for and on behalf of [name & address of Bidder and seal of company]

DA: As above

Form 1.2: Eligibility Declarations

(To be submitted as part of Technical bid)

(On Company Letter-head)

(Along with supporting documents, if any)

Tender Document No. CDACB/RD24/094 dated 01.01.2025 for Supply, Installation & Commissioning of Superconducting Qubits based Quantum Computing Facility (50 to 100 Qubits) at C-DAC Bangalore, Electronic City

Bidder's Name_____

[Address and Contact Details]

Bidder's Reference No._____ Date.....

Note: The list below is indicative only. You may attach more documents as required to confirm your eligibility criteria.

Eligibility Declarations

(Please tick appropriate boxes or cross out any declaration not applicable to the Bidder)

We hereby confirm that we are comply with all the stipulated in tender and declare as under and shall provide evidence of our continued eligibility to the Procuring Entity as may be requested:

- 1) Legal Entity of Bidder:
- 2) OEM/ Manufacturer/ Agent/ Dealership Status:
- 3) We are are not a consortium
- 4) We solemnly declare that we (including our affiliates or subsidiaries or constituents):
 - a) are not insolvent, in receivership, bankrupt or being wound up, not have our affairs administered by a court or a judicial officer, not have our business activities suspended and are not the subject of legal proceedings for any of these reasons;
 - b) (including our Contractors/ subcontractors for any part of the contract):
 - (i) Do not stand declared ineligible/ blacklisted/ banned/ debarred by the Procuring Organisation or its Ministry/ Department from participation in its Tender Processes; and/ or
 - (ii) Are not convicted (within three years preceding the last date of bid submission) or stand declared ineligible/ suspended/ blacklisted/ banned/ debarred by appropriate agencies of Government of India from participation in Tender Processes of all of its entities, for offences mentioned in Tender Document in this regard. We have neither changed our name nor created a new "Allied Firm", consequent to the above disqualifications.
 - c) Do not have any association (as bidder/ partner/ Director/ employee in any capacity) with such retired public official or near relations of such officials of Procuring Entity, as counter-indicated, in the Tender Document.

- d) We certify that we fulfil any other additional eligibility condition if prescribed in Tender Document.
- e) We have no conflict of interest, which substantially affects fair competition. The prices quoted are competitive and without adopting any unfair/ unethical/ anti-competitive means. No attempt has been made or shall be made by us to induce any other bidder to submit or not to submit an offer to restrict competition.
- 5) Restrictions on procurement from bidders from a country or countries, or a class of countries under Rule 144 (xi) of the General Financial Rules 2017: We certify as under:

"We have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India and on sub-contracting to contractors from such countries, and solemnly certify that we fulfil all requirements in this regard and are eligible to be considered. We certify that:

- (a) we are not from such a country or, if from such a country, we are registered with the Competent Authority (copy enclosed). and;
- (b) we shall not subcontract any work to a contractor from such countries unless such contractor is registered with the Competent Authority.

6) MSME Status:

Having read and understood the Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 (as amended and revised till date), and solemnly declare the following:

- (a) We are - Micro/ Small/ Medium Enterprise/ SSI/ Govt. Deptt. / PSU/
Others:
- (b) We attach herewith, Udyam Registration Certificate with the Udyam Registration Number as proof of our being MSE registered on the Udyam Registration Portal. The certificate is the latest up to the deadline for submission of the bid.
- (c) Whether Proprietor/ Partner belongs to SC/ ST or Women category. (Please specify names and percentage of shares held by SC/ ST Partners):
- 7) Start-up Status we confirm that we are/ are not a Start-up entity as per the definition of the Department of Promotion of Industrial and Internal Trade – DPIIT.

8) Make in India Status:

Having read and understood the Public Procurement (Preference to Make in India PPP - MII) Order, 2017 (as amended and revised till date) and related notifications from the relevant Nodal Ministry/ Department, and solemnly declare the following:

- (a) Self-Certification for the category of suppliers:
(Provide a certificate from statutory auditors/ cost accountant in case of Tenders above Rs 10 Crore for Class-I or Class-II Local Suppliers). Details of local content and location(s) at which value addition is made are as follows:

Local Content and % age	
Location(s) of value addition	

Therefore, we certify that we qualify for the following category of the supplier (tick the appropriate category):

- Class-I Local Supplier/

Class-II Local Supplier/ CI Non-Local Supplier.

(b) We also declare that

There is no country whose bidders have been notified as ineligible on a reciprocal basis under this order for an offered Goods, or

We do not belong to any Country whose bidders are notified as ineligible on a reciprocal basis under this order for the offered Goods.

9) Self-Declaration by Indian Agents/ Associates of Foreign Principals

(a) Self-attested documentary evidence about their identity (PAN, Aadhar Card, GSTIN registration, proof of address, etc.), business details (ownership pattern and documents, type of firm, year of establishment, sister concerns etc.) to establish that they are a bonafide business as per Indian Laws – are submitted as part of Form 1 .1 annexed herewith.

(b) Agency Agreement shall be submitted with Form 1 .4. It shall cover

(i) the precise relationship, services to be rendered, mutual interests in business - generally and/ or specifically for the tender and

(ii) any payment the agent or associate receives in India or abroad from the foreign OEM/ principal, whether a commission or a general retainer fee.

(c) Our Foreign principals, explicitly authorizing us to make an offer in response to the tender, either directly or in association with them, are listed in Form 1 .3 and 1 .4 annexed herewith. That also indicates their name, address, nationality, status (i.e., whether manufacturer or agents of manufacturer holding the Letter of Authority of the Principal).

(d) The amount of commission/ remuneration included in the price (s) quoted by Bidder for agents or associated bidder is detailed in Form 1 .4.

(e) Confirmation is given in Form 1 .4 annexed herewith from the foreign principals that the commission/ remuneration, reserved for Bidder in the quoted price(s), if any, shall be paid by the Procuring Entity in India, in equivalent Indian Rupees on satisfactory completion of the Project or supplies of Goods and Spares.

10) Penalties for false or misleading declarations:

We hereby confirm that the particulars given above are factually correct and nothing is concealed and undertake to advise any future changes to the above details. We understand that any wrong or misleading self-declaration would violate the Code of Integrity and attract penalties as mentioned in this Tender Document.

(Signature with date)

(Name and designation)

Duly authorized to sign bid for and on behalf of

[name & address of Bidder and seal of company]

DA: As in Sr 9 to 14 above, as applicable

**REVISED ANNEXURE J –
DOCUMENTS CHECK-LIST**

Sl. No	Document	Page Numbers	Yes/No
	e-Packet – A		
1	Covering Letter(Annexure-A containing Forms 1.1 and 1.2)		
2	Authority Letter (Annexure-B)		
3	Transaction details towards online payment of EMD		
4	Documents check list (Annexure J)		
5	A self-attested copy of Partnership deed / Memorandum and Articles of Association as applicable.		
6	Self-attested copies of GST registration certificate, as applicable.		
7	A self-attested copy of PAN card, if applicable		
8	Self-certified copy of Balance Sheets/ Certificate from CA towards certification of turnover for last three years.		
9	Undertaking(s) from OEMs/Principal Manufacturers of the various components (Annexure- C)		
10	Bid Acceptance Letter (Annexure – E)		
11	Integrity Pact (Annexure – F)		
12	Copies of purchase orders and installation reports, as per eligibility criteria and any other documents in support of eligibility criteria		
14	Technical Bid, Documents Brochures, Catalogs, data sheets, tables etc. on the solution offered.		
16	Duly filled compliance statements and BoM Tables		
17	Benchmark Results and Tables		
18	Copy of Un-priced commercial bid along with commercial terms and conditions		
19	Conformity to Schedule of Requirements (Annexure – G)		
20	Consortium Agreement As per Annexure K		
21	Letter of Intent to execute a consortium agreement and register same		
22	Declaration by consortium partner as per Annexure L		
	e-Packet – B		
1	Commercial bid along with commercial terms and conditions		

Annexure K

CONSORTIUM AGREEMENT

CONSORTIUM AGREEMENT FORMAT

CONSORTIUM AGREEMENT to be changed and signed as per consortium members.

(To be executed on stamp paper of appropriate value)

THIS CONSORTIUM AGREEMENT is entered into on this the.....day of
..... 2025

AMONGST

1. {, a company incorporated under the provisions of Companies Act,1956/
a partnership firm registered under the Indian Partnership Act, 1932/ Limited
Liability Partnership Act,2008}and having its {registered office/office}at.....
(hereinafter referred to as the “**First Part**” or the “**Primary Bidder**” which expression shall,
unless repugnant to the context include its successors and permitted assigns)

AND

2. {, a company incorporated under the provisions of Companies Act,1956/
a partnership firm registered under the Indian Partnership Act, 1932/ Limited
Liability Partnership Act,2008}and having its {registered office/office}at.....
(hereinafter referred to as the “**Second Part**” or the “**1st Consortium Member**” which
expression shall, unless repugnant to the context include its successors and permitted assigns)

AND

3. {, a company incorporated under the provisions of Companies Act,1956/
a partnership firm registered under the Indian Partnership Act, 1932/ Limited
Liability Partnership Act,2008}and having its {registered office/office}at.....
(hereinafter referred to as the “**Third Part**” or the “**2nd Consortium Member**” which
expression shall, unless repugnant to the context include its successors and permitted assigns)

The above mentioned parties of the FIRST, SECOND and THIRD PART are collectively
referred to as the “**Parties**” and each is individually referred to as a “**Party**”

WHEREAS:

- (A) Centre For Development of Advanced Computing, Bangalore (hereinafter referred to as the “C-DAC” which expression shall, unless repugnant to the context or meaning thereof, include its administrators, successors and assigns) has invited bids (“bids”) by its tender vide reference No CDACB/RD24/094 dated 01.01.2025 (hereinafter referred as “TENDER”) for **Supply, Installation & Commissioning of Superconducting Qubits based Quantum Computing Facility (50 to 100 Qubits) at C-DAC, Bangalore** (the “Project/Contract”).
- (B) The Parties are interested in jointly bidding for the Contract as members of a Consortium and in accordance with the terms and conditions of the Tender Bidding Documents in respect of the Contract, and
- (C) It is a necessary condition under the Bidding Documents that the members of the Consortium shall enter into a Consortium Agreement (the “**Agreement**”) and furnish a copy thereof with the bid.

NOW IT IS HEREBY AGREED as follows:

1. Definitions and Interpretations

In this Agreement, the capitalized terms shall, unless the context otherwise requires, have the meaning ascribed thereto under the Bidding Documents.

2. Consortium

The Parties do hereby irrevocably constitute a consortium (the “**Consortium**”) for the purposes of jointly participating in the bidding process for the Project.

The Parties hereby undertake to participate in the bidding process only through this Consortium and not individually and/ or through any other Consortium constituted for this Contract, either directly or indirectly or through any of their associates.

3. Role of the Parties

The Parties hereby undertake that Party of the First Part is fulfilling the prequalification criteria as per the requirement of “**Tender**” in all respects and shall be the “**Primary Bidder**” of the Consortium and shall have the Power of Attorney from all Parties for conducting all business for and on behalf of the Consortium during the Bidding Process and until the signing of the Contract when all the obligations of the Consortium shall become effective.

The project shall be executed by the 'Primary Bidder' along with the other members of this Consortium and Primary Bidder shall solely be responsible to C-DAC for all the communication, correspondence etc. on behalf of other consortium members.

4. Joint and Several Liability

All the members of this Consortium do hereby undertake to be jointly and severally responsible to C-DAC for all the activities mentioned in the Tender Document including financial liabilities and all the obligations and liabilities relating to the Project and in accordance with the terms of the Tender Bidding Documents and the Contract/Agreement, during its subsistence.

5. Representation of the Parties

Each Party represents to the other Parties and C-DAC as of the date of this Agreement that:

- a. Such Party is duly organised, validly existing and in good standing under the laws of India and has all requisite power and authority to enter into this Agreement;
- b. The execution, delivery and performance by such Party of this Agreement has been authorised by all necessary and appropriate corporate or governmental action and a copy of the extract of the charter documents and board resolution or any other resolution/ Power of Attorney in favour of the person executing this Agreement for the delegation of power and authority to execute this Agreement on behalf of the Consortium Member is annexed to this Agreement, and will not,:
 - (i) require any consent or approval not already obtained;
 - (ii) violate any Applicable Law presently in effect and having applicability to it;
 - (iii) violate the memorandum and articles of association, bye-laws or other applicable organisational documents thereof;

- (iv) violate any clearance, permit, concession, grant, license or other Governmental authorisation, approval, judgment, order or decree or any mortgage agreement, indenture or any other instrument to which such Party is a party or by which such Party or any of its properties or assets are bound or that is otherwise applicable to such Party; or
 - (v) create or impose any liens, mortgages, pledges, claims, security interests, charges or encumbrances or obligations to create a lien, charge, pledge, security interest, encumbrances or mortgage in or on the property of such Party, except for encumbrances that would not, individually or in the aggregate, have a material adverse effect on the financial condition or prospects or business of such Party so as to prevent such Party from fulfilling its obligations under this Agreement;
- c. this Agreement is the legal and binding obligation of such Party, enforceable in accordance with its terms against it; and
 - d. there is no litigation pending or, to the best of such Party's knowledge, threatened to which it or any of its Affiliates is a party that presently affects or which would have a material adverse effect on the financial condition or prospects or business of such Party in the fulfillment of its obligations under this Agreement.

6. **Conflict of Interest:**

The Parties herein undertake to take all necessary measures in order to avoid any conflict of interest during the performance of the project or the contract for **“Supply, Installation & Commissioning of Superconducting Qubits based Quantum Computing Facility (50 to 100 Qubits) at C-DAC, Bangalore, Electronic City”** and also to identify any conflict of interest and convey the same as early as possible to C-DAC so that C-DAC can consult with the Primary Member and other Parties to sort out such conflicts and take necessary action.

7. **Post Contract Liabilities:**

For any loss or damage on account of any breach of this Agreement or the contract for **“Supply, Installation & Commissioning of Superconducting Qubits based Quantum Computing Facility (50 to 100 Qubits) at C-DAC, Bangalore, Electronic City”** or any shortfall in the execution of the Project, meeting the guaranteed performance / parameters as per technical specifications / documents relating to the Tender, **“Primary Bidder”** undertake to promptly make good such loss or damage on C-DAC’s demand without any demur. C-DAC shall have the right to proceed against any one of the Consortium members herein in this regard without establishing the individual liability of such party and it shall neither be necessary nor obligatory on the part of C-DAC to proceed against the **“Primary Bidder”** before proceeding against the other Parties herein.

8. **Assignment:**

The rights and obligations of all the Consortium Members under this Agreement shall not be assigned to any third party without the prior written consent of C-DAC.

9. **Employers’ responsibility:**

Each Party will be responsible according to the applicable laws and rules for their own personnel and property.

10. Insurance:

The Parties herein shall at their own expense take out and maintain insurance cover as may be necessary to cover their liabilities.

11. Applicable Law:

This Consortium Agreement shall be governed, construed and interpreted in accordance with the laws of India and the Courts in Bangalore (Name of the place) shall have the exclusive jurisdiction in all matters arising hereunder.

12. Termination

This Agreement shall be effective from the date hereof and shall continue till the expiry of the Defect Liability period under the Agreement executed with C-DAC. However, in case the Consortium is either not pre-qualified or does not get selected for award of the Contract, the Agreement will stand terminated in case the Consortium is not pre-qualified or upon return of the tender EMD by C-DAC to the Consortium, as the case may be. None of the parties will be entitled to terminate their association with the Consortium, till return of the tender EMD by the Consortium or payment of the amount specified in the Financial Bid by the Consortium, whichever is later.

13. Indemnification:

All consortium members of this agreement shall fully indemnify, hold harmless and defend C-DAC and its officers etc., from and against all claims, liabilities, suits, damages including any criminal liability due to false declaration by the consortium members with regard to this Agreement (or) Tender transaction (or) Project (or) contract etc., caused due to negligence/commission/omission of the any of the consortium members (or) its employees and agents including representatives (or) sub-contractors (or) any other person claiming (or) any other person claiming under this tender (or) under the applicable laws of India.

14. Parties acknowledge that C-DAC shall not be liable to any of the Consortium members for whatsoever loss, damage etc. occurred during the bid process/subsistence of the project/Contract/tenure of the Agreement executed with C-DAC.

The Parties acknowledge and accept that this Agreement shall not be amended by the Parties without the prior approval of C-DAC.

IN WITNESS WHEREOF THE PARTIES ABOVE NAMED HAVE EXECUTED AND DELIVERED THIS AGREEMENT AS OF THE DATE FIRST ABOVE WRITTEN.

SIGNED, SEALED AND DELIVERED
DELIVERED

For and on behalf of

LEADMEMBER by:

(Signature)

(Name)

(Designation)

(Address)

SIGNED, SEALED AND DELIVERED

SIGNED, SEALED AND
DELIVERED

For and on behalf of

SECONDPART

(Signature)

(Name)

(Designation)

(Address)

For and on behalf of
THIRD PART by:

(Signature)

(Name)

(Designation)

(Address)

In the presence of:

1.

2.

Notes:

- 1. The mode of the execution of the Consortium Agreement should be in accordance with the applicable laws.*
- 2. Each Consortium Agreement should attach a copy of the extract of the charter documents and documents such as resolution / Power of Attorney in favour of the person executing this Agreement for the delegation of power and authority to execute this Agreement on behalf of the Consortium Member.*

Annexure – L – Declaration by Consortium Partners
(Original signed copy on company letterhead of Primary Bidder)

[Date]

To,

The Executive Director
Centre for Development of Advanced Computing,
No.1, Old Madras Road, Byappanahalli,
Bangalore – 560038

Dear Sir,

Ref: Tender Ref.....

- I/We agree to adhere with the schedule of implementation and deliver the services as specified in this invitation for application document.
- I/We agree to submit the Consortium Agreement duly stating the Primary Bidder and the Secondary partner(s).
- I/We agree to that the Primary Bidder will be held accountable by C-DAC for all the delivery and tender conditions and will be held responsible for breach of conditions, agreements, SLAs as stated in this document.
- I/We agree that C-DAC would release payment only to the Primary Bidder.
- I/We agree to submit any other agreements with the bidding consortium partner that conflict with the terms and conditions of this document.
- I/We agree that our bid might be summarily rejected in case the Proposal Evaluation committee finds any such agreement that effect the execution of the terms of this document.
- If there is any prior agreement between Primary and the Secondary partner which conflicts with any of the clauses of this tender document, I/We agree that it is the responsibility of the Primary Bidder to ensure that the prior agreement is modified so that it is compliant with the conditions of this document .

Primary Bidder Name:

Signature:

Signing Authority Name:

Designation:

Seal of the Primary Bidder:

(Non-Primary Bidders)

Secondary Partner Name: Seal of the Secondary Partner Signature:

Signing Authority Name:

Designation:

[Please add the above for all the secondary partners]

Annexure 1

SECTION III (A): 1.3 Technical Evaluation Criteria, 1, 1.1 & 1.2 amended as below:

Sl. No.	Evaluation Criteria	Details of Criteria: Allocation of Marks		Proof / Document to be attached
1	Bidder/Consortium Profile	Max Marks: 12	Min. marks: 4	
1.1	Annual Turnover and Net worth In case of consortium, the total cumulative turnover of all the members will be considered with atleast 30% of contribution from the Primary Bidder.	Turnover in INR	Marks	Audited Financial statement
		More than [500] Crore	6	
		> INR [400] Crore and <= INR [500] Crore	4	
		> INR [300] Crore and <= INR [400] Crore	3	
		>= INR [150] Crore and <= INR [300] Crore	2	
		Else	0	
1.2	Project Experience In case of consortium, the number of installations by any consortium member may be submitted for evaluation of this criteria	The Bidder shall have successfully executed at least two (2) installation and commissioning of superconducting qubits-based quantum computing facilities having the usable capacity of min. 50 qubits, in last 3 years, as on Bid Submission Date. (Also please refer Section II – Criteria 4.9)		Installation Certificate endorsed by the client
		No. of installations	Marks	
		> 3 installations	6	
		3 installations	4	
		2 installations	2	
		Else	0	

SECTION III (A): (2 Manpower deployment, Sl. No. 1(Project Manager), 2(Technical Engineers), & 1(Support Engineer) amended as below:

Sl. No	Criteria	Man-months required	On-site deployment	Minimum Qualification & Experience
1	Project Manager	6	75%	MBA (IT)/M. Tech with 2 years experience in Project management

2	<p>Technical Engineers of the team (comprising of atleast 4 members) with experience in handling the following subsystems:</p> <ul style="list-style-type: none"> - DR and associated services - Control Electronics & Cabling - QPU characterization, demonstration - Quantum System and Application Engineering 	15	75%	B. Tech / M.Tech (Full Time) with 2 years experience in relevant areas
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Following are the minimum resources required to be deployed in the Project support (post acceptance from CDAC)

Sl. No	Criteria	Man-months required	On-site deployment	remote deployment	Minimum Qualification & Experience
1	Support Engineer(s)	36	95% of 18 man-months	95% of 18 man-months	B. Tech / M.Sc. (Full time) with 1 year minimum experience