



**ODISHA COMPUTER APPLICATION CENTRE
REQUEST FOR PROPOSAL
Enq.No.- OCAC-SEGP-INFRA-0019-2022-22075**

OCAC invites Request for Proposal (RFP) for Selection of Agency for Procurement, Supply, Installation & Commissioning of Atal Tinkering Lab (ATL) at 363 nos. For details please visit websites www.ocac.in & www.odisha.gov.in. **The bid shall be submitted in electronic mode only in the portal <https://enivida.odisha.gov.in> latest by 20.12.2022, 03:00 PM.** OCAC reserves the right to accept/ reject any/ all bids without assigning any reason thereof.

General Manager(Admin), OCAC, Plot No.-N-1/7-D, Acharya Vihar, P.O.-RRL, Bhubaneswar-751013, Ph.-2567280/ 2567064/ 2567295

Request for Proposal (RFP) for Selection of Agency for Supply, Installation & Commissioning of Atal Tinkering Lab (ATL)

RFP No. - OCAC-SEGP-INFRA-0019-2022-22075, Dated 22-11-2022



**Odisha Computer Application Centre (Technical Directorate of E&IT Department, Government of Odisha), N-1/7-D, Acharya Vihar, PO- RRL, Bhubaneswar – 751013, EPBX:
0674-2567280 / 2567064 / 2567295 / 2567283**

Disclaimer

The information contained in this Request for Proposal (hereinafter referred to as "RFP") document provided to the Bidders, by the Odisha Computer Application Centre (OCAC) Odisha, or any of its employees, is provided to the Bidder(s) on the terms and conditions set out in this RFP document and all other terms and conditions subject to which such information is provided.

The purpose of this RFP document is to provide the Bidder(s) with information to assist in the formulation of Proposals. This RFP document does not aim to hold all the information each Bidder may require. This RFP document may not be appropriate for all persons, and it is not possible for the Odisha Computer Application Centre (OCAC) Odisha and its employees to consider the business/investment objectives, financial situation and particular needs of each Bidder who reads or uses this RFP document. Each Bidder should conduct its own investigations and analysis and should check the accuracy, reliability and completeness of the information in this RFP document and where necessary obtain independent advice from appropriate sources. Odisha Computer Application Centre (OCAC) Odisha and its employees make no representation or warranty and shall incur no liability under any law, statute, rules or regulations as to the accuracy, reliability or completeness of the RFP document. Client Department also accepts no liability of any nature whether resulting from negligence or otherwise howsoever caused arising from reliance of any Bidder upon the statements contained in the Bidding Documents.

Information provided in the RFP Document to the Bidder(s) is on a wide range of matters, some of which may depend upon interpretation of law. The information given is not intended to be an exhaustive account of statutory requirements and should not be regarded as a complete or authoritative statement of law. OCAC/Client Department accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

The issue of this RFP Documents does not imply that the OCAC/Client Department is bound to select a Bidder or to appoint the Selected Bidder or Service Provider for the Project and the OCAC/Client Department reserves the right to reject all or any of the Bidders or Bids without assigning any reason whatsoever.

The Bidder shall bear all its costs associated with or relating to the preparation and submission of its Bid including but not limited to preparation, copying, postage, delivery fees, uploading, expenses associated with any demonstrations or presentations which may be required by OCAC/Client Department or any other costs incurred in connection with or relating to its Bid. All such costs and expenses will remain with the Bidder and the OCAC/Client Department shall not be liable in any manner whatsoever for the same or for any other costs or other expenses incurred by a Bidder in preparation or submission of the Bid, regardless of the conduct or outcome of the Selection process. OCAC may, in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information in this RFP document.

Odisha Computer Application Centre (OCAC)

Instruction to Bidders for Online Bid Submission

e-Nivida is the complete process of eTendering, from publishing of tenders online, inviting online bids, evaluation and award of contract using the system. You may keep a watch of the tenders floated under <https://enivida.odisha.gov.in>

Bidder Enrolment can be done using “**Bidder Enrolment**”.

The instructions given below are meant to assist the bidders in registering on the e- Nivida Portal, and submitting their bid online on the portal as per uploaded bid.

More information useful for submitting online bids on the eNivida Portal may be obtained at: <https://enivida.odisha.gov.in>

GUIDELINES FOR REGISTRATION:

1. Bidders are required to enrol themselves on the eNivida Portal <https://enivida.odisha.gov.in> or click on the link “Bidder Enrollment” available on the home page of e-tender Portal by paying the Registration fee of Rs.2,500/- + Applicable GST.
2. As part of the enrolment process, the bidders will be required to choose a unique username and assign a password for their accounts.
3. Bidders are advised to register their valid email address and mobile numbers as part of the registration process. These would be used for any communication with the bidders.
4. Upon enrolment, the bidders will be required to register their valid Digital Signature Certificate (Only Class III Certificates with signing + encryption key usage) issued by any Certifying Authority recognized by CCA India (e.g. Sify / TCS / nCode / eMudhra etc.), with their profile.
5. Only valid DSC should be registered by a bidder. Please note that the bidders are responsible to ensure that they do not lend their DSC’s to others which may lead to misuse.
6. Bidder then logs in to the site through the secured log-in by entering their user ID /password and the password of the DSC / e-Token.
7. The scanned copies of all original documents should be uploaded in pdf format on e-tender portal.
8. After completion of registration payment, bidders need to send their acknowledgement copy on our help desk mail id odishaenivida@gmail.com, for activation of the account.

SEARCHING FOR TENDER DOCUMENTS

1. There are various search options built in the e-tender Portal, to facilitate bidders to search active tenders by several parameters.
2. Once the bidders have selected the tenders they are interested in, then they can pay the Tender fee and processing fee (NOT REFUNDABLE) by net-banking / Debit / Credit card

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then you may download the required documents / tender schedules, Bid documents etc. Once you pay both fee tenders will be moved to the respective 'requested' Tab. This would enable the e- tender Portal to intimate the bidders through SMS / e-mail in case there is any corrigendum issued to the tender document.

PREPARATION OF BIDS

1. Bidder should take into account any corrigendum published on the tender document before submitting their bids.
2. Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid.
3. Bidder, in advance, should get ready the bid documents to be submitted as indicated in the tender document / schedule and generally, they can be in PDF formats. Bid Original documents may be scanned with 100 dpi with Colour option which helps in reducing size of the scanned document.
4. To avoid the time and effort required in uploading the same set of standard documents which are required to be submitted as a part of every bid, a provision of uploading such standard documents (e.g., PAN card copy, GST, Annual reports, auditor certificates etc.) has been provided to the bidders. Bidders can use "My Documents" available to them to upload such documents.
5. These documents may be directly submitted from the "My Documents" area while submitting a bid, and need not be uploaded again and again. This will lead to a reduction in the time required for bid submission process. Already uploaded documents in this section will be displayed. Click "New" to upload new documents.

SUBMISSION OF BIDS

1. Bidder should log into the website well in advance for the submission of the bid so that it gets uploaded well in time i.e., on or before the bid submission time. Bidder will be responsible for any delay due to other issues.
2. The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document as a token of acceptance of the terms and conditions laid down by Department.
3. Bidder has to select the payment option as per the tender document to pay the tender fee / Tender Processing fee & EMD declaration as applicable and enter details of the instrument.
4. In case of BG bidder should prepare the BG as per the instructions specified in the tender document. The BG in original should be posted/couriered/given in person to the concerned official before the Online Opening of Financial Bid. In case of non-receipt of BG amount in original by the said time, the uploaded bid will be summarily rejected.
5. Bidders are requested to note that they should necessarily submit their financial bids in the format provided and no other format is acceptable. If the price bid has been given as a standard BOQ format with the tender document, then the same is to be downloaded and to be filled by all the bidders. Bidders are required to download the BOQ file, open it and complete the yellow Coloured (unprotected) cells with their respective financial quotes and

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other details (such as name of the bidder). No other cells should be changed. Once the details have been completed, the bidder should save it and submit it online, without changing the filename. If the BOQ file is found to be modified by the bidder, the bid will be rejected.

6. The server time (which is displayed on the bidders' dashboard) will be considered as the standard time for referencing the deadlines for submission of the bids by the bidders, opening of bids etc. The bidders should follow this time during bid submission.
7. The uploaded bid documents become readable only after the tender opening by the authorized bid openers.
8. Upon the successful and timely submission of bid click "Complete" (i.e. after Clicking "Submit" in the portal), the portal will give a successful Tender submission acknowledgement & a bid summary will be displayed with the unique id and date & time of submission of the bid with all other relevant details.
9. The tender summary has to be printed and kept as an acknowledgement of the submission of the tender. This acknowledgement may be used as an entry pass for any bid opening meetings.

For any clarification in using eNivida Portal:

1. Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority for a tender or the relevant contact person indicated in the tender.
2. Any queries relating to the process of online bid submission or queries relating to e-tender Portal in general may be directed to the Helpdesk Support.

Please feel free to contact eNivida Helpdesk (as given below) for any query related to e-tendering.

Phone No. 011-49606060

Mail id: - odishaenivida@gmail.com

Acronyms and Glossary of Terms

Acronyms / Abbreviations	Description
OCAC	Odisha Computer Application Centre
EMD	Earnest Money Deposit
IT	Information Technology
LD	Liquidated Damages
LOI	Letter of Intent
OEM	Original Equipment Manufacturer
OS	Operating System
SLA	Service Level Agreement
UAT	User Acceptance Test

Important Dates & Information

Information	Details
Bid Inviting Authority	Odisha Computer Application Center (OCAC) (Technical Directorate of I.T. Dept, Govt. of Odisha)
Correspondence Address	The General Manager (Admin) Odisha Computer Application Centre (OCAC) (Technical Directorate of I.T. Dept, Govt. of Odisha) N-1/7-D, Acharya Vihar,P.O.- RRL, Bhubaneswar -751013
RFP Name	RFP for Selection of Agency for Procurement, Supply, Installation & Commissioning of Atal Tinkering Lab (ATL) at 363 nos. of Secondary School on TURNKEY Basis for School & Mass Education Department (S & ME), Government of Odisha.
Bid Reference No. and Date	OCAC-SEGP-INFRA-0019-2022-22075, Dated 22-11-2022
Non-Refundable RFP Document Fee	₹11,200/-(inclusive of 12% GST) Eleven Thousand Two Hundred Only in the form of Demand Draft drawn on any Nationalized Bank or Scheduled Commercial Bank in favor of "Odisha Computer Application Centre " , payable at Bhubaneswar.
EMD	The bidder must have submitted the EMD of ₹ 36,00,000/- (Rupees Thirty-Six Lakhs only) in the shape of Bank Guarantee/Account Payee Demand Draft from any Nationalized / Scheduled Commercial Bank in favor of Odisha Computer Application Centre (OCAC) payable at Bhubaneswar. The EMD should be valid for a minimum period of 90 days from the last date of submission of the Bid. Bidders which are registered under Micro, Small & Medium Enterprises ministry of India or any State Govt. may be considered for exemption from EMD.
Availability of Bid Document in the website (www.ocac.in www.odisha.gov.in)	22-11-2022 To 08-12-2022 at 03:00 PM
Last date for receiving queries	03-12-2022 by 04:00 PM
Date and Time of Pre-bid Conference	05-12-2022 at 12:30 PM
Issue of Corrigendum (if Required)	09-12-2022
Last Date and Time for Submission of Bid document	20-12-2022 by 03:00 PM

**RFP for Selection of Agency for Supply, Installation & Commissioning of 363 numbers of
Atal Tinkering LABs for School & Mass Education Department (S&ME)**

Date and Time of opening of Pre-Qualification Bids (PQ)	20-12-2022 at 04: 30 PM
Date and Time of opening of Technical Bids (TB)	To be informed
Opening of Commercial Bid(CB)	To be informed

1. Notice Inviting RFP

OCAC invites proposals from reputed agencies of National and International repute, for "Atal Tinkering LAB" for School & Mass Education Department (S & ME), Government of Odisha, as detailed in the Scope of Work in this RFP.

The RFP document can be downloaded from the OCAC websites <https://ocac.in>, <https://enivida.odisha.gov.in> and <https://www.odisha.gov.in>. Response to this Request for Proposal (RFP) shall be deemed to have been done after careful study and examination of this document with full understanding of its implications. This and subsequent sections provide general information about the Issuer, important dates for RFP processing, addresses for communication and correspondence, and the overall eligibility, Technical evaluation criteria and related terms for the interested bidders.

OCAC reserve the right to cancel any or all the bids without assigning any reason thereof.

Issuer

The General Manager (Admn.)
Odisha Computer Application Centre
(OCAC) OCAC Building, Plot No.-N-1/7-D,
Acharya Vihar Square RRL Post Office,
Bhubaneswar -751013 (Odisha)

2. Fact Sheet

This Fact Sheet comprising important factual data of the RFP is for quick reference to the Bidder.

Clause Reference	Topic
The Proposal	Odisha Computer Application Centre (OCAC) invites RFP for Selection of Agency for Supply, Installation & Commissioning of Three Hundred Sixty Three (363) numbers of Atal Tinkering LABs for School & Mass Education Department (S&ME), Government of Odisha.
Method of Selection	Quality and Cost Based Selection i.e. QCBS (80:20) method shall be used to select the bidder. The bidder is required to submit the bids General (Pre-qualification), Technical & Financial bid in eNivida portal (https://enivida.odisha.gov.in). Technical bid of those bidders who qualify in General Bid shall be opened. Financial bid of those bidders who qualify in Technical Bid by scoring 80% mark or above shall be opened.
Splitting of Bid	The work may be distribute among more than one bidder.
RFP Document Fee	The RFP document can be downloaded from the website www.odisha.gov.in or www.ocac.in or https://enivida.odisha.gov.in/ . The bidders are required to submit the RFP document fee of ₹11,200/- (inclusive of 12% GST) Eleven Thousand Two Hundred Only in shape of Bank Draft in favour of Odisha Computer Application Centre and payable at Bhubaneswar from any of the scheduled commercial banks along with the proposal (General Bid) documents.
Earnest Money Deposit (EMD)	The bidder must have submitted the EMD of ₹ 36,00,000/- (Rupees Thirty Six Lakhs only) in the shape of Bank Guarantee/Account Payee Demand Draft from any Nationalized / Scheduled Commercial Bank in favor of Odisha Computer Application Centre (OCAC) payable at Bhubaneswar. The EMD should be valid for a minimum period of 90 days from the last date of submission of the Bid. Bidders which are registered under Micro, Small & Medium Enterprises ministry of India or any State Govt. may be considered for exemption from EMD.
Performance Bank Guarantee (PBG)	Performance Bank Guarantee (PBG) @ 3% of the cost of the project from any Nationalized/Scheduled Commercial Bank in the prescribed format in favour of the Odisha Computer Application Centre shall be submitted by the successful bidder within 30 days of issue of work order.
Scope of Work	Selected Bidder is expected to deliver the equipment and services listed in Scope of Work as mentioned in this RFP.

RFP for Selection of Agency for Supply, Installation & Commissioning of 363 numbers of Atal Tinkering LABs for School & Mass Education Department (S&ME)

Language	Bid must be prepared by the Bidder in English language only.
Currency	The bidder should quote in Indian Rupees only. The total price inclusive of taxes, levies and duties will be considered for evaluation. So, the bidder must mention the base price and the tax component separately.
Validity Period	Proposals/bid must remain valid for minimum 180 days from the last date of bid submission.
Bid to be submitted on or before last date of submission at:	<p>The proposal must be submitted to:</p> <p>The General Manager (Admn.) Odisha Computer Application Centre (OCAC) OCAC Building, Plot No.-N-1/7-D, Acharya Vihar Square, RRL Post Office, Bhubaneswar-751013 (INDIA)</p> <p>Proposals must be submitted on or before 20-12-2022 by 03:00 PM through electronic mode only.</p>

3. Invitation for Bids

Odisha Computer Application Centre (OCAC) invites bids from eligible bidders who have the necessary qualifications for Procurement, Supply, Installation and Commissioning of Three Hundred Sixty-Three (363) numbers of Atal Tinkering LABs for School & Mass Education Department (S&ME), Government of Odisha for a period of THREE (03) Years, including ONE (01) Year Warranty Support Period & TWO (02) Years Comprehensive Annual Maintenance Support Period (CAMS) as per the "Scope of Work" described in this RFP. The detail school list is attached in this RFP.

The Bid document has been published in the official website of OCAC www.ocac.in, <https://enivida.odisha.gov.in> and <http://www.odisha.gov.in>. The tender advertisement has also been published in leading newspapers for wide circulation. Bidders are requested to go through the Bid document carefully and participate in the bidding process with all necessary details as required.

This RFP is issued by OCAC, which is the sole point of contact during the selection process. The Nodal Officer responsible for entire process is General Manager (Admin).

4. Background Information

Atal Innovation Mission is a flagship initiative of the Government of India, housed at NITI Aayog, with a focus to build an innovative and entrepreneurial ecosystem across India, with public-private partnerships. The Atal Tinkering Lab initiative is aimed at disrupting the Indian education system. It is creating a paradigm shift, where children as young as 12 years of age are being introduced to the world of technology innovation, and are experiencing a culturally different micro-environment in Indian schools, which allows them to work in their area of interest without a fixed curriculum. With ATL, problem solving has become an integral part of their behavior.

School & Mass Education Department (S & ME) is planning to implement Atal Tinkering LABs for enhancing the teaching learning process. The focus is to create workspaces where young minds can learn innovation skills, sculpt ideas through hands-on activities, work and learn in a flexible environment. ATL is encouraging students and teachers to experiment, explore and follow a self-learning path, thereby empowering them to think differently about problems and develop innovative solutions, by leveraging latest technology tools including 3D printing, Internet of Things, robotics, miniaturized electronics, space technology, drone technology, technology inspired textiles and so on.

This RFP is issued by OCAC, which is the sole point of contact during the selection process. The Nodal Officer responsible for entire process is General Manager (Admin). The purpose of this RFP is to provide the bidders with information to enable them to prepare and submit a proposal for Supply, Installation & Commissioning of Three Hundred Sixty-Three (363) numbers of Atal Tinkering LABs.

5. Requirement, Scope of Work, Deliveries & Timelines

The scope of work primarily focuses on Implementation of Atal Tinkering LABs in the selected schools of School & Mass Education Department (S&ME), Government of Odisha which includes procurement, supply, installation, commission, operation & maintenance support of Atal Tinkering LABs for a period of THREE (03) Years which includes ONE (01) Year Warranty Support Period from the date of Final Acceptance Test (FAT) of the Project and TWO (02) Years Comprehensive Annual Maintenance Support (CAMS) after completion of initial ONE Year Warranty Support Period.

5.1. Detailed Requirement under this Project

- a) Procurement, Supply, Installation, Commission and Maintenance of Atal Tinkering LABs.
- b) All the software and hardware required to meet the required functionalities should be supplied by the selected bidder.
- c) The product specifications are mentioned in detail in the **Annexure-3** under minimum technical specification. Please refer to the same for required sizing. Bidder should propose products in order to comply the requirement.

5.2. Detailed Scope under this Project

The major components factored for the project are listed below: -

- a.) Site survey & feasibility is to be undertaken for identification of the classrooms at each school for the establishment of Atal Tinkering LABs at respective site.
- b.) Handing/taking over the site for physical possession.
- c.) Procurement, Supply and installation of Atal Tinkering LABs hardware, operating system, application software etc. in the selected schools.
- d.) Configuration & Setup of Atal Tinkering LABs including hardware and software.

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- e.) The bidder while designing and implementing the LABs, needs to take into consideration that, the ATL space should be one single room having 1000 to 1500 sq. ft. area with maximum open space such that one section can be designated for lecturing and mentoring, while another section can simultaneously be used for collaborative project work. In exceptional cases, two adjacent rooms internally connected to each other could also be used. The ATL should be located in proximity to the main building of the school.
- f.) Two entry/exit points (including emergency points) must be clearly identified and labeled within the ATL.
- g.) The Bidder shall ensure the safe delivery of the equipment up to the designated place of installation. Any transit insurance, labor, road permits etc., if required for the same, shall be arranged by the Bidder at no extra cost to OCAC/Client Department.
- h.) Testing of the equipment commissioned and ensuring proper functioning at all levels.
- i.) Training of teachers for the operation of LAB will be conducted at the school level.
- j.) The bidder needs to submit the successful completion of training along with the attendance sheet and acknowledgment of the teachers.
- k.) The proposed solution should have latest technology features and standards.
- l.) Overall operation and management of the entire project for a period of 3 years including ONE (01) Year Warranty Support Period & TWO (02) Years Comprehensive Annual Maintenance Support Period (CAMS).
- m.) Deployment of requisite manpower with requisite qualification & experience for the operation support of Atal Tinkering LAB.
- n.) The Bidder will be required to operate and maintain the entire IT Infrastructure Equipment with its associated software and is responsible for entire Operation & Management Support of the project during the contract period for 3 years. However, the **school's** premises upkeep, safety and the electrical maintenance will be the responsibility of the school authorities.
- o.) The Bidder must ensure that the IT equipment and accessories supplied and delivered by them to each school are in good condition. Each IT equipment and accessories shall be packed in a non- hazardous packing of appropriate size. If any defect is found pursuant to the post-supply test in respect of the supplied quantity of the IT equipment and accessories, the Bidder shall replace the rejected equipment and accessories for the particular School with the new ones as per the instructions of OCAC Management.
- p.) The bidder is responsible to maintain documentation on the progress of the Atal Tinkering LAB work and will have to update the same on regular basis to OCAC Management Team.
- q.) At least 2 fire extinguishers must be placed at strategic locations inside the ATL.
- r.) Training for teachers on how to use the LAB.
- s.) Bidder has to supply content for TINKERING LAB. Bidder shall provide the study material for students
- t.) Helpdesk and onsite support for repair and maintenance of Atal Tinkering LAB hardware and software.

5.3. Warranty & Support

- The bidder has to provide ONE (01) Year Warranty Support Period from the date of Final Acceptance Test (FAT) of the Project and TWO (02) Years Comprehensive Annual Maintenance Support (CAMS) after completion of initial ONE Year Warranty Support Period.
- The bidder should ensure the smooth functioning of all the equipment supplied for Atal Tinkering LAB during the warranty & support period and to achieve the highest uptime on the offered solution.
- The bidder shall ensure that the equipment supplied shall not be declared as End of Support / End of Service for a period of five years and the software upgrades if any shall be available for at least five years from the date of commissioning of the device.
- **Advanced replacement/repair of hardware.** If the school requires repairing of an ATL equipment, then the bidder should provide a replacement till the time the equipment is fully repaired.
- **Software** updates and upgrades at no cost to OCAC/Client Department.
- **On-site** warranty support from the Bidder.
- The bidder needs to develop the supply chain in district wise to supply the required consumable after the completion of initial 1-year warranty period of the quoted equipment.
- Bidder shall provide preventive maintenance services on quarterly/half-yearly basis or as and when required to ensure that all the equipment's are functioning properly till the completion of the project.

5.4. Training & Handholding

Key training requirements of the Bidder are listed below: -

- i. Conduct training need assessment and prepare a detailed training strategy. Such strategy shall provide training set-up details, training approach and methodology, training plan etc.
- ii. Training Materials, Applications, User Manual and Completion Reports.
- iii. Bear the expenses towards training, quoted as part of the Financial Proposal submitted.
- iv. Provide hands-on training on the hardware, software application such that users are conversant with the functionalities, features and processes built in the solution.
- v. Submit Attendance Record of the attendees (in Hard copy) along with the session plan for the day.
- vi. Deploy adequate training resources.
- vii. Deployed trainers should be fluent in speaking Hindi, English & Odia.
- viii. The Bidder shall be responsible for training and handholding of the school teachers/headmaster so they can further train the other teachers accordingly.
- ix. The Bidder has to develop a training manual for each of the TINKERING LAB activity for the teachers which should act as a ready reckoner for reference by the teachers at school level.

x. Bidder has to train minimum three teachers at each school. Training to the teacher shall be conducted in batches at centralized location or at respective site school.

5.5. Helpdesk and Onsite support

The Bidder shall be required to set up a centralized Helpdesk support at OCAC Bhubaneswar office for logging issues and complaints from various stakeholders and resolving them in time bound manner.

The Bidder shall deploy adequate manpower including IT Coordinators / operators and IT Managers who would provide day to day operation & management support.

Bidder shall deploy manpower at schools at field level (Resident Field Engineer). Minimum qualification for manpower shall be any graduate/diploma with good Computer, Hardware, Networking and communication skills (both Hindi, English & Odia) who can manage LAB hardware and software components on site and provide training as well as hand holding to different stakeholders. List of all Manpower to be submitted within 30 working days from the date of issuance of Work Order.

5.6. Helpdesk

The helpdesk service will serve as a single point of contact for all the support related to Atal Tinkering LAB. The Helpdesk shall undertake the following activities: -

1. Log issues /Complaints/Grievances related to Atal Tinkering LAB components including Hardware, Software & Application etc. at each location identified by the department,
2. Track each issue/complaint/Grievance to resolution.
3. Escalate the issue/complaints/Grievances to OCAC/Department Authorities if necessary, as per the escalation matrix defined in discussion with the department
4. Provide feedback and resolution to the callers.
5. Helpdesk Phone Numbers to be provided by the department and Specific e-mail account for day to day support to be set up by the Department/OCAC.

It is required that IT Managers are deployed at the Helpdesk center, who will be responsible for handling all Level-1 IT and Hardware issues related to the different components of Atal Tinkering LAB. The IT manager shall be responsible for providing remote assistance to schools if required, and further assigning the call to district level IT support team, for personal visit in cases where the remote assistance is not possible to resolve the issue. On getting the required information about the issue from the IT manager, the district level Field Engineer should provide all necessary assistance in resolving the IT issues onsite and log the status update with the Helpdesk for closure.

5.7. Onsite Support

Bidder will provide ONE (01) Year Warranty Support Period from the date of Final Acceptance Test (FAT) of the Project and TWO (02) Years Comprehensive Annual

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Maintenance Support (CAMS) after completion of initial ONE Year Warranty Support Period at respective school. In addition, the Bidder shall ensure the following:

1. Set up Service Centers one in the state which would be responsible for any kind or repair, configuration, installation, replacement of parts or whole, etc. to all LAB components that may be brought by the Resident Field Engineer.
2. Deploy Six (06) Nos of Resident Field Engineer (at least 1 for each 60 Schools) for all Schools who shall be responsible for providing support to all schools within their designated area for any kind of after sales support, in coordination with centralized Helpdesk support team.
3. Any kind of handholding, orientation, training support, as needed by the intended users. It is planned that all such sessions shall be conducted at the school level however the IT Coordinators should be able, willing and flexible to visit any government school if required.

Bidder shall also arrange to repair / replace the defective device as per defined Response and Resolution times of placing a call. At least 5% of critical hot spares should be maintained till the completion of the warranty contract period.

Minimum Manpower Requirement		
Manpower	No of Persons	Qualifications
IT Manager	01	Minimum Qualification: BCA / B. Sc. (Computers)/ B.E. / B-Tech / MBA Minimum Experience Required: - 5 Years of Extensive High-Level Professional Experience & Skills in the fields of IT Infrastructure Management / Program or Project Management in Govt. / PSU / Private Sector in India.
Central Helpdesk Support/ IT Coordinators	02	Graduate/Diploma in any discipline with proficiency in English, Hindi and Odia and shall have minimum 2 to 3 years and above experience in IT Support Service Centre.
Resident Field Engineer	06	Any Graduate with minimum 1 to 2 years of experience in IT Hardware

6. Project Deliverables, Milestones & Time Schedule

The milestones, deliverables and time schedule for the implementation of project shall be as follows: -

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- a) The time specified for delivery and other activities as mentioned in the table below shall be deemed to be the essence of the contract and the successful bidder shall arrange supplies and provide the required services within the specified period.
- b) It should be noted that any delay in the project timelines shall attract Liquidated Damages to the Agency.

Sl. No.	Activity / Mile stone	Delivery Schedule
1	Delivery of Equipment	12 Weeks from date of issue of purchase order to the Bidder
2	Installation, Configuration & Integration	8 Weeks from date of Delivery of Equipment
3	UAT, Sign-off & Training	24 Weeks from date of purchase order to the

Note: -Total time for completion of the contract / project is 24 weeks.

6.1 Service Levels and Penalty Terms

Service Level Agreement (SLA) shall form part of the contract between OCAC/Client Department and the Bidder. SLA defines the terms of the Bidder's responsibility in ensuring the timely delivery and the compliance to the Performance Indicators as detailed in this RFP document. The Bidder shall comply with Service Levels requirements to ensure adherence to timelines, quality and availability of services. OCAC shall have the right to expect the following service levels as also to impose penalty on Bidder on its failure to meet them as under: -

Sl.No.	Description	Service Level	Applicable Penalty
1.	Supply and complete acceptance testing for 100% of the ordered quantity at all locations of device(s) within 168 days of issuance of Work Order by the Department	Within 168 days	No Penalty
		168 to 196 days	0.5 % (the value of undelivered and / or not accepted quantity) per week or part thereof, for every subsequent week subject to a max of 28 Weeks.
		> 196 days	The Contract shall be terminated and the PBG shall be forfeited.
		Within 2 working days from the date of reporting of issue	No Penalty

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2.	Resolution of any hardware or software issue related to the Device(s) during the maintenance period through helpdesk support.	> 3 - 14 working days	The bidder shall provide temporary replacement of device(s) in which the issue has been reported. Failing to do so will attract penalty of Rs. 200 per day per reported device
		> 3 - 14 working days	Rs. 200 per day per reported device, maximum up to 60 days, post that the department shall reserve the right to terminate the contract

7. Pre-Qualification/Eligibility Criteria

Following table describe the pre-qualification criteria. A bidder participating in the bidding process shall possess the following minimum pre-qualification/ eligibility criteria. Any bidder failing to meet the stated criteria shall be summarily rejected and will not be considered for Technical Evaluation.

Pre-Qualification Evaluation Criteria			
Sl. No.	PQ Criteria	Description of the Criteria	Documents to be Submitted
1	Legal Entity	<p>The bidder must be a company registered in India under Indian Companies Act 1956/2013 and must have GST registration & up- to-date Income Tax Return, PAN Number as on 31st March, 2022 and must be having business operations in India for the last five years as on date of bid submission.</p> <p>Note: - Consortium of any kind shall not be acceptable for this project. Any deviation would lead to disqualification or termination of the same.</p>	<p>a. Valid copy of certificate of incorporation and registration certificates.</p> <p>b. Copy of GST registration.</p> <p>c. Copies of relevant Certificates of registration Income Tax / PAN Number from the respective Government Department.</p>

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2	Turnover	The average annual turnover of the bidder during the last 3 financial years ending with 2021-22 (i.e. 2019-20, 2020-21 & 2021-22) should not be less than 9 Crores from IT/ITeS (as per the last published audited balance sheets).	- Audited Balance Sheets - CA Certificate
3	Net Worth	The net worth of the company must be positive in last three financial years ending at 31st March 2022.	- Certificate from CA
4(A)	Technical Capability - I	The bidder must have successfully undertaken at least the following numbers of similar assignments of value specified herein: One project of similar nature, not less than the amount ₹9,00,00,000/- (Nine Crores Only) OR Multiple projects (not more than 5 projects) of similar nature not less than the amount 12,00,00,000/- (Twelve Crore Only) "Similar Nature" is defined as experience in Implementing Atal Tinkering LABs / Robotics LABs in Schools under State Govt./Central Govt. in last three years, ending with 31st March, 2022.	Copy of the Work Order & Completion Certificates certified by competent authority / CA with valid UDIN Number. Annexure-10
4(B)	Technical Capability - II	The bidder must have setup/implemented and operate minimum 100 numbers of Atal Tinkering LABs / Robotics LABs, in Schools under State Govt./ Central Govt.in last three years, ending 31st March, 2022.	Copy of the Work Order & Completion Certificates certified by competent authority / CA with valid UDIN Number. Annexure-10
5	Bidder Quality Certification	The bidder must have valid ISO 9001:2015 Certificate as on date of submission of this RFP.	Copies of the valid certificates.
6	Blacklisting	The bidder should not be under a declaration of Ineligibility for corrupt and fraudulent practices issued by any Government or PSU in India.	Self- declaration Annexure- 6
7	OEM Authorization	The bidder must attach Manufactures Authorization certificate specific to this tender & Back-to- back support letter from OEMs for providing Comprehensive on-site support and services covered under this RFP.	OEM MAF Annexure- 9
8	Local Presence	The bidder should have an office in Odisha. However, if the presence is not there in the state, the bidder should give an undertaking for establishment of a project office, within one month of award of the contract.	Relevant Documents supporting office addresses/ Undertaking.

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9	RFP fee	The bidder must have made a payment of ₹11,200.00 (Eleven Thousand Two Hundred Only) towards RFP document fee.	The RFP document fee must be in favor of Odisha Computer Application Centre from any Nationalized / Scheduled Commercial Bank payable at Bhubaneswar.
10	EMD	The bidder must have submitted the EMD of ₹ 36,00,000/- (Rupees Thirty Six Lakhs only) in the shape of Bank Guarantee/Account Payee Demand Draft from any Nationalized / Scheduled Commercial Bank in favor of Odisha Computer Application Centre (OCAC) payable at Bhubaneswar. The EMD should be valid for a minimum period of 90 days from the last date of submission of the Bid. Bidders which are registered under Micro, Small & Medium Enterprises ministry of India or any State Govt. may be considered for exemption from EMD.	The EMD to be submitted as per Annexure- 11
11	BID Splitting	The work may be distribute among more than one bidders.	Self-Declaration to be submitted
12	Scrutiny & Processing Fees	Bidder is required to submit his samples along with demand draft of ₹1,00,000/- (One Lakh Only) drawn on any nationalized bank/schedule/schedule commercial bank in favour of OCAC payable at Odisha towards the expenses for Technical Document Scrutiny & Processing Fees. This amount is non-refundable.	Submit DD copy and sample of kits and components

13	Consortium	<p>A consortium is allowed only if the both partners have registered company or firm and work in Education Sector. The prime bidder should have all qualified criteria. Maximum consortium partners should not be more than two. In case of consortium, for evaluation of eligibility and technical assessment, documents of prime bidder shall be considered for assessment. However, the following documents of both the consortium parties are to be submitted:</p> <p>a. Certificate of incorporation/MoU/partnership deed on non-judicial stamp paper and signed by Chief Executives/Authorized Signatories of the consortium partners. The said agreement must be duly witnessed and notarized under the notarial seal and certificate of notary public.</p> <p>b. Copies of PAN, GST certificate with registration number.</p> <p>c. Prime bidder will ensure smooth execution at school level, keeping in view of the frequent monitoring and timely delivery of technical knowledge for tinkering equipment to the teachers and students by addressing the geographical situation, local language and adequate service center etc.</p> <p>d. The consortium shall provide single point of contact with OCAC and solely be responsible for execution and delivery of the work.</p>	Notarized copies and details of the bidders with sole contact key person details.
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Purchase Order (PO) provided for Prequalification and Technical Evaluation should be in the name of bidder only. Consortium Purchase orders will not be considered. All the components pertaining to ICT LAB should be included in single PO.

8. Technical Evaluation Criteria

In order to facilitate the technical proposal evaluation, the technical criteria laid down along with the assigned weights have been presented in subsequent section. The marking scheme presented here is an indication of the relative importance of the evaluation criteria. Bidders securing a minimum of 80% marks in the technical evaluation will only be considered for further financial bid evaluation. Bids or Tenders which do not secure the minimum specified technical score will be considered technically non-responsive and hence debarred from being considered for financial evaluation.

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- 1. Legal Valid Entity:** The bidder must be a registered Firm/Organization/Agency shall necessarily be a legally valid entity in the form of a Public Limited Company/a Private Limited Company/a LLP Firm/a Proprietorship Firm in India.

Legal Valid Entity (Number of years) as on 31.03.2022		Max. 10 Marks
(a)	5 to 7 years	05 Marks
(b)	More than 7 years	10 Marks

- 2. Experience - biggest work order of Govt. Schools in a single work order:** The biggest work order executed by the Firm/Organization in the field of establishing Robotics Labs/Tinkering Labs in State Board affiliated Govt. schools in India with Completion certificate.

Number of Govt. schools, in one single work order.		Max.20 Marks
(a)	100-300 schools	10 Marks
(b)	More than 300	20 Marks

- 3. Experience in installation of Tinkering Lab / Robotics Lab in single work order:** Bidder must have prior experience in working with Tinkering Lab / Robotics lab. Maximum value of single work order for setting up tinkering lab / robotics lab in schools under State Govt./ Central Govt.

Number of schools		Max. 20 Marks
(a)	5 Cr to 9 Cr	15 Marks
(b)	More than 9 Cr	20 Marks

- 4. Average Annual Turnover of the Bidder in last three financial years i.e. 2019-20, 2020-21, 2021-22 (CA Certified Letter to be submitted)**

Turnover of the Bidder in any one FY from last three Financial Year i.e. 2019-20, 2020-21, 2021-22		Max. 10 Marks
(a)	Less than 9 crore	0 Marks
(b)	More than 9 crore	10 arks

- 5. The biggest work order achieved by the Firm/Organization in a single financial year, in the last three financial years in capacity building of Schools teachers in 21st century skills like: AI/Coding robotics etc.**

Capacity building of schools teachers in single work order	Max. 10 Marks
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6. Presentation & Technical Evaluation

Parameters	Max Marks
The presentation should include the following:	
1. Proposed installation and implementation plan with approach & methodology in execution of the Project.	30
2. Proposed training content from grade 5 to 10 (Detailed curriculum)	
3. Online learning module for student with existing content to master Robotics, AI, Coding, Electronics and other important tinkering subjects with complete syllabus from grade 5 to 10 having minimum 10 projects each grade for students to perform practical on their own. Students should get free access to these learning modules and should have free login for students and teacher with OTP and Email.	
4. Proposed Content and Student Activities	
5. Proposed installation & implementation plan along with session wise syllabus/ curriculum for student facing classes	
6. Understanding of schools of Odisha and trainer hand-holding and capacity building plan.	

Note: - All the bidders who secure a Technical Score of 80 marks out of total 100 marks i.e. 80% of total marks or more will be declared as technically qualified and are eligible for financial bid opening.

9. Instruction to Bidders

9.1 General

- a) While every effort has been made to provide comprehensive and accurate background information and requirements and specifications, Bidders must form their own conclusions about the solution needed to meet the requirements. Bidders and recipients of this RFP may consult their own legal advisers with regard to this RFP.
- b) All information supplied by Bidders may be treated as contractually binding on the Bidders, on successful award of the assignment by OCAC on the basis of this RFP.
- c) No commitment of any kind, contractual or otherwise shall exist unless and until a formal written contract has been executed by or on behalf of the OCAC. Any notification of preferred bidder status by OCAC shall not give rise to any enforceable rights by the Bidder. OCAC may cancel this public procurement at any time prior to a formal written contract being executed by or on behalf of the OCAC.
- d) This RFP supersedes and replaces any previous public documentation & communications, and Bidders should place no reliance on such communications.
- e) The quoted equipment must have at least six years of life from the date of submission of the bid. The bidder should submit a declaration from the OEM, to

this effect in their proposal. This is non-negotiable and OCAC will not ask to submit the declaration from OEM, after opening of the bid. Bid without above mentioned declaration may be summarily rejected.

- f) Change request of any kind after opening of the bid and award of the work shall not be entertained.
- g) No further communication of any shortfall of bidding documents shall be considered after submission of bids through online.

9.2 Availability of RFP Document

- a) The availability of bidding documents shall be commenced from the date as mentioned in Notice Inviting Bids (NIB). The complete bidding document can be downloaded from the official website of OCAC (www.ocac.in) and Official website of Govt. of Odisha (www.odishsa.gov.in). The prospective bidders are requested download the bidding document from the websites and follow the bidding steps as prescribed.
- b) The bid Notice is also published in leading newspapers (Odia & English) for wide Circulation.

9.3 Compliant Proposals/ Completeness of Response

- a) Bidders are advised to study all instructions, forms, terms, requirements and other information in the RFP documents carefully. Submission of the bid shall be deemed to have been done after careful study and examination of the RFP document with full understanding of its implications.
- b) Failure to comply with the requirements set out in this RFP may render the Proposal non-compliant and the Proposal may be rejected. Bidders must include all documentation specified in this RFP.
- c) Follow the format and respond to each element in the order as set out in this RFP. Comply with all requirements as set out within this RFP.

10 Pre-bid Meeting & Clarifications

10.1 Pre-bid Conference

- a) A pre-bid conference will be scheduled by OCAC to clarify doubts of potential bidders in respect of the procurement and the records of such conference shall be published on the respective websites as Pre-bid clarifications.
- b) The Pre-Bid Conference will be held at the conference hall/Online Meeting of Odisha Computer Application centre, Bhubaneswar. The details of the Prebid meeting schedule will be shared later in the E-Mail id of respective participating organization.
- c) Prospective bidders, who have deposited the prescribed tender fee to the OCAC as specified in RFP, are allowed to attend the pre-bid conference/ meeting.
- d) The Bidders will have to ensure that their queries for Pre-Bid meeting should reach the below email id on or before the prescribed date as mentioned in "Important Dates and information" section of this RFP.

- e) Pre-Bid Queries to be sent to gm.ocac@odisha.gov.in General Manager (Admin.) with a copy to jayashree.mishra@odisha.gov.in & Chandan.pradhan@semt.gov.in
- f) The Queries should necessarily be submitted in the format as prescribed in **Annexure-4 of** this RFP.
- g) OCAC shall not be responsible for ensuring receipt of the bidders' queries. Any requests for clarifications post the indicated date and time may not be entertained by OCAC.

10.2 Responses to Pre-Bid Queries and Issue of Corrigendum

- a) The Nodal Officer notified by the OCAC will endeavor to provide timely response to all queries. However, OCAC neither makes representation or warranty as to the completeness or accuracy of any response made in good faith, nor does OCAC undertake to answer all the queries that have been posed by the bidders.
- b) At any time prior to the last date for receipt of bids, OCAC may, for any reason, whether at its own initiative or in response to a clarification requested by a prospective Bidder, modify the RFP Document by a corrigendum.
- c) The Corrigendum (if any) & clarifications to the queries from all bidders will be posted on www.ocac.in and www.odisha.gov.in.
- d) Any such corrigendum shall be deemed to be incorporated into this RFP.
- e) In order to provide prospective Bidders reasonable time for taking the corrigendum into account, OCAC may, at its discretion, extend the last date for the receipt of Proposals.

10.3 Amendments to RFP Document

At any time prior to the deadline for submission of Proposal, OCAC reserves the right to modify and amend any of the stipulated condition/criterion in the RFP, depending upon project priorities vis-à-vis urgent commitments. Such amendments in shape of corrigendum/addendum shall be hosted in the websites where the original RFP was hosted. The bidder shall acknowledge the receipt of each corrigendum/addendum by submitting a signed copy of it along with the Technical bid to the RFP issuing authority. Failure to acknowledge receipt of each corrigendum/addendum shall be interpreted as receipt of the corrigendum/addendum by the bidder and no claim will be entertained or accepted in this regard.

10.4 Period of Validity of Bids

- a) Bids submitted by the bidders shall remain valid for a period of 180 Days from the date of submission of RFP. A Bid valid for a shorter period shall be rejected by the procuring entity as nonresponsive Bid.
- b) Prior to the expiry of the period of validity of Bids, the procuring entity, in

exceptional circumstances, may request the bidders to extend the bid validity period for an additional specified period of time. A bidder may refuse the request and such refusal shall be treated as withdrawal of Bid and in such circumstances bid security shall not be forfeited.

- b) Bidders who agree to an extension of the period of validity of their Bids shall extend or get extended the period of validity of bid securities submitted by them or submit new bid securities to cover the extended period of validity of their bids. A bidder whose bid security is not extended, or that has not submitted a new bid security, is considered to have refused the request to extend the period of validity of its Bid.

10.5 Format and Signing of Bids

- a) All the Bids submitted by the bidders must be submitted with the checklist.
- c) Each page of the bidding document shall be kept with the office seal and signature by the authorized representative from the Bidder.

10.6 Cost & Language of Bidding

- a) The bidder shall be responsible for all costs incurred in connection with participation in the bid process, including site visits but not limited to, costs incurred in conduct of informative and other diligence activities, participation in meetings/ discussions / presentations, preparation of bid, in providing any additional information required by OCAC to facilitate the evaluation process, and in negotiating a definitive contract or all such activities related to the bid process. OCAC will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.
- b) The Proposal should be filled by the Bidder in English language only. If any supporting documents submitted are in any language other than English, translation of the same in English language is to be duly attested by the Bidders. For purposes of interpretation of the Proposal, the English translation shall govern.

10.7 Alternative/ Multiple Bids

- a) Each bidder shall submit only one Proposal. The bidder who submits or participates in more than one proposal will be disqualified.
- b) The bidder may quote for multiple brands/ make/ model for each item in the technical Bid and should also mention the details of the quoted make/ model of the respective items.

10.8 RFP Document Fees

The bidders are required to submit the RFP Document Fee of ₹11,200/- (Inclusive of 12% GST) in shape of Demand Draft in favour of Odisha Computer Application Centre and payable at Bhubaneswar from any Nationalized or Scheduled Commercial banks

along with the General Bid Proposal. Proposals received without or with inadequate RFP Document fees shall be rejected.

10.9 Bid Security/Earnest Money Deposit (EMD)

The bidder must have submitted the EMD of ₹36,00,000/- (Rupees Thirty-Six Lakhs only) in the shape of Bank Guarantee/Account Payee Demand Draft from any Nationalized / Scheduled Commercial Bank in favor of Odisha Computer Application Centre (OCAC) payable at Bhubaneswar. The EMD should be valid for a minimum period of 90 days from the last date of submission of the Bid.

10.10 Submission of Bids

- a) The bidders should submit their responses as per the format given in this RFP in the following manner.
 - i. Prequalification Proposal- in first cover
 - ii. Technical Proposal- in second cover
 - iii. Commercial Proposal - in third cover
- b) The Response to Pre-Qualification criterion, Technical Proposal and Commercial Proposal (as mentioned in previous paragraph) should be covered in separate sealed envelopes super scribing "Pre-Qualification Proposal ", "Technical Proposal" and "Commercial Proposal" respectively.
- c) Please Note that Prices should not be indicated in the Pre-Qualification Proposal or Technical Proposal but should only be indicated in the Commercial Proposal.
- d) The three envelopes containing Pre-Qualification Proposal, Technical Proposal and Commercial Proposal should be put in another single sealed envelope clearly marked as "Response to RFP for Selection of Agency for Supply, Installation & Commissioning of Three Hundred Sixty-Three (363) numbers of Atal Tinkering LABs for School & Mass Education Department (S&ME), Government of Odisha., RFP No. OCAC-SEGP-INFRA- 0019-2022-22075, Dated 22-11-2022. The Outer envelope thus prepared should also indicate clearly the name, address, telephone number, E-mail ID and fax number of the bidder to enable the Bid to be returned unopened in case it is declared "Late".
- f) All the pages of the proposal must be sequentially numbered and must contain the list of contents with page numbers. Any deficiency in the documentation may result in the rejection of the Bid.
- g) The proposal/bid shall be prepared in indelible ink. It shall contain no interlineations or overwriting, except as necessary to correct errors made by the bidder itself. Any such corrections must be initiated by the person (or persons) who sign(s) the proposals.
- h) All pages of the bid shall be signed and stamped by the authorized person or persons who sign the bid.

- i) In case of any discrepancy observed by OCAC in the contents of the submitted original paper bid documents with respective copies, the information furnished on original paper bid document will prevail over others.

10.11 Submission of Manufacturer's Authorization Form

Bidder must submit the dully signed MAF of the major items at the time of bid submission in the Prequalification Proposal as per the prescribed format (Annexure-9). The MAF should be submitted in OEM's letter head mentioning required details.

10.12 Deadline Submission of Bids

- a) Bidder must ensure to submit their response on or before the deadline date as mentioned in "Important Dates & Information" section of this RFP.
- b) Normally, the date of submission and opening of Bids will not be extended. In exceptional circumstances or when the bidding documents are required to be substantially modified as a result of discussions in pre-bid meeting/ conference or otherwise and the time with the prospective bidders for preparation of Bids appears insufficient, the date may be extended by the procuring entity. In such case the publicity of extended time and date shall be given in the manner, as was given at the time of issuing the original Bidding Document.
- c) It shall be ensured that after issue of corrigendum, reasonable time is available to the bidders for preparation and submission of their Bids. OCAC shall also publish such modifications in the bidding document in the same manner as the publication of initial bidding document. If the last date of submission or opening of Bids is a non-working day, the Bids shall be received or opened on the next working day.

10.13 Venue for Submission of Bids

Response to Bid, in its complete form in all respects as specified in the RFP, must be submitted to OCAC at the address specified below:

Address To	General Manager (Admin) Odisha Computer Application Centre N-1/7-D, Acharya Vihar Square, Bhubaneswar – 751013 Odisha
Telephone	0674-2567280/ 2567064/ 2567295
Fax	0674-2567842
Email id	gm.ocac@odisha.gov.in

10.14 Mode of Submission of Bids

Response to the Bids through speed post /registered post or by hand delivery will be accepted. The envelope must be firmly closed at the time of submission of the Bid.

10.15 Withdrawal, Substitution, and Modification of Bids

- a) If permitted by OCAC, a Bidder may withdraw its Bid or re-submit its Bid as per the instructions/ procedure prescribed by OCAC.
- b) Bids withdrawn shall not be opened and processed further.

10.16 Opening of Bids

- a) The Bids shall be opened by the Evaluation Committee in the presence of the bidders or their authorized representatives who choose to be present.
- b) The committee may co-opt experienced persons in the committee to conduct the process of Bid opening.
- c) The committee shall prepare a list of the bidders or their representatives attending the opening of Bids and obtain their signatures on the same. The list shall also contain the representative's name and telephone number and corresponding bidders' names and addresses. The authority letters, if any, brought by the representatives shall be attached to the list. The list shall be signed by all the members of Bid opening committee with date and time of opening of the Bids.
- d) The committee shall conduct a preliminary scrutiny of the opened technical Bids to assess the prima-facie responsiveness and ensure that the:
 - i. Bid is accompanied by bidding document fee, bid security or bid securing declaration, and processing fee (if applicable).
 - ii. Bid is valid for the period, specified in the bidding document.
 - iii. Bid is unconditional and the bidder has agreed to give the required performance security and other conditions, as specified in the bidding document are fulfilled.
 - iv. Any other information which the committee may consider appropriate.
- e) No Bid shall be rejected at the time of Bid opening except the Bids not accompanied with the proof of payment or instrument of the required price of bidding document, processing fee and bid security.
- f) The Financial Bid cover shall be kept unopened and shall be opened later on the date and time intimated to the bidders who qualify in the evaluation of technical Bids.

10.17 RFP Evaluation

10.17.1 Evaluation & Tabulation of Pre-Qualification Bid

- a) Determination of Responsiveness: The designated committee of OCAC shall determine the responsiveness of a Bid on the basis of bidding document and the provisions of pre-qualification/ eligibility criteria of the bidding document.
- b) A responsive Bid is one that meets the requirements of the bidding document without any material deviation, reservation, or omission where: -

1. "Deviation" is a departure from the requirements specified in the bidding document.
 2. "Reservation" is the setting of limiting conditions or withholding from complete acceptance of the requirements specified in the bidding document; and
 3. "Omission" is the failure to submit part or all of the information or documentation required in the bidding document.
- c) A material deviation, reservation, or omission is one that, if accepted, shall: -
1. Affect in any substantial way the scope, quality, or performance of the subject matter of procurement specified in the bidding documents; or
 2. Limits in any substantial way, inconsistent with the bidding documents, the procuring **entity's** rights or the **bidder's** obligations under the proposed contract; OR
 3. If rectified, shall unfairly affect the competitive position of other bidders presenting responsive Bids.
- d) The designated committee of OCAC shall examine the technical aspects of the Bid in particular, to confirm that all requirements of bidding document have been met without any material deviation, reservation or omission.
- e) Fulfillment of eligibility criteria: All the criteria mentioned in **Section 5 (Eligibility Criteria)** are mandatory. The bidder has to comply with all the components mentioned in the eligibility criteria.
- f) All supporting documents as mentioned in **Annexure-17**.

10.17.2 Evaluation & Tabulation of Technical Bid

The Technical evaluation committee will evaluate the technical response submitted by the Bidder. The Technical bid response includes the below details: -

- a) The Technical Bid response will be initiated with the Technical Bid Cover letter in specified format as mentioned in **Annexure- 8**.
- b) Detailed Compliance Sheet of the Technical Specification asked in the RFP (**Annexure-3**) dully signed in Company Letter Head.
- c) In case of deviation while evaluating the Technical Bid response based upon the criteria, the bid will be subjected for rejection.
- d) All supporting documents as mentioned in **Annexure-16**.

10.17.3 Evaluation & Tabulation of Financial Bids

Technically qualify of the proposal will be given weightage of 80% and financial proposal weightage will be given to 20%. The price proposal of only those agencies who qualify technically that is who score minimum 80 out of 100 marks will be opened.

Normalized Technical Score of the firm (Tn) = (Tf / Th) * 100

Tf: Technical score of the firm

Th: Highest Technical score

Normalized Financial Score of the firm (Fn) = (Qi / Qf) * 100

Qf: Quoted price of the firm

Qi: Lowest Quoted price

Total normalized score $St = Tn * 0.8 + Fn * 0.2$

10.17.4 Correction of Arithmetic Errors in Financial Bids

The Proposal evaluation committee shall correct arithmetical errors in substantially responsive Bids, on the following basis, namely: -

- a) If there is a discrepancy between the unit price and the total price that is obtained by multiplying the unit price and quantity, the unit price shall prevail and the total price shall be corrected, unless in the opinion of the Proposal Evaluation Committee there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price shall be corrected.
- b) If there is an error in a total corresponding to the addition or subtraction of Subtotals, the subtotals shall prevail and the total shall be corrected; and
- c) If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject to clause (a) and (b) above.

10.17.5 Exclusion of Bids / Disqualification

- a) A procuring entity shall exclude/ disqualify a Bid, if: -
 - i. The information submitted, concerning the qualifications of the bidder, was false or constituted a misrepresentation; or
 - ii. The information submitted, concerning the qualifications of the bidder, was materially inaccurate or incomplete; and
 - iii. The bidder is not qualified as per pre-qualification/ eligibility criteria mentioned in the bidding document;
 - iv. The Bid materially departs from the requirements specified in the bidding document or it contains false information;
 - v. the bidder, submitting the Bid, his agent or any one acting on his behalf, gave or agreed to give, to any officer or employee of the procuring entity or other governmental authority a gratification in any form, or any other thing of value, so as to unduly influence the procurement process;
 - vi. a bidder, in the opinion of the procuring entity, has a conflict of interest materially affecting fair competition.
- b) Bid shall be excluded/ disqualified as soon as the cause for its exclusion / disqualification is discovered.
- c) Every decision of a procuring entity to exclude a Bid shall be for reasons to be recorded in writing and shall be: -
 - i. communicated to the concerned bidder in writing;
 - iii. Published on the State Public Procurement Portal, if applicable.

10.18 Lack of Competition

- a) A situation may arise where, if after evaluation of Bids, the proposal evaluation committee may end-up with one responsive Bid only. In such situation, the Proposal Evaluation Committee would check as to whether while floating the Bid all necessary requirements to encourage competition like standard bid conditions, industry friendly specifications, wide publicity, sufficient time for formulation of Bids, etc. were fulfilled. If not, the tender would be re-floated after rectifying deficiencies. The bid process shall be considered valid even if there is one responsive Bid, provided that: -
- i. the Bid is technically qualified;
 - ii. the price quoted by the bidder is assessed to be reasonable;
 - iii. the Bid is unconditional and complete in all respects;
 - iv. there are no obvious indicators of cartelization amongst bidders; and
 - v. the bidder is qualified as per the provisions of pre-qualification/ eligibility criteria in the bidding document;
- b) The Evaluation Committee shall prepare a justification note for approval by the next higher authority of the procuring entity, with the concurrence of the accounts member.
- c) In case of dissent by any member of Proposal Evaluation Committee, the next higher authority in delegation of financial powers shall decide as to whether to sanction the single Bid or re-invite Bids after recording reasons.

10.19 Acceptance of the successful Bid and award of Project

10.19.1 Award Criteria

OCAC will award the Project to the successful bidder whose proposal has been determined to be substantially responsive and has been determined as the most responsive bids as per the process outlined above.

10.19.2 Right to Accept Any Proposal and to Reject Any or All Proposal(s)

OCAC reserves the right to accept or reject any proposal, and to annul the tendering process / Public procurement process and reject all proposals at any time prior to award of contract, without thereby incurring any liability to the affected bidder or bidders or any obligation to inform the affected bidder or bidders of the grounds for such action.

10.19.3 Purchaser's Procurement Rights

Without incurring any liability, whatsoever to the affected bidder or bidders, the Purchaser reserves the right to: -

- a) Amend, modify, or cancel this tender and to reject any or all proposals without assigning any reason.
- b) Change any of the scheduled dates stated in this tender.
- c) Reject proposals that fail to meet the tender requirements.
- d) Increase or decrease the quantity of the hardware items
- e) Remove any of the item at the time of placement of order.
- f) Increase or decrease no. of resources supplied under this project.
- g) Should the Purchaser be unsuccessful in negotiating a contract with the Agency, the Purchaser will begin contract negotiations with the next best value bidder in order to serve the best interest.
- h) Make typographical correction or correct computational errors to proposals
- i) Request bidders to clarify their proposal.

10.19.4 Notification of Award

Prior to the expiry of the validity period, OCAC will notify the successful bidder in writing or by fax or email, that its proposal has been accepted. In case the tendering process / public procurement process has not been completed within the stipulated period, OCAC may like to request the bidders to extend the validity period of the bid. The notification of award will constitute the formation of the contract. Upon the successful bidder's furnishing of Performance Bank Guarantee, OCAC will notify each unsuccessful bidder.

10.19.5 Issuance of Purchase Order

The OCAC shall reserve the right to negotiate with the bidder(s) whose proposal has been ranked best value bid on the basis of Technical and Commercial Evaluation to the proposed Project, as per the guidance provided by CVC. On this basis the Purchase order would be issued.

10.19.6 Performance Guarantee

The bidder should submit the Performance Bank Guarantee (PBG), within 30 days from the Notification of the award, for a value equivalent to 3% of the total cost of ownership i.e. total order value excluding taxes. The PBG should valid for a period of 3 years 6 months (i.e. 42 months). The Performance Guarantee shall be kept valid till completion of the project. The bidder shall be responsible for extending the validity date and claim period of the Performance Guarantee as and when it is due on account of non-completion of the project and support period. In case the Agency fails to submit performance guarantee within the time stipulated, the OCAC at its discretion may cancel the order placed on the Agency after giving prior written notice to rectify the same. OCAC shall invoke the performance guarantee in case the selected Service Provider fails to discharge their contractual obligations during the period or OCAC incurs any damages due to Service Provider's negligence in carrying out the project implementation as per the agreed terms & conditions.

10.19.7 Issuance of Purchase Order

After the OCAC notifies the successful bidder that its proposal has been accepted, OCAC shall issue a Purchase Order to the successful bidder taking into account the relevant clauses of RFP, pre-bid clarifications, Corrigendum, the proposal of the bidder in addition to other agreed clauses.

10.19.8 Failure to Agree with the Terms and Conditions of the RFP

Failure of the successful bidder to agree with the Terms & Conditions of the RFP and the Proposal submitted by the successful bidder, despite the deviations submitted by the Bidder are adequately considered and mutually agreed, shall constitute sufficient grounds for the annulment of the award, in which event OCAC may award the Project to the next best value bidder or call for new proposals from the interested bidders.

10.20 Confidentiality

- a) Notwithstanding anything contained in this bidding document but subject to the provisions of any other law for the time being in force providing for disclosure of information, a procuring entity shall not disclose any information if such disclosure, in its opinion, is likely to:
 - i. Impede enforcement of any law;
 - ii. Affect the security or strategic interests of India;
 - iii. Affect the intellectual property rights or legitimate commercial interests of bidders;
 - iv. Affect the legitimate commercial interests of the procuring entity in situations that may include when the procurement relates to a project in which the procuring entity is to make a competitive bid, or the intellectual property rights of the procuring entity.
- b) The procuring entity shall treat all communications with bidders related to the procurement process in such manner as to avoid their disclosure to competing bidders or to any other person not authorized to have access to such information.
- c) The procuring entity may impose on bidders and sub-contractors, if there are any for fulfilling the terms of the procurement contract, conditions aimed at protecting information, the disclosure of which violates (a) above.
- d) In addition to the restrictions specified above, the procuring entity, while procuring a subject matter of such nature which requires the procuring entity to maintain confidentiality, may impose condition for protecting confidentiality of such information.

11. General Terms and Conditions of RFP

Bidders should read these conditions carefully and comply strictly while submitting their bids.

11.1 Definitions

For the purpose of clarity, the following words and expressions shall have the meanings hereby assigned to them: -

- a) **"Request for Proposal (RFP)"**, means this detailed notification seeking a set of solution(s), services(s), materials and/or any combination of them.
- b) **"OCAC"**, shall mean the Odisha Computer Application Centre, the Designated Technical Directorate of Information Technology Department, Government of Odisha.
- c) **"GM"** shall mean the General Manager of Odisha Computer Application Centre or any authorized officer to act on his behalf for a specified work.
- d) **"Authorized Representative"** shall mean any person authorized by either of the parties.
- e) **"Agency/Vendor/Bidder"** means any firm offering the solution(s), service(s) and /or materials required in the RFP. The word Vendor/Bidder when used in the pre award period shall be synonymous with Bidder, and when used after award of the Work shall mean the successful Bidder or Agency to whom OCAC issues the Purchase Order for rendering of sales & services.
- f) **"Service"** means provision of Contracted service as per this RFP.
- g) **"Site"** shall mean the location(s) for which the Order has been issued and where the service shall be provided as per Scope mentioned in the RFP.
- h) **"Termination Notice"** means the written notice of termination of the Purchase Order issued by one Party to the other in terms hereof.

11.2 Language

- a) The Proposal should be filled by the bidders/Agency in English language only. For purposes of interpretation of the documents, the English translation shall govern. All Proposals and accompanying documentation will become the property of OCAC and will not be returned.
- b) The Purchase Order as well as all correspondence and documents relating to the Project exchanged by the successful/ Agency and the Purchaser, shall be written in English language only. Supporting documents and printed literature that are part of the Project may be in another language provided they are accompanied by an accurate translation of the relevant passages in the language specified in the special conditions of the contract, in which case, for purposes of interpretation of the Project, this translation shall govern.
- c) The successful Bidder/Agency shall bear all costs of translation to the governing language and all risks of the accuracy of such translation.

11.3 Notices

- a) Any notice given by one party to the other pursuant to the Project shall be in writing to the address specified in the Purchase Order. The term "in writing" means communicated in written form with proof of dispatch and receipt.
- b) A Notice shall be effective when delivered or on the Notice's effective date,

whichever is later.

11.4 Governing Law

The Project shall be governed by and interpreted in accordance with the laws of the Govt. of Odisha/Govt. of India unless otherwise specified in the Purchase Order.

11.5 Scope of Supply

- a) Subject to the provisions in the bidding document and Purchase Order, the Goods/Equipment and related services to be supplied shall be as specified in the bidding document (RFP).
- b) Unless otherwise stipulated in this document, the quantity and specifications are for minimum quantity and configuration respectively. The bidder may supply higher configuration.
- c) Unless otherwise stipulated in the Purchase Order, the scope of supply shall include all such items not specifically mentioned in the Purchase order but that can be reasonably inferred from the Contract as being required for attaining delivery and completion of the goods and related services as if such items were expressly mentioned in the Contract.
- d) The bidder shall not quote and supply hardware/ software that is likely to be declared as End of Sale and End of Service/ Support for the period as mentioned in BoM (**Annexure -2**) from the last date of bid submission. OEMs are required to mention this in the MAF for all the quoted hardware/ software. If any of the hardware/ software is found to be declared as End of Sale/ Service/ Support, then the bidder shall replace all such hardware/ software with the latest ones having equivalent or higher specifications without any financial obligation to the purchaser.

11.6 Project Value

- a) The Project value (PO Amount) shall be paid as specified in the Purchase Order subject to any additions and adjustments thereto, or deductions there from, as may be made pursuant to the Project.
- b) Prices charged by the Supplier/ Agency (for the Goods delivered and the Related Services performed under the Project shall not vary from the prices quoted by the Supplier/ Agency in its bid, with the exception of any price adjustments authorized in the special conditions of the Project.

11.7 Recoveries from Supplier/ Agency

- a) Recovery of liquidated damages, short supply, breakage, rejected articles shall be made ordinarily from bills.
- b) OCAC shall withhold amount to the extent of short supply, broken/ damaged or for rejected articles unless these are replaced satisfactorily. In case of failure to withhold the amount, it shall be recovered from performance security deposit of AGENCY available with OCAC.

c) The balance, if any, shall be demanded from the Supplier/ Agency and when recovery is not possible, OCAC shall take recourse to law in force.

11.8 Taxes & Duties

- a) The GST if applicable shall be deducted at source.
- b) For goods/Equipment supplied from outside India, the successful/ Agency shall be entirely responsible for all taxes, stamp duties, license fees, and other such levies imposed outside the country.
- c) For goods/Equipment supplied from within India, the successful Agency shall be entirely responsible for all taxes, duties, license fees, etc., incurred until delivery of the contracted Goods to the Purchaser.
- d) If any tax exemptions, reductions, allowances or privileges may be available to the successful Agency in India, OCAC shall use its best efforts to enable the successful Agency to benefit from any such tax savings to the maximum allowable extent.

11.9 Packing and Documents

- a) The Agency shall provide such packing of the Goods as is required to prevent their damage or deterioration during transit to their final destination, as indicated in the Purchase Order. During transit, the packing shall be sufficient to withstand, without limitation, rough handling and exposure to extreme atmospheric temperatures, salt and precipitation, and open storage. Packing case size and weights shall take into consideration, where appropriate, the remoteness of the final destination of the Goods and the absence of heavy handling facilities at all points in transit.
- b) The packing, marking, and documentation within and outside the packages shall comply strictly with such special requirements as shall be expressly provided for in the Project, including additional requirements, if any, specified in the Purchase Order, and in any other instructions ordered by OCAC.

11.10 Insurance

The Agency should be responsible for undertaking comprehensive insurance including liability insurance, system and facility insurance and any other insurance for the personnel, Assets, data, software, etc relating to this assignment.

11.11 Transportation

The Agency shall be responsible for transport by sea, rail and road or air and delivery of the material in the good condition to the consignee at project locations. In the event of any loss, damage, breakage or leakage or any shortage the bidder shall be liable to make good such loss and shortage found at the checking/ inspection of the material by the consignee. No extra cost on such account shall be admissible.

11.12 Extension in Delivery Period and Liquidated Damages (LD)

a) Except as provided under clause "Force Majeure", if the supplier/ selected bidder fails to deliver the related Services within the period specified in the Purchase Order, the Purchaser may without prejudice to all its other remedies under the Contract, deduct from the Purchase Order Price, as liquidated damages, a sum equivalent to the percentage specified in Section "Service Level Standards" for each week or part thereof of delay until actual delivery or performance, up to a maximum deduction of the percentage specified in the bidding document and/ or Purchase Order. Once the maximum is reached, the Purchaser may cancel the Purchase Order pursuant to clause "Termination".

b) The time specified for delivery in the bidding document shall be deemed to be the essence of the Project and the supplier/ selected bidder shall arrange goods supply and related services within the specified period.

c) Delivery period may be extended with or without liquidated damages, if the delay in the supply of goods or service is on account of hindrances beyond the control of the selected bidder:

i. The selected bidder/Agency shall request in writing to the Purchaser giving reasons for extending the delivery period of service, if he/she finds himself

/herself unable to complete the supply of goods or service within the stipulated delivery period or is unable to maintain prorata progress in the supply of goods or service delivery. This request shall be submitted as soon as a hindrance in delivery of goods and service occurs or within 15 days from such occurrence but before expiry of stipulated period of completion of delivery of goods and service after which such request shall not be entertained.

ii. The Purchaser shall examine the justification of causes of hindrance in the delivery of goods and service and the period of delay occurred due to that and recommend the competent authority on the period of extension which should be granted with or without liquidated damages.

Normally, extension in delivery period of service in following circumstances may be considered without liquidated damages:

➤ When delay has occurred due to delay in approval by OCAC.

➤ When the delay has occurred in providing space or any other infrastructure, if OCAC was required to provide the same as per the terms of the Bid.

iii. If the competent authority agrees to extend the delivery period/ schedule, an amendment to the Purchase Order with suitable denial clauses and with or without liquidated damages, as the case may be, shall be issued. The amendment letter shall mention that no extra price or additional cost for any reason, what so ever beyond the contracted cost shall be paid for the delayed supply of goods and service.

11.13 Warranty

a) The bidder will provide the warranty support for the period of one year from the date of Final Acceptance Test (FAT).

b) The bidder shall either repair or replace the defective goods or parts thereof with brand new genuine/ authentic ones having similar or higher specifications from the respective OEM as per the time period specified.

11.14 Termination

OCAC may at any time terminate the Purchase Order by giving written notice to the Bidder if the Bidder becomes bankrupt or otherwise insolvent. In this event, termination will not prejudice or affect any right of action or remedy, which has accrued or will accrue thereafter to OCAC. OCAC reserves the right to cancel the Purchase Order in the event of happening one or more of the following Conditions:

- a) Failure of the successful bidder to accept the contract.
- b) Delay in delivery beyond the specified period.
- c) In addition to the cancellation of the contract, OCAC reserves the right to appropriate the damages through encashment of Bid Security / Performance Guarantee given by the Bidder.
- d) OCAC would not be liable to pay any damages to the Agency in cases comprising termination for default.

11.15 Settlement of Disputes

- a) General: If any dispute arises between the supplier/ Agency and OCAC during the execution of a Project that should be amicably settled by mutual discussions. However, if the dispute is not settled by mutual discussions, a written representation will be obtained from the supplier/ Agency on the points of dispute. The representation so received shall be examined by the concerned Committee which sanctioned the tender. The Procurement Committee may take legal advice of a counsel and then examine the representation. The supplier/ Agency will also be given an opportunity of being heard. The Committee will take a decision on the representation and convey it in writing to the supplier/ Agency.
- b) Standing Committee for Settlement of Disputes: If a question, difference or objection arises in connection with or out of the Order issued or the meaning of operation of any part, thereof or the rights, duties or liabilities of either party have not been settled by mutual discussions or the decision of tender sanctioning Procurement Committee, it shall be referred to the empowered standing committee for decision.

12. Special Terms and Conditions of RFP

12.1 Payment Terms and Schedule

The payment schedule is as follows: Each milestone payment will be made to the bidder against submission of Performance Bank Guarantee (PBG) which is THREE PERCENTAGE of the Project Cost)

Sl.No.	Project Milestone	Payment (%)	Documents Required
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1	Delivery of Equipment & Verification	50% of the contract value	1. Original Delivery Challan 2. Original Invoice (In triplicate) Note: In case the site is not ready and any dependency from the department related to site clearance/readiness for delivery of material, then the bidder will get 60% of the amount towards delivery.
2	Installation, Configuration & Integration	30% of the contract value	1. Installation Certificate 2. Warranty Certificate
3	User Acceptance Test, Sign-off & Training	12% of the contract value	1. Training to User Department 2. Sign-off from the school
4	Day-to-Day Operation Maintenance of Hardware Equipment and Deployed Manpower Support Services for entire two years	1% of the contract value including Manpower x 8 Nos of QGRs Payable on Quarterly Basis.	On submission of manpower attendance sheet with seal and signature of the successful bidder. after the end of respective quarter. (Total 8 Quarters)

12.2 Payment of Goods & Services Tax

GST shall be shown extra by the bidder in their invoices for the items applicable. The same shall be paid by OCAC as per actual after verification. If there is any tax savings, the same shall be reduced from the payable amount. In case of any new incidence of tax or increase in existing tax rates taking place during the Project Period, that shall be borne and payable by the OCAC over and above the agreed price for each item as may be applicable as per the Invoice raised by the agency on the OCAC. Similarly, any reduction in taxes shall be to the benefit of OCAC.

12.3 Penalty

Penalty will be charged @ 0.5% of the Project value per week subject to maximum of 5% of total order value, in case of delayed in supply of stipulated time period. Similarly, 0.5 % will be deducted from the PBG on each time there is a delay in providing support in terms of Repair/replace of **equipment's** per hour beyond the minimum support assistance response period of 48 Hrs.

Annexure- 1: Particulars of the Bidders

Sl. No.	Information Sought	Details to be Furnished
1	Name of the bidding Company	
2	Address of the Company	
3	Incorporation status of the firm (Public limited / Private limited, etc.)	
4	Year of Establishment	
5	Date of registration	
6	RoC Reference No.	
7	Details of company registration	
8	Details of registration with appropriate authorities for GST	
9	Name, Address, e-mail ID, Phone nos. and Mobile Number of Contact Person	
10	Roles & Responsibilities	

Annexure-2: Indicative Bill of Quantity (BOQ)

Bill of Quantity (BOQ) For One Atal Tinkering LAB			
Sl. No.	Item Details	UoM	Quantity
1	Atal Tinkering LAB Equipment	Nos.	01
2	Laptop	Nos.	03
3	Projector	Nos.	01
4	Projector Screen/Mat finish White board	Nos.	01
5	20W Speaker	Nos.	01
6	Projectors hanging kit	Nos.	01
7	Printer (B/W)	Nos.	01
8	Steel Almira	Nos.	01
9	2 KG Portable Fire Extinguisher	Nos.	02
10	Site Preparation in ATL LAB i.e. Electrical fittings, Lan fittings, Paintings, Whitewashing etc.	Lot	01
11	One Time Delivery & Installation Cost	Nos.	01

Manpower For Atal Tinkering LAB (363 Nos)			
Sl. No.	Manpower Category	UoM	Quantity
1	IT Manager	Nos.	01
2	Central Helpdesk Support/IT Coordinators	Nos.	02
3	Resident Field Engineer at least 1 for each 60 Schools	Nos.	06

Annexure-3 Technical Specifications

Following equipment and Kits for the Tinkering Laboratories activities in each school.				
1. Electronics Development, Robotics, Internet of Things and Sensors				
Category	Name	Specification	Qty	Type
Electronics Development	Arduino Uno or equivalent	ATmega328P - 8 bit AVR family microcontroller, equivalent or better.	30	Consumable
		Operating Voltage: 5V		
		Digital I/O Pins: 14 (of which 6 provide PWM output)		
		PWM Digital I/O Pins : 6		
		Accessories : Case shell enclosure, compatible USB cable (length - 6 inch or more)		
Electronics Development	Arduino Nano or equivalent	ATmega328P - 8 bit AVR family microcontroller, equivalent or better.	10	Consumable
		Operating Voltage: 5V		
		Digital I/O Pins : 14 (of which 6 provide PWM output)		
		Analog Input Pins : 8		
		Accessories : Compatible USB cable (length -6 inch or more)		
Electronics Development	Arduino Mega or equivalent	ATmega 2560P - 8 bit AVR family microcontroller, equivalent or better.	10	Consumable
		Operating Voltage: 5V		
		Digital I/O Pins : 54 (of which 6 provide PWM output)		
		Analog Input Pins: 16		
		Accessories: Case shell enclosure, Compatible USB cable (length -6 inch or more)		
Electronics Development	Raspberry Pi 3 Model B+	RASPBerry PI 3 MODEL B+, equivalent or better	5	Consumable
		Accessories - MicroSD card - 32 GB, USB 3.0 cable (1 meter), HDMI to VGA - 1 meter, HDMI to VGA adapter, Case shell enclosure		
Electronics	Breadboards & Mini	Solderless 400 pin breadboard	30	

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Development	Breadboard	Solderless 800 pin breadboard	20	Consumable
		Self-Adhesive Proto Shield	20	
Electronics Development	General Purpose solderable Board	FR2 A Grade Material (140 x 90 mm)	30	Consumable
		FR2 A Grade Material (80 x 55 mm)	30	Consumable
	Berg Strips	Female Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin	30	Consumable
		Male Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin	30	Consumable
Electronics Development	16x2 LCD display	Dot matrix LCD display. 16 characters X 2 lines. I2C	20	Consumable
Electronics Development	USB Cables	USB Cable Set (A to B, 12 inch or more)	10	Consumable
Electronics Development	USB Cables	USB Cable Set (Mini, 12 inches or more)	10	Consumable
Electronics Development	Battery	9-12V 2000 to 2500 mAh rechargeable battery with 2 chargers. Equivalent or better	10	Consumable
Electronics Development	Resistor Kit	One kit contains - 30 carbon film resistors of 20 different resistance values each assorted, packaged together and labelled.	20	Consumable
		Wattage: 0.125W to 1W		
		Values: 0Ω, 1.5Ω, 4.7Ω, 10Ω, 47Ω, 100Ω, 220Ω, 330Ω, 470Ω, 680Ω, 1kΩ, 2.2kΩ, 3.3kΩ, 4.7kΩ, 10kΩ, 22kΩ, 47kΩ, 100kΩ, 330kΩ, 1MΩ		
Electronics Development	Capacitor Kit	One kit contains - 20 electrolytic capacitors of 10 different capacitance values each.	20	Consumable
		Assorted kit packaged together and labelled.		
		Values: 10pF, 22pF, 100pF, 1nF, 10nF, 100nF, 1μF, 10μF, 100μF, 1000μF		
Electronics Development	Linear Voltage Regulator	7805, 7812, 7809	30	Consumable
Electronics	Water Pump module	DC12V 3W Submersible Water	4	Consumable

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Development		Pump		
Electronics Development	Piezoelectric Plate	Normal Copper based 4 cm Diameter approx.	30	Consumable
Electronics Development	8*8 LED Matrix Module	Max7219 Dot LED Matrix Module. MCU Control LED Display Module	10	Consumable
Electronics Development	Bluetooth module	HC 05 Bluetooth module	15	Consumable
		Voltage Rating: 5 V		
Electronics Development	7 Segment Led Display	LED 4-Digit Display Module	20	Consumable
		Voltage Rating: 2.4V to 5.5V		
		4-Pin interface:		
		Vcc, Gnd, Data, Clock		
Electronics Development	GSM	Sim900 GPRS Transfer Board Micro Sim Gsm Core TTL Port Module for Arduino	4	Consumable
Electronics Development	GPS	GY-NEO6MV2 new GPS module	4	Consumable
Electronics Development	Laser Diode Emitter	650 nm 5mW Mini Laser Dot Diode Module	10	Consumable
Electronics Development	LDR Module	5mm/12mm, Photosensitive LDR Light Sensor Module	30	Consumable
Electronics Development	Keypad	Universal 16 Key Switch Keypad	10	Consumable
Electronics Development	JoyStick	2-axis joystick with push button function	10	Consumable
Electronics Development	Active Buzzer	Small 5 volt	40	Consumable
		Big 5 volt	40	Consumable
Electronics Development	Motor driver Module	L293D	10	Consumable
Electronics Development	Sound Playback Module	ISD1820 voice recording module or equivalent	10	Consumable
Electronics Development	DC Plastic Gear motor with wheel	12V, 150RPM, Side Shaft BO (Battery operation) Motor	40	Consumable
Electronics Development	Node MCU	ESP 8266	6	Consumable
		I2C, 1 wire, plug and play		
Electronics Development	WeMos D1 R2	WeMos D1 R2 with WiFi ESP 8266	6	Consumable
		Operating Voltage: 5V		
Electronics Development	Vibrating Motor	Weight: 10 Grams	20	Consumable
		Operating Voltage: 1.5 to 3V		
Electronics Development	Alligator Connectors	Multi-Colour Alligator Connectors - 12 inch	200	Consumable
Electronics Development	Battery clips with DC Jack	9-volt battery clips with DC Jack	40	Consumable
Electronics Development	Hook-up Wires	Red & Black set 100 Meters each	4	Consumable
Electronics Development	Jumper Cable	Male-Male	1000	Consumable
		Male-Female	600	
		Female-Female	400	
Electronics Development	RGB LEDs	Regular 5mm 3-5 volt Range	400	Consumable
Electronics Development	LEDs (Red)	Regular 5mm 3-5 volt Range	1000	Consumable

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Electronics Development	LEDs (Green)	Regular 5mm 3-5 volt Range	1000	Consumable
Electronics Development	LEDs (Blue)	Regular 5mm 3-5 volt Range	1000	Consumable
Electronics Development	LEDs (Yellow)	Regular 5mm 3-5 volt Range	1000	Consumable
Electronics Development	LEDs (White)	Regular 5mm 3-5 volt Range	1000	Consumable
Electronics Development	Timer IC - LM 555	LM 555 Timer IC.	30	Consumable
		Voltage range - 4.5V to 16V		
Electronics Development	Atmega16u2	8 bit microcontroller Individual IC (DIP).	10	Consumable
		Voltage range: 2.7V to 5.5V.		
		Operational Range: -40°C to +80°C		
Electronics Development	Diodes and Transistors Kit	One Kit Contains - 25 Assorted Basic Diodes of 4 different types each.	3	Consumable
		Types: NPN Transistor - 2N3904, BC547 PNP Transistor - 2N3906, BC557 Silicon Diode		
		- 1N4148, Power Diode - 1N4004/4001.		
		Equivalent or better.		
		Wattage: 1W, Current rating: 1A		
		Assorted kit packaged together and labelled.		
Electronics Development	Button Switch Set	One Kit Contains - 100 buttons of different types.	3	Consumable
		Types: Push, toggle, rotary, selector and slide switch.		
		Assorted kit packaged together and labelled.		
Electronics Development	Capacitive touch Module	MPR 121 with I2C.	20	Consumable
		Voltage Range:		
		2.5V to 3.6V DC.		
Electronics Development	Capacitive Touch Switch Module	Digital Capacitive touch switch module -TTP223B	10	Consumable
		Voltage Range: 2V to 5V DC.		
Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module	LM393	20	Consumable
		Detection distance:		
		2 - 30 cm		
Internet of Things & Sensors	Triple Axis Magnetometer	3-Axis Magneto resistive Sensors	10	Consumable
		I2C Digital Interface		
		Integrated 12-bit ADC		
		Range of -8 to +8 Gauss		
		160 Hz Maximum o/p rate		
		Operating range:		
		20 - 95 % RH		

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Internet of Things & Sensors	Humidity Sensor	Temperature: 0 - 60 Celsius	10	Consumable
		Power supply:		
		1.5V AC (Max sine)		
		Operating frequency: 500Hz - 2kHz		
Internet of Things & Sensors	MQ Series	MQ - 2 Smoke Detection	3	Consumable
		MQ-3 Alcohol - Ethanol Sensor	3	
		MQ-4 Methane Natural Gas Sensor	3	
		MQ-5 Methane Liquified Gas Sensor	3	
		MQ-6 Liquified Petroleum Gas Sensor	3	
		MQ-7 High Sensitivity CO Carbon Monoxide Sensor Detector	3	
		MQ-8 Hydrogen Gas Sensor	3	
		MQ-135 Air Quality Sensor	3	
Internet of Things & Sensors	IR transmitter/ receiver	TSOP 1738	10	Consumable
		Switching rate: 38 KHz		
		Voltage Rating: 5V		
Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible	Working Voltage - DC 5V	40	Consumable
		Working current - 15 mA		
		Working Frequency - 40 Hz		
		Range - 1 cm to 4 m		
		Effectual Angle - <15°		
		Measuring Angle - 30°		
		Resolution - 0.3 cm		
Internet of Things & Sensors	Triple Axis accelerometer-	3-axis sensing	10	Consumable
		Small, low profile package		
		4 mm × 4 mm × 1.45 mm LFCSP		
		Low Power: 350 μ A (typical)		
		Single-supply operation: 1.8 V to 3.6 V		
		Temperature stability		
Internet of Things & Sensors	PIR Motion Detector Module	High digital pulse when motion detected	20	Consumable
		Low digital pulse when idle /no motion detected		
		Sensitivity range (up to 6 m)		
		Power supply: 5V – 12V		
Internet of Things & Sensors	Pulse Rate Heart Sensor	Pulse Rate Sensor Finger Based (finger or earlobe) Working voltage 3-5V	4	Consumable
Internet of Things & Sensors	Relay Module	5V 10A - 2 Channel Relay Module. Compatible with Arduino.	20	Consumable
Internet of Things & Sensors	Relay Module	5V 10A - 1 Channel Relay Module. Compatible with Arduino.	20	Consumable
Internet of	Big Sound	Large Electret capsule sound		

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Things & Sensors	microphone module	module	10	Consumable
Internet of Things & Sensors	Big Sound microphone module	Large Electret capsule sound module	10	Consumable
Internet of Things & Sensors	Soil Moisture Sensor module	FC-28 with LM293 comparator Operating Voltage: 3.3V to 5V.	6	Consumable
Internet of Things & Sensors	Touch Sensor	Capacitive Touch Sensor Module. TTP22X series. Voltage Range: 2.4V to 5.5V	6	Consumable
Internet of Things & Sensors	Metal Touch Sensor Module	KY-036 or equivalent metal touch sensor module	6	Consumable
Internet of Things & Sensors	Rain Drop Sensor	Rain Sensitive, Rain Drop Detection Sensor Module. Voltage Range: 3.3V to 5.5V. Size: 5mm X 40mm or equivalent.	6	Consumable
Internet of Things & Sensors	Flex Sensor	Flex Sensor. Size - 2.2 Inches	6	Consumable
Internet of Things & Sensors	Temperature Sensor	LM35 Full range temperature sensor. Voltage Range: 4V to 30V. Error: $\pm 0.5^{\circ}\text{C}$	6	Consumable
Internet of Things & Sensors	Temperature and humidity sensor module	DHT 11 Voltage Range: 3V to 5V	40	Consumable
Internet of Things & Sensors	Force Pressure Sensor	Force sensitive resistor with a square, 1.75x1.5" sensing area	4	Consumable
Internet of Things & Sensors	Colour Recognition Sensor	TCS3200 Colour Recognition Sensor	4	Consumable
Internet of Things & Sensors	Water Flow Sensor	Arduino Compatible Water flow sensor. 5V DC Input.	4	Consumable
Internet of Things & Sensors	Sound Sensor	Sound Sensor Module, Microphones module	10	Consumable
Internet of Things & Sensors	IR Sensors Array module for Line Following	8 IR Sensors Array module for Line Following Operating Voltage: 5V	10	Consumable
Internet of Things & Sensors	Power Bank	10000 mAh 5-volt Power Bank	5	Consumable
Internet of Things &	RFID Reader -	Current : 13-26mA / DC 3.3V Idle Current : 10-13mA Sleep Current <80uA Peak Current <30mA Operating Frequency:	10	Consumable

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Sensors	Tags	13.56MHz<30mA		
		Read range between 20 cm to 1 m		
Internet of Things & Sensors	RF Modules Tx & Rx 315 MHz ASK	Frequency Range: 433.92/315 MHz	10	Consumable
		Supply Voltage: 3 – 6 V		
		Output: 4 – 16 Dbm		
		Low power consumption		
		Easy application		
Robotics	Stepper motor with Driver board	28BYJ-48 ULN2003 5V Stepper Motor + ULN2003 Driver Board	10	Consumable
Robotics	DC motor	12V DC Gear 150 RPM	20	Consumable
Robotics	Servo motors	Position Servo Angle based Metal Gear	10	Consumable
		Small Servo Metal Gear	10	
		Continuous Metal Gear Servo 360	10	
		Small Servo Plastic Gear	40	
Robotics	150 RPM BO Motor	150 RPM BO Motor	10	Consumable
Robotics	L298P Motor Driver	L298P Motor Driver Shield or relative Driver Shield	10	Consumable
Robotics	Servo Motor Tester	CCPM 3 channel Servo Tester	4	Consumable
DIY Kit	Robotics DIY Kit	Robotics DIY kit with programmable intelligent brain/brick.	3	Equipment
DIY Kit	Mechanical (Modular) Construction kit	Metal/plastic mechanical construction kit compatible with electronic equipment.	5	Equipment
STEM Learning/App lication Kit	Drone Kit	Educational Purpose	1	Equipment
	Aerospace Kit		1	
	Automobile Kit		1	
	Bio-Medical Kit		1	
	Agri-Tech Kit		1	
	Water/ Sanitation Kit		1	
	Bio Tech Kit		1	
	Other Potential STEM Application Kit		1	

2. Rapid Prototyping Tools

Category	Name	Description	Suggested Quantity	Type
		Printer Type: FDM (Fused Deposition Modelling), Minimum Dimensions: 160mm *160mm *160mm Build Size or 4 litre Build Volume., Nozzle: 0.3mm to 0.4mm nozzle diameter, slicing software should be free or Open source, LCD Screen UI		

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Rapid Prototyping Tools	3D Printer Kit and tools	that display print metrics, Good Heated Print bed. Material Compatibility - PLA, ABS, and derivatives of PLA, Ninjaflex Quality Anti-bacterial/fungal Cover. Repair Kit - with spare springs, screws, keys, tweezers, etc.	1	Equipment
Rapid Prototyping Tools	Dedicated UPS/Power back up	Dedicated UPS/Power Back up with 2-hour battery backup.	1	Equipment
Rapid Prototyping Tools	Filament for 3D printer	Compatible 1000 Grams Filament in 5 different colours	5	Consumable
Rapid Prototyping Tools	Filament Storage Box	Compatible Filament storage box	5	Consumable
Rapid Prototyping Tools	Set of Arts & Crafts Accessories – e.g.- stationary items and basic prototyping material	Cardboard	5	Consumable
		Foam core boards	5	
		20m spool of thick strings various colour	5	
		Rubber band	100	
		Popsicle sticks	100	
		Wood glue – 500 ml	2	
3. Mechanical, Electrical and Measurement Tools				
Category	Name	Description	Qty	Type
Mechanical Tools	Hacksaw Frame	Size: 12 inches	1	Equipment
Mechanical Tools	Hacksaw blades	Size: 12 inches	10	Consumable
Mechanical Tools	Mini Hacksaw Frame	Size: 6 inches	1	Equipment
Mechanical Tools	Mini Hacksaw blades	Size: 6 inches	10	Consumable
Mechanical Tools	Pliers: 4.5-inch size	External Straight	1	Equipment
		Nose Circlip Plier	1	
		Long Nose Plier	1	
		Combination Mini Plier	1	
		Wire stripping pliers	1	
		Bent nose plier	1	
		Needle nose pliers	1	
Mechanical Tools	Tweezer Set	6 Pc Non-Magnetic Tweezer Set Size - 6 inches	2	Equipment
Mechanical Tools	Ball Pein Hammer	Ball Pein Hammer Weight - 0.75kg	1	Equipment
Mechanical Tools	Steel Shaft Claw Hammer	Claw Hammer Steel Shaft Weight - 0.75kg	1	Equipment
Mechanical Tools	C-Clamp	Metal Clamp: 3-inch size	4	Equipment
Mechanical Tools	Allen Key Set	10 Piece Ring Imperial Allen Hex key	1	Equipment
		Drill Machine with accessories Hammer/Screw		

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Mechanical Tools	Drill Machine Set	and clockwise/anticlockwise modes. Power: 500W Chuck capacity - 1 to 10 mm Drill Bits - Masonry, Metal, Wood	1	Equipment
Mechanical Tools	Drilling Workstation	Drill Press, Drill Holder and Rotary Tool, Compatible with Drilling machine provided	1	Equipment
Mechanical Tools	Spanner Set	12-piece combination Spanner Set Range - 4 mm to 30 mm	1	Equipment
Mechanical Tools	Vice Normal	Table top vice	1	Equipment
Mechanical Tools	Precision Screw Driver Set	6 Piece Precision Screw Driver Set Types: PH0, PH1, Flat head - 1.4mm, 2mm, 2.4mm, 3mm	2	Equipment
Mechanical Tools	Wrench	Adjustable Universal Wrench	2	Equipment
Mechanical Tools	Wire Strippers	Wire Stripper Cutter Plier With Spring -26x6x20 cm (LxWxH)	5	Equipment
Mechanical Tools	Screwdriver	40 pc Multi-purpose screwdriver set	3	Equipment
Mechanical Tools	Cordless Rotary Multitool Set	Cordless Rotary multitool with all cutting, grinding, polishing, engraving and drill bits. Speed: Adjustable up to 30000 RPM Battery Type: Li-ion Voltage/current range : 8-10V, 0-2 A	1	Equipment
Mechanical Tools	Air Blower	500 W or more. Variable speed blower	1	Equipment
Mechanical Tools	Drill Bit Set	High Quality 13 Pcs HSS Drill Bits Set for Wood, Iron, Aluminium, Plastic etc.	1	Equipment
Mechanical Tools	File set	6 pc file set Working length - 6 inch	1	Equipment
	Mini File set	6 pc mini file set Working length - 3 inch	1	Equipment
Mechanical Tools	Flexible Cutting Mat	A3 Size with Marked Pattern and Grids (18" X 12")	1	Equipment

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Mechanical Tools	Plastic Storage Drawer/ organizer	Number of Drawers: 60 or equivalent Drawer size (l*w*d) (inch) : 2*2*5	2	Equipment
Mechanical Tools	Pegboard	Peg board System to mount tools on wall with attachments. Size: 3ft*2ft	2	Equipment
Electric Tools	Hot glue gun	Works with standard 0.5- inch glue sticks. Temperature - 230 to 280 degree Celsius.	4	Equipment
Electric Tools	Digital Oscilloscope	Minimum Bandwidth: 50 Mhz. Minimum number of channels: 2 channels. Sample Rate: 1Gsa/s With inbuilt waveform function generator.	1	Equipment
Electric Tools	Soldering Kit	Variable Wattage of Soldering Iron: 15-30 watts/230 volts	4	Equipment
		Soldering Iron Temperature Range: 280°C to 450°C		
		De-Soldering Pump, Soldering Flux (Paste) 100 grams, DE-soldering Copper Braid (Solder Wick) - 1.5m*2mm		
		Compatible Soldering Tip - Bevel, Chisel, Conical - 5 each per kit.		
		Soldering Wire: 20/22 AWG soldering Wire with rosin core flux (100 Grams)		
Electric Tools	Adapters	DC power Adapter with 5V, 2A	10	Consumable
Electric Tools	Adapters	DC power Adapter with 12V, 2A	10	Consumable
Electric Tools	Electric Screw Driver Set	Multipurpose Electric screwdriver set. Accessories - Compatible bits Mode - Wireless Battery - Li-ion 3.6V or equivalent with charging dock	1	Equipment
Electric Tools	Dual Temperature Heat Gun	1800 W Dual Temperature Heat Gun	1	Equipment
Electric Tools	Soldering Helping hand	Specifications: Adjustable crocodile holding clamps/clip. Soldering iron holder. LED light. Magnifying lens.	4	Equipment

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Measurement Tools	Return measuring tape	Return measuring tape 5Mx19mm	2	Equipment
Measurement Tools	Stainless Steel Rule	Stainless Steel 12" / 150 mm Rule	5	Equipment
Measurement Tools	Digital Vernier Calliper	150 mm / 6" Digital Vernier Calliper	2	Equipment
Measurement Tools	Spirit Level	12" Spirit Level	1	Equipment
Measurement Tools	Digital Pen electric Tester	Voltage tester	1	Equipment
Measurement Tools	Digital Multi Meter	Digital Multi Meter Voltage Current Resistance-7 functions + 19 ranges to cover DC voltage 200mV to 1kV,	5	Equipment
		AC voltage 200 V - 750 V,		
		DC current 200 μ A - 10 A		
		Resistance 200 -2 M Ohm and Transistor & diode test.		
Biology Kit	DIY Paper Microscope	DIY Paper microscope. Magnification range - 100x to 2000x	5	Consumable
Astronomy Equipment	Telescope	All glass optical components	1	Equipment
		Altazimuth mount suitable for terrestrial and astronomical use		
		minimum 700 mm focal length		
Textile Equipment	Sewing Kit	Semi-Automatic Sewing machine	1	Equipment
		Straight stitch		
		Consumables - 2 set of assorted needles and 10-color spool set.		

4. Power Supply & Accessories and Safety Equipment

Category	Name	Description	Suggested Quantity	Type
Power Supply & accessories	Glue Sticks	11 mm x 200mm Hot Melt Glue Stick	100	Consumable
Power Supply & accessories	Nuts and Bolts and screws	Specs - M4X12MM M4X20MM M5X16MM M5X25MM M6X20MM	40	Consumable
Power Supply & accessories	Cable Tie	Small Cable Tie Pack - Pack of 100	10	Consumable
		Medium Cable Tie Pack - Pack of 100	10	Consumable
		Big Cable Tie Pack - Pack of 100	10	Consumable
Power Supply & accessories	Sand Paper	Grit Values - 80, 100, 120, 200, 300. 5 Nos of each	10	Consumable

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es				
Power Supply & accessories	Power Strip Adaptors	Standard Quality Extension with 5Amp safety fuse. 5 or more sockets in each extension. 5-meter length of each extension.	5	Consumable
Power Supply & accessories	Bulb Holders	Regular Hanging Bulb holder	10	Consumable
Power Supply & accessories	Electric Wires	Twisted Red black pair	20 meters	Consumable
Power Supply & accessories	USB TO DC jack cable	USB to DC jack cable for Battery bank	10	Consumable
Safety equipment	First-Aid Kit	Standard Medical First Aid kit in portable container.	2	Consumable
Safety equipment	Fire extinguisher (handy units)	Powder Type Fire Extinguisher 2KG	2	Consumable
Safety equipment	Safety goggles (with/without LED torch)	Polycarbonate Safety goggles Clear lens with no tint	30	Consumable
Safety equipment	Safety Gloves Pairs	Latex Coating Gloves (Medium Size)	10	Consumable
Safety equipment	Safety Mask	Filtering efficiency ranging 80 percent when tested against 0.3-micron sodium chloride particle	20	Consumable

Technical Specification Core i3 Laptop			
Sl. No.	Parameter	Description	Compliance (Yes/No)
1	PROCESSOR	Core i3 (Intel/AMD) With 11th Generation	
2	FLASH MEMORY (SD SLOT)	Card Reader slot for SD/MICRO SD card.	
3	RAM	8GB DDR4 or Higher, Expandable to 16 GB	
4	DISPLAY	14.0" HD display with 1366*768 resolution or Better	
5	GRAPHICS	Integrated Graphics	
6	AUDIO	Built-in stereo speakers	
7	BLUETOOTH	5.0 or higher	
8	WEBCAM	Integrated HD Webcam	
9	HARD DISK	1 TB HDD	
10	ETHERNET CONTROLLERS	Integrated Ethernet 10/100/1000 NIC	

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11	WIRELESS DEVICE & BT	Intel 802.11 Wi-Fi	
12	INTERFACES	1 RJ-45, Min. 2 x USB 3.0 or Higher, 1 USB "C" Port, Audio combo port, AC adapter Jack, HDMI port, SD Card reader Port.	
13	KEYBOARD & TOUCH PAD DEVICE	Spill resistance keyboard with touch pad multi gesture support	
14	SECURITY	BIOS password, Hardware TPM 2.0	
15	BATTERY BACKUP	3 Cell battery with 48Whr or more capacity	
16	CARRY CASE	OEM carry Bag or Back pack	
17	OPERATING SYSTEM (OS)	Windows 11 Home	
18	WARRANTY	1 Year Warranty (Laptop & Battery)	
19	CERTIFICATION	UL/FCC/CE/RoHS, Energy Star 8.0 or higher	

Technical Specification Projector			
Sl. No.	Parameter	Description	Compliance (Yes/No)
1	Brightness	3000 ANSI Lumens or Higher	
2	Native resolution	XGA(1024*768)	
3	Aspect Ration	4: 3 (Native)	
4	Contrast Ratio	20000: 1	
5	Port	HDMI/VGA	
6	Wireless	Yes	
7	Lamp life	3000 Hrs or Better	
8	Warranty	1 Year Warranty	

Annexure-4: Pre-Bid Queries Format
(To be filled by the Bidder)

Name of the Company/Firm:

Bidding document Fee Receipt No _____

Person(s) Representing the Company/ Firm:

Name of the Person	Designation	Email-ID(s)	Tel. Nos. & Fax Nos.

Company/Firm Contacts:

Contact Person(s)	Address for Correspondence	Email-ID(s)	Tel. Nos. & Fax Nos.

**Query/Clarification Sought:
(MS-Excel Sheet Format)**

Sl.No.	Bidder Name	RFP Chapter No.	RFP Clause No.	RFP Page No.	Clause Details as per RFP	Query/Clarification/ Suggestion

Note: Queries must be strictly submitted only in the prescribed format (.XLS/ .XLSX/ .PDF). Queries not submitted in the prescribed format will not be considered/ responded at all by the tendering authority. Also, kindly attach the coloured scanned copy of the receipt towards the submission of the bid document fee. Also, the bidders having purchased the tender/ RFP document will only be responded to i.e. their pre-bid queries will be entertained and responded. Also, the softcopy of the queries (**only in MS-Excel Sheet format**) should also be submitted through e-mail at gm.ocac@odisha.gov.in , jayashree.mishra@odisha.gov.in & Chandan.pradhan@semt.gov.in

Annexure-5: Bidder's Authorization Certificate
(To be filled by the Bidder)

To,

The General Manager (Admn.)
Odisha Computer Application Centre (OCAC)
OCAC Building, Plot No.-N-1/7-D, Acharya Vihar Square, RRL Post
Office, Bhubaneswar-751013 (INDIA)

I/ We {Name/ Designation} hereby declare/ certify that {Name/ Designation} is hereby authorized to sign relevant documents on behalf of the company/ firm in dealing with RFP reference No. OCAC-SEGP-INFRA-0019-2022-22075, Dated 22-11-2022. He/ She is also authorized to attend meetings & submit technical & commercial information/ clarifications as may be required by you in the course of processing the Bid. For the purpose of validation, his/ her verified signatures are as under.

Thanking you,

Name of the Bidder:

Verified Signature

Authorized Signatory: - Seal of

the Organization: - Date:

Place:

Annexure-6: Bank Guarantee Format

(To be signed by bank and submitted by Bidder)

RFP REF: OCAC-SEGP-INFRA-0019-2022-22075, Dated 22-11-2022

To,

The General Manager (Admn.)

Odisha Computer Application Centre (OCAC)

OCAC Building, Plot No.-N-1/7-D, Acharya Vihar Square, RRL Post

Office, Bhubaneswar-751013 (INDIA)

Whereas <<Name of the bidder>> (hereinafter called 'the Bidder') has submitted the bid for Submission of RFP Ref. No. OCAC-SEGP-INFRA-0019-2022-22075, Dated 22-11-2022 for Selection of Agency for Supply, Installation & Commissioning of 363 numbers of Atal Tinkering LABs (hereinafter called "the Bid") to OCAC Know all Men by these presents that we <<Name of the Bidder>> having our office at <<Address>> (hereinafter called "the Bank") are bound unto the <<Nodal Agency>> (hereinafter called "the Purchaser") in the sum of Rs. <<Amount in figures>> (Rupees <<Amount in words>> only) for which payment well and truly to be made to the said Purchaser, the Bank binds itself, its successors and assigns by these presents. Sealed with the Common Seal of the said Bank this <<Date>>

The conditions of this obligation are:

1. If the Bidder having its bid withdrawn during the period of bid validity specified by the Bidder on the Bid Form; or
2. If the Bidder, having been notified of the acceptance of its bid by the Purchaser during the period of validity of bid
 - a) Withdraws his participation from the bid during the period of validity of bid document;Or
 - b) Fails or refuses to participate in the subsequent RFP process after having been short listed;

We undertake to pay to the Purchaser up to the above amount upon receipt of its first written demand, without the Purchaser having to substantiate its demand, provided that in its demand the Purchaser will note that the amount claimed by it is due

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to it owing to the RFP occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to <<insert date>> and including <<extra time over and above mandated in the RFP>> from the last date of submission and any demand in respect thereof should reach the Bank not later than the above date.

NOTWITHSTANDING ANYTHING CONTAINED HEREIN:

- I. Our liability under this Bank Guarantee shall not exceed Rs. <<Amount in figures>> (Rupees <<Amount in words>> only)
- II. This Bank Guarantee shall be valid up to <<insert date>>)
- III. It is condition of our liability for payment of the guaranteed amount or any part thereof arising under this Bank Guarantee that we receive a valid written claim or demand for payment under this Bank Guarantee on or before <<***insert date***>>) failing which our liability under the guarantee will automatically cease.

(Authorized Signatory of the Bank) Seal:

Date:

Annexure-7: RFP Form

(To be filled by the Bidder)

Name of the Tendering Authority	The General Manager (Admin.)
Address	Odisha Computer Application Centre (OCAC) OCAC Building, Plot No.-N-1/7-D, Acharya Vihar Square, RRL Post Office, Bhubaneswar-751013 (INDIA)
Telephone	
Tele Fax	
Email	

2) Firm Details:

Name of Firm				
Name of CMD of the firm with email id, contact number				
Name of Contact Person with Designation				
Registered Office Address				
Address of the Firm				
Year of Establishment				
Type of Firm Put Tick (√) mark	Public Limited	Private Limited	Partnership	Proprietary
Telephone Number(s)				
Email Address/ Web Site	Email:		Web-Site:	
Fax No.				
Mobile Number	Mobile:			
Certification/Accreditation/Affiliation, if Any				

3)The requisite tender fee amounting to Rs. _____ /- (Rupees <in words>) has been deposited vide DD/BC/receipt no. _____ Dated _____.

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4) We agree to abide by all the terms and conditions mentioned in this form issued by the Empanelment Authority and also the further conditions of the said notice given in the attached sheets (all the pages of which have been signed by us in token of acceptance of the terms mentioned therein along with stamp of the firm).

Date:

Name & Seal of the firm: _____

Authorized Signatory: _____

Annexure-8: Covering Letter - Technical Bid

(To be filled by the bidder and signed in Company Letter Head)

To

The General Manager (Admin) Odisha
Computer Application Centre
(Technical Directorate of I.T. **Dep't**, Govt. of Odisha)
N-1/7-D, Acharya Vihar, P.O. - RRL, Bhubaneswar -
751013

Subject: Technical Proposal for Selection of Agency for Supply, Installation & Commissioning of 363 numbers of Atal Tinkering LABs, RFP Ref.No- OCAC-SEGP-INFRA-0019-2022-22075, Dated 22-11-2022.

Sir/Madam,

We, the undersigned, offer to provide our services against your RFP enquiry no. **<Insert RFP no>** dated **<insert date>**. We are hereby submitting our Proposal, which includes this Technical Bid sealed in the envelope.

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

We agree to abide by all the terms and conditions of the tender document. We would hold the terms of our bid valid for 180 days as stipulated in the RFP document.

We agree that you are not bound to accept the lowest or any bid response you may receive. We also agree that you reserve the right in absolute sense to reject all or any of the products / services specified in the bid response without assigning any reason whatsoever.

It is hereby confirmed that I/We are entitled to act on behalf of our corporation/company /firm/organization and empowered to sign this document as well as such other documents which may be required in this connection.

Yours sincerely,

Authorized Signature [***In full and initials***]: _____

Name and Title of Signatory: _____

Name of Firm Address: _____

Annexure-9: Manufacturer's Authorization Form (MAF)

Letter No. _____

To

The General Manager (Admin.)
Odisha Computer Application Centre
Plot No. - N-1/7-D, Acharya Vihar P.O. - RRL,
Bhubaneswar – 751013

Sub: OEM Authorization Letter RFP Ref No: OCAC-SEGP-INFRA-0019-2022-22075

Dear Sir

We, who are established and reputable _____having factories / development facilities at (address of factory / facility) do hereby authorize M/s (Name and address of Agent) to submit a Bid, and accept the Purchase Order against the above Bid Invitation. We hereby extend our full guarantee and warranty for the Solution, Products and services offered by the above firm against this Bid Invitation. We further undertake that we will support the supplier will all related spares and maintenance during the entire contract period.

We duly authorize the said firm to act on our behalf in fulfilling all installations, Technical support and maintenance obligations required by the Project.

Yours faithfully,

(Name) Seal

Note: This letter of authority should be on the letterhead of the OEM and should be signed by a person competent and having the power of attorney to bind the manufacturer.

Annexure-10: Financial Bid Cover Letter and Format

(To be filled by the bidder and signed in Company Letter Head)

To

The General Manager (Admin)
Odisha Computer Application Centre
(Technical Directorate of I.T. Dep^t, Govt. of Odisha) N-
1/7-D, Acharya Vihar P.O. - RRL,
Bhubaneswar – 751013

Date:

Subject: Submission of the financial bid for Selection of Agency for Supply, Installation & Commissioning of 363 numbers of Atal Tinkering LABs.

Dear Sir/Madam,

We, the undersigned, offer to Supply, Installation & Commissioning of 363 numbers of Atal Tinkering LABs RFP. Ref. No. OCAC-SEGP-INFRA-0019-2022-22075, Dated 22-11-2022 and our Proposal (Pre-qualification, Technical and Financial Proposals). Our attached Financial Proposal is for the sum of <<**Amount in words and figures**>>inclusive of taxes and duties.

1. Price and Validity

All the prices mentioned in our RFP are in accordance with the terms as specified in the RFP documents. We declare that our Bid Price is for the entire scope of the work as specified in the appropriate section in the RFP. All the prices and other terms and conditions of this Bid are valid minimum for a period 180 days from the date of opening of the Bid. Subject to further extended period as mutually agreed upon.

We hereby confirm that our prices do not include any taxes and duties.

We understand that the actual payment would be made as per the existing tax rates during the time of payment.

2. Unit Rates

We have indicated in the relevant forms enclosed, the unit rates for the purpose of on account of payment as well as for price adjustment in case of any increase to / decrease from the scope of work under the contract.

3. Qualifying Data

We confirm having submitted the information as required by you in your Instruction to Bidders. In case you require any other further information/documentary proof in Odisha

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Computer Application Centre (OCAC) this regard before evaluation of our bid, we agree to furnish the same in time to your satisfaction.

4. Bid Price

We declare that our Bid Price is for the entire scope of the work as specified in the RFP. These prices are indicated at Price Bid attached with our bid as part of the Bid. We understand you are not bound to accept any tender you receive.

We hereby declare that our bid is made in good faith, without collusion or fraud and the information contained in the bid is true and correct to the best of our knowledge and belief.

We understand that our bid is binding on us and that you are not bound to accept a bid you receive.

Thanking you,

Yours sincerely,

Authorized Signature:

Name and Title of Signatory:

Name of Firm:

Address:

Annexure:11 Bid Security Declaration

To,

The General Manager (Admn)
Odisha Computer Application Centre
Plot No. - N-1/7-D, Acharya Vihar
P.O.- RRL, Bhubaneswar - 751013
EPBX: 0674-2567280/2567064/2567295
Fax: +91-0674-2567842

Whereas << name of the bidder >> (hereinafter called the Bidder) has submitted the bid for Submission of RFP # << RFP Number >> dated << insert date >> for << name of the assignment >> (hereinafter called "the Bid") to Odisha Computer Application Centre.

Know all Men by these presents that we <<>> having our office at << Address >> (hereinafter called "the Bank") are hereby submitting the Bid Security Declaration letter to the << Nodal Agency >> (hereinafter called "the Purchaser") which binds our organization, its successors and assigns by these presents under the following obligations.

The conditions of this obligation are:

1. Fails to submit PBG.
2. Withdraws his participation from the bid during the period of validity of bid document;
or
3. Modify the bid during period of bid validity.

We undertake to accept the suspension for a specific period as decided by the Purchaser due to it owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

(Authorized Signatory of the Bidder)

Seal:

Date:

Annexure-12: Commercial Bid - Item Wise Price Schedule for One Atal Tinkering LAB

SL. No.	Item	Quantity (a)	Unit Cost (in Rs.) (b)	Taxes (in Rs.) (c)	Total Cost (in Rs.) (d = b + c)	Total Amount (in Rs.) (e = a x d)
1.	Atal Tinkering LAB Equipment (Sl. No. 1 to 4)	01				
2.	Laptop (Core i3)	03				
3.	Projector	01				
4.	Projector Screen/Mat finish White board	01				
5.	20W Speaker	01				
6.	Projectors hanging kit	01				
7.	Printer (B/W)	01				
8.	Steel Almira	01				
9.	2 KG Portable Fire Extinguisher	02				
10.	Site Preparation in ATL LAB i.e. Electrical fittings, Lan fittings, Paintings, Whitewashing etc.	01				
11.	One Time Delivery & Installation Cost	01				
Total Cost Including GST @ One Atal Tinkering LAB For 3 Years						
[A] Total Cost Including GST for 363 Nos of Atal Tinkering LABs For 3 Years						

RFP for Selection of Agency for Supply, Installation & Commissioning of 363 numbers of Atal Tinkering LABs for School & Mass Education Department (S&ME)

Manpower Cost For 363 Nos of Atal Tinkering LABs						
SL. No.	Item	Quantity (a)	Unit Cost (in Rs.) (b)	Taxes (in Rs.) (c)	Total Cost (in Rs.) (d = b + c)	Total Amount (in Rs.) (e = a x d)
1.	IT Manager	01				
2.	Central Helpdesk Support/ IT Coordinators	02				
3.	Resident Field Engineer at least 1 for each 60 Schools	06				
[B] Total Manpower Cost Including GST for 363 Nos of Atal Tinkering LABs For 3 Years						
Grand Total Cost i.e. [A] + [B] Including GST for 363 Nos of Atal Tinkering LABs For 3 Years						

Authorized Signatory with Official Seal

NOTE: -

- All the above price would be in INR only.
- The above price would include Comprehensive OEM Warranty Support for a period of 2 years from the date of FAT.
- The bidder has to compulsorily quote for all items mentioned in the Commercial-bid Tables. In case bidder fails to quote for any of this stage, the bid would be summarily rejected.
- **No Component of Financial bid should have "ZERO" value.**
- Above is indicative, however the quantity may increase or decrease at the time of placing the purchase order as per actual.
- The Tax rates will be mentioned as per standards.

Annexure-13: Financial Capabilities

(To be filled by the Bidder)

Turnover (Rs. In Crores)		
2019-2020	2020-2021	2021-2022
Net worth (Rs. In Crore)		
2019-2020	2020-2021	2021-2022

Annexure-14: Self-Declaration
(Non-blacklisted in company Letter Head)

To

The General Manager (Admin) Odisha
Computer Application Centre
(Technical Directorate of I.T. Dep't, Govt. of Odisha) N-
1/7-D, Acharya Vihar P.O. - RRL,
Bhubaneswar - 751013

Sir

In response to the RFP Ref. No: OCAC-SEGP-INFRA-0019-2022-22075, Dated 22-11-2022,
**for RFP titled "Selection of Agency for Supply, Installation & Commissioning of 363 numbers
of Atal Tinkering LABs", as an owner/ partner/ Director of (organization name) I/ We hereby**
declare that presently our Company/ firm is not under declaration of ineligible for corrupt &
fraudulent practices, blacklisted either indefinitely or for a particular period of time, or had
work withdrawn, by any State/ Central government/ PSU.

I/We further declare that there is no past / ongoing legal trial in name of any of the Owner
/ Partner / Director of the bidding company as on the tender submission date.

If this declaration is found to be incorrect then without prejudice to any other action that
may be taken, my/ our security may be forfeited in full and the tender if any to the extent
accepted may be cancelled.

Thanking you,

Name of the Bidder:

Authorized Signatory:

Signature:

Seal:

Date: Place:

Annexure-15: Project Citation Format

(To be filled by the Bidder)

Relevant IT Project Experience	
General Information	
Name of the project	
Client for which the project was executed	
Name and contact details of the client	
Project Details	
Description of the project	
Scope of services	
Other Details	
Total cost of the project	
Duration of the project (no. of months, start date, completion date, current status)	

Annexure-16: Project References for Experience of Bidder

(Indicative Format, to be filled by Bidder & submitted in Company Letter Head)

Sl. No.	Name of Customer:	Contact person Name	Phone, fax and e- mail of customer	Project Location:	Name of the Project with Brief	Year				
						2017-18	2018-19	2019-20	2020-21	2021-22
1										
2										
3										

Note: Please attach a copy of the work order/ completion certificate/ purchase order/ letter from the customer for each project reference.

Annexure-17: Details of documents to be submitted by the Bidder

Sl. No.	Documents to be submitted		
	Pre-qualification bid	Technical Bid	Financial Bid
1	Bidder's Authorization Certificate (Annexure-5)	Technical Bid Covering Letter (Annexure-8)	Financial Bid Cover letter and Format (Annexure-11)
2	Particulars of the Bidder (Annexure-1)	Detailed Bill of material as per components indicated in Bill of Quantity. (Annexure-2)	Financial Bid (Annexure-12)
3	a. Valid copy of Certificate of incorporation and Registration Certificates b. Copy of GST registration. c. Copies of relevant Certificates of Registration, Income Tax/ PAN Number from the respective Government Department.	Technical Specification Compliance Documents with all supporting details (Annexure-3)	
4	Audited Balance Sheets		
5	CA Certificate with CA's Registration Number & Seal (Annexure-12)		
6	Valid Copy of ISO Certificates		
7	Relevant Documents supporting Office Addresses /Undertaking. (Local presence)		

Request for Proposal (RFP) for Selection of Agency for Supply, Installation & Commissioning

8	RFP Form (Annexure- 7) of 363 numbers of Atal Tinkering LABs		
9	MAF (Annexure- 9)		
10	Self-Declaration (Annexure- 13)		
11	Project Citation Format (Annexure- 14)		
12	Project References (Annexure- 15)		
13	RFP document fee as mentioned in the Eligibility/Pre-qualification Criteria of the RFP		

District wise distribution of Schools

Sl. No.	District	Nos. of ATL
1	ANGUL	8
2	BALASORE	25
3	BARAGARH	2
4	BHADRAK	19
5	BOLANGIR	9
6	BOUDH	5
7	CUTTACK	20
8	DEOGARH	1
9	DHENKANAL	7
10	GAJAPATI	4
11	GANJAM	51
12	JAGATSINGHPUR	15
13	JAJPUR	17
14	JHARSUGUDA	2
15	KALAHANDI	23
16	KANDHAMAL	4
17	KENDRAPARA	11
18	KEONJHAR	12
19	KHURDHA	28
20	KORAPUT	14
21	MALKANGIRI	4
22	MAYURBHANJ	15
23	NABARANGPUR	11
24	NAYAGARH	9
25	NUAPADA	6
26	PURI	8
27	RAYAGADA	6
28	SAMBALPUR	5
29	SONEPUR	3
30	SUNDERGARH	19
	Total	363