

# BID DOCUMENT

## **SELECTION OF SYSTEM INTEGRATOR FOR “SUPPLY, INSTALLATION AND COMMISSIONING OF ATL LABS IN GOVERNMENT SCHOOLS”**

TENDER NO.: EdCIL/DES/ATL/2025/007

Dated: 18.12.2025

Part 1 – Technical Bid



**CIN No. U74899DL1981GOI011882**

EdCIL (India) Limited  
A Govt. of India Category-I Mini Ratna CPSE  
EdCIL House, Plot No. 18A, Sector 16A,  
Noida-201301 (U.P.) India  
Tel: 0120 – 2512001-006, FAX: 0120-2515372  
Reg. Office: 7th Floor, Amba Deep Building,  
14 KG Marg, New Delhi-110001

## DISCLAIMER

The information contained in this Request for Proposal document (the "RFP") or subsequently provided to Bidder(s), whether verbally or in documentary or any other form by or on behalf of the EdCIL (India) Limited or any of its employees or advisors, is provided to Bidder(s) on the terms and conditions set out in this RFP and such other terms and conditions subject to which such information is provided.

This RFP is not an Agreement and is neither an offer nor invitation by EdCIL to the prospective Bidders or any other person. The purpose of this RFP is to provide interested parties with information that may be useful to them in making their financial offers (BIDs) pursuant to this RFP. This RFP includes statements, which reflect various assumptions and assessments arrived at by EdCIL in relation to the Project. Such assumptions, assessments and statements do not purport to contain all the information that each Bidder may require. This RFP may not be appropriate for all persons, and it is not possible for the EdCIL, its employees or advisors to consider the investment objectives, financial situation and particular needs of each party who reads or uses this RFP. The assumptions, assessments, statements and information contained in the Bidding Documents may not be complete, accurate, adequate or correct. Each Bidder should, therefore, conduct its own investigations and analysis and should check the accuracy, adequacy, correctness, reliability and completeness of the assumptions, assessments, statements and information contained in this RFP and obtain independent advice from appropriate sources.

Information provided in this RFP 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. The EdCIL accepts no responsibility for the accuracy or otherwise for any interpretation or opinion on law expressed herein.

EdCIL, its employees and advisors make no representation or warranty and shall have no liability to any person, including any Bidder under any law, statute, rules or regulations or tort, principles of restitution or unjust enrichment or otherwise for any loss, damages, cost or expense which may arise from or be incurred or suffered on account of anything contained in this RFP or otherwise, including the accuracy, adequacy, correctness, completeness or reliability of the RFP and any assessment, assumption, statement or information contained therein or deemed to form part of this RFP or arising in any way for participation in this BID Stage.

EdCIL 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 this RFP. EdCIL may in its absolute discretion, but without being under any obligation to do so, update, amend or supplement the information, assessment or assumptions contained in this RFP. The issue of this RFP does not imply that EdCIL is bound to select a Bidder or to appoint the Selected Bidder, as the case may be, for the

Project and EdCIL 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, expenses associated with any demonstrations or presentations which may be required by EdCIL, site visits, investigations, studies or any other costs incurred in connection with or relating to its BID. All such costs and expenses will remain with the Bidder and EdCIL 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 Bidding Process.

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**Notice Inviting Tender**  
(e-Tendering mode)

**EdCIL (INDIA) LIMITED**  
(A Govt. of India Mini Ratna CATEOGRY-I CPSE)  
SECTOR 16A, NOIDA

Date: 18.12.2025

N.I.T. No.: EdCIL/DES/ATL/2025/007

<b>Name of work</b>	Selection of System Integrator for “ <b>Supply, Installation and Commissioning of ATL Labs In Government Schools</b> ”
<b>The Currency in which payment shall be made</b>	Indian Rupees (INR)
<b>Date of Issue/Publishing</b>	18.12.2025
<b>Pre-Bid Submission</b>	22.12.2025 till 17:00 Hrs
<b>Last Date and Time for receipts of Bids</b>	02.01.2026 till 15:30 Hrs In case a Holiday is declared on the day of the event, the same will be held on the next working day at the same time & venue.
<b>Date and Time of Opening of Technical Bids</b>	02.01.2026 at 16:00 Hrs
<b>Earnest Money Deposit</b>	Rs. 7,20,000/- in form of Bank Guarantee / Demand Draft. Scanned copy to be uploaded with tender documents and original BG/ DD has to be submitted. In case EMD is submitted in the form of BG, the BG should be valid till 45 days after the bid validity date, as per Annexure-X . The list of bank from where the EMD is acceptable is placed at annexure XV.
<b>No. of Covers</b>	02 (Two Packets)
<b>Bid Validity days</b>	180 days (From last date of opening of tender)
<b>Performance Bank Guarantee (PBG)</b>	3% of the total work value of the successful bidder. PBG is required to be submitted within 14 days from the date of issue of LOA as per Annexure-XI
<b>Email Address</b>	<a href="mailto:destenders@edcil.co.in">destenders@edcil.co.in</a>
<b>Corporate Office</b>	EdCIL House, 18-A, Sector 16A, Film City, Noida, Uttar Pradesh 201301

**CHAPTER- I****Offline and Online Bid Submission Documents****1.1 Offline Submissions:**

The bidder is requested to submit the hardcopy of the below mentioned documents in a Sealed Envelope and the hardware equipments to the following address before the start of Public Online Tender Opening Event.

**Address:** Plot No. 18A, EdCIL House, Sector 16A, Film city, Noida-201301

The envelope shall bear name (the project name), the tender number and the words 'DO NOT OPEN BEFORE' (due date & time).

- I. Original copy of the EMD Security in the form of Demand Draft/BG.
- II. Original Power of Attorney on a non-judicial stamp paper or board resolution.
- III. Original copy of the Non-Blacklisting certificate

Note: The Bidder should also upload the scanned copies of all the above-mentioned original documents as Bid-Annexure during Online Bid-Submission.

**1.2 Online Submissions:**

The Online bids (complete in all respect) must be uploaded online as explained below: -

S. No.	Documents	Content	File Types
1.	Technical Bid	Technical Compliance sheet as per Annexure-I	.PDF
2.		Organization Declaration Sheet as per Annexure-II	.PDF
3.		Letter of Undertaking as per Annexure-III	.PDF
4.		Undertaking of Non-Blacklisting as per Annexure-IV	.PDF
5.		Financial Statement as per Annexure-V	.PDF
6.		List of Orders as per Annexure VI	.PDF
7.		Manufacturer Authorization Form as per Annexure VII	.PDF
8.		Power of Attorney as per Annexure VIII	.PDF
9.		Letter of Bid Submission as per Annexure IX	.PDF
10.		Earnest Money Deposit as per Annexure X	.PDF
11.		Performa pre contract integrity pact as per Annexure XII	.PDF
12.		Equipment Specification Compliance as per Annexure-XVI	.PDF

13.		Performa for declaration on proceedings under insolvency and bankruptcy code, 2016 Annexure-XVIII	.PDF
14.	Financial Bid	Financial Bid Submission Form along with form 1 and form 2.	.PDF

**Note:** Technical Bid should not contain any financial terms and pricing.

**CHAPTER-II****Term of Reference & Definitions**

<b>Term</b>	<b>Definition</b>
Supplier	Successful/Selected bidder for “Supply, Installation and Commissioning of ATL Labs In Government Schools”.
Authorized Signatory	The bidder’s representative (explicitly, implicitly, or through conduct) with the powers to commit the authorizing organization to a binding agreement. Also called signing officer/authority having the Power of Attorney from the Competent authority of the respective Bidding firm.
Bid	“Bid” means the response to this document presented in Two Packets, Technical Cum Commercial Bid and Financial Bid, which are supplied with necessary documents and forms as given in Annexure, complete in all respect adhering to the instructions and spirit of this document.
Tenderer / Bidder	“Tenderer” or “Bidder” means any individual/proprietor/ partnership firm/ agency/ company/ responding to Request for Proposal and who submits a Bid.
Contract	“The Contract” means the agreement entered into between EdCIL and the selected bidder(s) in terms of clauses mentioned
Day	“Day” means a working day as per rules of EdCIL.
EMD	Earnest Money Deposit
D.D	Demand Draft
EdCIL	EdCIL (India) Limited, Noida (A Mini Ratna Category -I CPSE)
TC	Tender Committee
PBG	Performance Bank Guarantee
Security Deposit (SD)	Amount of the Order Value deposited by the Bidder and retained till the successful completion of the project (as long as the bidder fulfills the contractual agreement).
Services	“Services” means the services to be delivered by the successful bidder and as required to run the project successfully as per the Contract.
RFP/Tender	“ <b>RFP</b> ”/Tender means the Request for Proposals
Goods and Materials	“Goods and Materials” shall mean the articles, materials, equipment, IT Equipment, supplier’s drawings, data and other property and all services- including design, delivery, installation, inspection and maintenance support specified or required to complete the order and incidental thereto.
Order	“Order” shall mean the Purchase Order/Work order and its attachments and exhibits.
Consignee	“Consignee” shall mean EdCIL (India) Limited/ end client.
EdCIL/ Purchaser	“EdCIL/ Purchaser” shall mean EdCIL (India) Limited.

### CHAPTER-III

#### Instructions for e-Tendering

##### Instructions for Online Bid Submission:

- E-tendering is new technology for conducting public procurement in a transparent and secured manner. As per Government of India's directives, EdCIL (India) Limited has adopted E-tendering.
- For conducting electronic tendering, EdCIL (India) Limited has decided to use Electronic tender portal link available with detailed information on e-tendering process. This portal built using Electronic tender's software is referred to as <http://www.tenderwizard.com/EDCIL>.
- The bidders are required to submit soft copies of their bids electronically on <http://www.tenderwizard.com/EDCIL> e-tendering website, using valid Digital Signature Certificates. The instructions given below are meant to assist the bidders in registering on the Tender Wizard E-Tendering Portal, prepare their bids in accordance with the requirements and submitting their bids online on the Tender Wizard E-Tendering Portal.
- The scope of work to be tendered is available in the complete bid documents which can be viewed /downloaded from Tender Wizard E-Tendering Portal of <http://www.tenderwizard.com/EDCIL>. Both Technical Bid and Financial Bid will be submitted concurrently duly digitally signed in the website <http://www.tenderwizard.com/EDCIL>. No claim shall be entertained on account of disruptions of internet service being used by bidders. Bidders are advised to upload their bids well in advance to avoid last minute technical snags.
- All Corrigendum/Amendment/Corrections, if any, will be published on the website <http://www.tenderwizard.com/EDCIL> as well as on EdCIL's website.
- It is mandatory for all the applicants to have class-III Digital Signature Certificate (in the name of person who will sign the bid document) from any of the licensed certifying agency (Bidders can see the list of licensed Certifying Agencies from the link [www.cca.gov.in](http://www.cca.gov.in)) to participate in e-Procurement of EDCIL.
- It is mandatory for the bidders to get their firm/company registered with e-procurement portal of EDCIL, i.e. [www.tenderwizard.com/EDCIL](http://www.tenderwizard.com/EDCIL) to have user ID & password by submitting a non-refundable annual registration charges as follows:

1	Registration charges for 1 year	Rs. 2000/-
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(exclusive of taxes, levies, etc.) which can be paid online using the e-payment gateway to KEONICS through the portal address mentioned above. The registration so obtained by the prospective bidder shall be valid for one year from the date of its issue and shall be subsequently renewed.

- Participant shall safely keep their User ID and password, which will be issued by the service provider i.e. KEONICS Ltd. upon registration, and which is necessary for e-tendering.

- Bidders are advised to change the password immediately on receipt of activation mail.
- Bidders shall not disclose their User ID as well as password and other material information relating to the e-tendering to any one and safeguard its secrecy.
- Submit your tender well in advance by relevant documents along with copy of EMD of tender submission deadline on Tender Wizard E-Tendering Portal <http://www.tenderwizard.com/EDCIL>, as there could be last minute problems due to internet timeout, breakdown, etc.
- Tenders should be submitted only through Tender Wizard E-Tendering Portal and obtain the Tender Acknowledgement copy as a proof of successful submission.
- Vendors are requested to contact at Tender wizard Helpdesk for any information regarding E-tendering / training.
  - For online registration, intended bidders may write us at [harishkumar.kb@etenderwizard.com](mailto:harishkumar.kb@etenderwizard.com) or contact no. 080-40482100/9964074577/9650520101.
  - For any further query related to Training Session, Tender Uploading/downloading or any other query related to tender please contact Tender wizard Helpdesk.
  - Telephone: 080-40482100/9650520101/9964074577 or write us mail on EmailId:- [harishkumar.kb@etenderwizard.com](mailto:harishkumar.kb@etenderwizard.com), [ratana.thakur@etenderwizard.com](mailto:ratana.thakur@etenderwizard.com), [varun.b@etenderwizard.com](mailto:varun.b@etenderwizard.com).

### **PREPARATION OF BIDS**

- Bidder should take into account any corrigendum/addendum published on the portal before submitting their bids.
- Please go through the tender advertisement and the tender document carefully to understand the documents required to be submitted as part of the bid. Please note the number of covers in which the bid documents have to be submitted, the number of documents-including the names and content of each of the document that need to be submitted. Any deviations from these may lead to rejection of the bid.
- 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 format. Bid documents may be scanned with 100dpi with black and white option.

### **SUBMISSION OF BIDS**

- Bidder should log into the site well in advance for bid submission and complete all formalities of registration (at least two days in advance of the closing date) so that he/she upload the bid in time i.e. on or before the bid submission time. Bidder will be sole responsible for any delay in uploading of bid within the stipulated time.
- The bidder has to digitally sign and upload the required bid documents one by one as indicated in the tender document.

- Bidder has to pay EMD as applicable through demand draft/BG as per tender condition in favour of “**EdCIL (India) Ltd**” payable at **Noida** and enter details of the instruments. Original copies of demand draft/BG for EMD are required to be submitted.
- A standard Financial Bid form has been provided with the tender document to be filled by all the bidders. 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 financial bid format is found to be modified by the bidder, the bid will be rejected.
- The server time 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.
- Upon the successful and timely submission of bids, the portal will give a successful bid submission message & a bid summary will be displayed with the bid no. and the date & time of submission of the bid with all other relevant details.

### **ASSISTANCE TO BIDDERS**

Any queries relating to the tender document and the terms and conditions contained therein should be addressed to the Tender Inviting Authority. For any other tender related queries bidders are requested to contact on below given numbers/email.

Telephone/ Mobile/ E-mail ID	<p>Vendors Training Program: Vendors are requested to contact at Tender wizard Helpdesk Office for any information regarding E-tendering / training.</p> <p>a) For online registration, intended bidders may write us at <a href="mailto:harishkumar.kb@etenderwizard.com">harishkumar.kb@etenderwizard.com</a> or contact no. 080-40482100/9964074577/9650520101.</p> <p>b) For any further query related to Training Session, Tender Uploading/downloading or any other query related to tender please contact Tender wizard Helpdesk.</p> <p>Telephone: 080-40482100/9650520101/9964074577 or write us mail on Email:Id:- <a href="mailto:harishkumar.kb@etenderwizard.com">harishkumar.kb@etenderwizard.com</a>, <a href="mailto:ratan.thakur@etenderwizard.com">ratan.thakur@etenderwizard.com</a>, <a href="mailto:varun.b@etenderwizard.com">varun.b@etenderwizard.com</a> &amp; cc to: <a href="mailto:destenders@edcil.co.in">destenders@edcil.co.in</a></p>
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### **Offline Submissions: (AS PER TENDER REQUIREMENT)**

The bidder is requested to submit documents as per tender requirement.

### **MINIMUM REQUIREMENTS AT BIDDER'S END**

- Computer System having configuration with minimum Windows 7 or above, and Broadband connectivity
- Digital Certificate(s)

## CHAPTER-IV

### INSTRUCTION TO BIDDERS

#### **4.1 Due date:**

The tender has to be submitted before the due date and time. The offers received after the due date and time will not be considered.

#### **4.2 Preparation of Bids:**

The offer/ bid shall be submitted in two bid systems (i.e.) Technical Bid and Financial Bid. The technical bid shall consist of all technical details along with commercial terms and conditions. Financial bid shall indicate component wise price for all the mentioned component in the financial bid in the given PDF format.

#### **4.3 Language of Proposal:**

The proposal prepared by the firm and all correspondence and documents relating to the RFP exchanged by the bidder and the Client, shall be written in the English language, provided that any printed literature furnished by the firm may be written in another language so long as accompanied by an English translation in which case, for purposes of interpretation of the bid, the English translation shall govern.

#### **4.4 Cost of Bidding:**

The bidder shall bear all costs associated with the preparation and submission of its bid, including cost of presentation for the purposes of clarification of the bid, if so desired by the client and client will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

The firm is expected to carefully examine all instructions, forms, terms and specifications in the bid document. Failure to furnish all information required in the bid document or submission of a bid not substantially responsive to the bid document in every respect will be at the firm's risk and may result in the rejection of the bid.

#### **4.5 EMD:**

The Bidder should submit EMD through Demand Draft drawn in favor of "EdCIL (India) Limited" payable at NOIDA. The Bid sent without EMD would be considered as UNRESPONSIVE and will not be considered.

In case EMD is submitted in the form of BG, the BG should be valid till 45 days after the bid validity date, as per Annexure-XI. The list of bank is detailed in Annexure XV.

The bidder should enclose EMD of Rs. 7,20,000/- in the form of Bank Guarantee/ Demand Draft drawn in favor of EdCIL (India) Limited and payable at NOIDA, with the Technical Bid. The list of bank from where the EMD is acceptable is placed at annexure XV.

**Note:** Bidders registered with MSME and having valid registration certificate issued by NSIC/MSME are exempted for submission of EMD. However, MSMEs are advised to submit their financial solvency certificate of value not less than 1 Crore issued not earlier than 3 months from the last date of bid submission.

#### **4.6 Refund of EMD:**

- I. The EMD will be returned to unsuccessful Bidder(s) after the award of the work order to the successful bidder.
- II. Earnest money will be forfeited if the bidder unilaterally withdraws the offer, or unilaterally amends, impairs or rescinds the offer within the period of its validity.
- III. In Case of Successful Bidder, the EMD shall be returned after submission of 3% Performance Bank Guarantee from the list of banks detailed in Annexure XV.

#### **4.7 Acceptance/ Rejection of bids:**

- I. EdCIL reserves the right to reject any or all offers without assigning any reason.
- II. EdCIL based on the requirement without assigning any reason to the Bidder may split work/Scope/Bid offer in stages or in parts according to the need of work for ease of execution of work.

#### **4.9 Amendment in Tender Document**

At any time up to the last date for receipt of RFP, EdCIL may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective firm, modify the Bid Document by an amendment. The amendment will be notified on EdCIL's website and will be binding.

## CHAPTER-V

### SCOPE OF WORK

#### **5.1 PROJECT BACKGROUND:**

Atal Tinkering Labs (ATL Labs) are a flagship initiative of the Atal Innovation Mission (AIM) under NITI Aayog, Government of India, aimed at fostering creativity, innovation, and a problem-solving mindset among school students. These labs are established in schools to create a hands-on, do-it-yourself environment where students can explore ideas in science, technology, engineering, and mathematics (STEM). Through experiential learning and exposure to emerging technologies, ATL Labs encourage curiosity, design thinking, and an interest in innovation from an early age.

ATL Labs are equipped with tools such as robotics kits, sensors, microcontrollers, 3D printers, computers, and basic electronics to help students design and build prototypes and solutions for real-world problems. Implemented across thousands of schools in urban and rural areas of India, the program aims to nurture future innovators and entrepreneurs by strengthening technical skills, creativity, and critical thinking among students from Classes 6 to 12.

#### **5.2 Objective**

The establishment of Atal Tinkering Lab (ATL) in selected schools. The purpose is to provide a hands-on learning environment where students can explore STEM concepts through experiential learning. The teacher of schools will select content from the structured LMS and course content document and conduct teaching activities on the digital platform to explain the provided kit objectives with the live experiments.

The Atal Tinkering Lab (ATL) project will be implemented as a single, integrated phase covering delivery, installation, and complete lab setup along with onsite handholding support, onsite and centralized training, Go-Live assistance, deployment of required resources, helpdesk support, warranty, maintenance, and overall project monitoring. It will also include extended access to the Learning Management System (LMS) and digital content, capacity-building and teacher training, continued helpdesk support, warranty and maintenance for the AMC period, deployment of resources as per scope, and ongoing project monitoring, reporting, and compliance in line with the guidelines issued by NITI Aayog and the Ministry of Education (MoE).

This component has been defined as a separate recurring part and must be quoted for separately in the Bill of Quantities (BoQ). Bidders are advised to read the BoQ carefully and ensure accurate and comprehensive pricing in accordance with this scope and the latest NITI Aayog guidelines. Annual Maintenance Contract (AMC) may be implemented as per the NITI Aayog Guidelines.

### 5.3 Overview/Background

1. Site survey & feasibility is to be undertaken for identification of the classrooms at each school for the establishment of Atal Tinkering Lab's at respective site.
2. Delivery of ATL Package Kits (such as electronics, robotics, IoT, sensors etc) and other mandatory equipment as per the defined BOM and specification provided in technical specification. Assembling, Installation and handholding of the Atal Tinkering Lab kits/equipment, hardware like (Laptop and IFP), Structure of LMS & relevant Content / digital teaching learning material in selected Schools.
3. Configuration & setup of ATL kits hardware as well as Assemble and kit equipment to ensure functionality. The same must be explained to the Teachers and provide the handholding of the same while assembling and installation.
4. Provide onsite demonstrations to Teachers on kit equipment usage and its safety protocols.
5. Provide dedicated onsite trainers to assist during assembling of the equipment, installation, including troubleshooting and setup of advanced tools (e.g., IoT modules, AI kits etc).
6. Unpacking, positioning, and installation of equipment in the designated ATL Space within the schools.
7. Setup and commissioning of kits, Mechanical Tools, Robotics Kits, Laptops, IFP and other ATL- specified equipment.
8. Ensuring proper connectivity, power supply, and operational readiness of all equipment.
9. Supply and installation of furniture and refurbishment of the Space (ATL Lab) as per ATL design guidelines.
10. Testing of installed kits and certification of operational readiness.
11. Provide multilingual (Hindi & English) multimedia based relevant digital content, consisting of audio - video material, for easy access by the teaching community which will be used in the labs to explain the experiments with clarity.
12. The BIDDER will be responsible for installation handholding of the kit hardware/equipment and will make sure the same is handed over to the School in up and running condition. The power supply in Lab, shall be provided by the client. For the last mile connection to the machine, equipment, and other peripheral device the BIDDER will make the necessary arrangement.
13. Warranty of the all ATL Kit hardware/equipment and maintenance of application software like LMS And Content, and other device for 1 year from Commencement

Operation Date (COD). During warranty period related consumables related to (P1 to P4) are to be provided. The successful bidder will be required to provide warranty support/AMC in accordance to the requirement of end client.

14. During comprehensive AMC support from second year onwards, the related consumables for all equipment deployed in ATL Lab along-with teachers training for improving utilisation of deployed solution.
15. Exhaustive training for teachers/headmaster on how to use, demonstrate the equipment of the ATL Lab.
16. Helpdesk and onsite support/troubleshooting for repair and maintenance of the equipment.
17. The successful bidder will be required to deploy a PMU based on the requirement of the client. The PMU will oversee the implementation, monitoring, and continuous enhancement of Atal Tinkering Lab (ATL)
18. The BIDDER/OEM should have at least one hubs at state level and the BIDDER/OEM shall maintain the availability of a minimum of 5% of spare parts in the stock anytime.

#### **5.4 Supply of Atal Tinkering Lab Equipment**

The BIDDER shall be required to supply the equipment at respective school location. The list of school shall be provided to the successful bidder at the time of issuing the work order. The successful bidder has to provide electricity power point connection for Laptop, IFP, UPS for IFP and other kit equipment.

1. Hardware Installation – The detailed specifications and quantities are provided in Annexure XIX, of this tender document.
2. All hardware and peripherals shall be supplied in full as per ordered configuration and quantity for acceptance testing. The hardware which does not comply with the technical specification will not be accepted under any circumstance. The Supplier shall adhere to all the technical specification and other terms.
3. The School Headmaster /Teacher or any official nominated by the client will provide a sign off after successful handover of the Atal Tinkering Lab in their respective school.

#### **5.5 Learning Management System and Content**

The BIDDER shall provide the relevant Content and LMS for teaching and experimental purposes of the Lab equipment. The content should be accessed as well as managed centrally through LMS.

1. The LMS should be capable of providing various analytical reports to get meaningful insights.
2. Role based access & user management: User roles, permissions, authentication, monitoring.

3. MIS Reports shall be customizable as per requirements of the client for analytics, planning and decision making.
4. Content should be aligned with the curriculum framework and learning objectives.
5. Content should be available both offline and online via the LMS application.
6. Content should be able to demonstrate proper concept clarity and teachers should be able to use it with easy process.

### **5.6 Technical Specifications**

The technical specifications and related requirements are provided as separate Annexure XIX to this tender document. The BIDDER can offer a higher / latest specification without changing the make of the product.

### **5.7 Help Desk Support**

The BIDDER shall set up a helpdesk unit in the local office of the client for the purpose of operational and maintenance support. This helpdesk unit shall be operated by the selected BIDDER as per the details mentioned in the SLA & Penalty clause for entire duration of the project. The following shall be the function of the helpdesk unit:

1. A user can register a complaint and issue with the helpdesk unit by way of calling a toll-free number, sending an email to the dedicated email id/app or physical submission in the form of a letter. Dedicated team for technical queries via phone, WhatsApp and email .
2. Helpdesk unit shall be manned during the time defined in the scope.
3. All registered complaints /records shall be maintained and reporting of all logs shall be provided to the Authority every month.
4. This helpdesk shall also be used for providing user level support for operations & demonstration in virtual mode

### **5.8 Training and capacity building**

The BIDDER shall provide the phase-wise training as per the below mentioned schedule at his own cost. The bidder should ensure that training of all the key personnel's must be in accordance with the training schedule provided in the said tender document. The BIDDER shall be responsible for training, orientation, and handholding of the School Teacher /Headmaster /Principal. The training of the key personnel should include the following but the scope is not limited to–

S. No	Phases	Training Description	Schedule
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1	Phase 1 (In-Person Training) – District/State Level	The selected BIDDER will deploy qualified master trainer(s) to train teachers at the school level on handholding of hardware, usage, curriculum understanding, LMS features, content, etc., along with conducting lab experiments.	During the handover of the ATL lab
2		A 5-day in-person workshop will be conducted at the state level for teachers nominated by the selected schools, covering the standard modules of the ATL Lab with hands-on experiments as per NITI Aayog guidelines. An assessment will also be conducted to grade the teachers, based on which a separate refresher training may be organized.	With a month from the date of Go-Live
3	Phase 2 (Online Refresher Training)	A one-day online refresher training session will be conducted fortnightly, including virtual demonstrations of kits/equipment, in batches of 40 teachers.	This will continue for one year from the date of Go-Live.

- a. Exhaustive training of the Kits usage, Basics of electronics (breadboard circuits, multimeter use), IoT integration, and robotics, Design thinking and STEM curriculum alignment, LMS Content and its structure, hands-on training of the teachers on the kits and its application such that users are conversant with the functionalities, features and processes built in the solution.
- b. Conducting structured training sessions for teachers on ATL equipment usage and integration into the curriculum.
- c. Training on design thinking, STEM-based learning, and project-based problem-solving approaches.
- d. Provision of training materials, user manuals, and video tutorials for reference.
- e. Hands-on demonstration of all supplied equipment, including safety guidelines and basic operational training.

- f. All the necessary training materials, user manual, and training completion certificates will be provided to the key personnel.
- g. Selected BIDDER has to provide the digital content of the training materials, which the trainees can download and view later.
- h. The duly certified scanned copy of the attendance record of the attendees along with the session plan for the day should be submitted in the hard for documentation purposes.
- i. Deploy adequate training resources and deployed trainers should be fluent in speaking Hindi and English.
- j. The BIDDER shall provide hands-on training in such situation where there is a new joiner/transferred teacher.
- k. The training sessions shall be organized by the selected BIDDER in line with the training plan submitted to the client/EdCIL for approval.

#### **5.9 Delivery**

BIDDER shall bear the cost for packaging, transport, insurance, storage, and delivery of all the goods at all locations as per the allocated schools.

The BIDDER must submit the report that shall include corresponding serial numbers of equipment(s) dispatched, unique ID number on the equipment, packing list and other such documents. Equipment dispatched without such reports shall be considered as violation of the terms and conditions.

Goods which are found to be Dead on Arrival (DoA) will be liable for immediate replacement and the cost of replacement to be borne by the BIDDER. The Hardware for Atal Tinkering Lab under DoA will be considered as not received and the BIDDER will be responsible for replacing the same within the delivery timelines agreed as per the Contract/Agreement.

#### **5.10 Project Duration**

The project has been bifurcated into 2 Parts as provided below:-

**Part I**

S. No.	Activity/Milestone	Description	Time Period
1.	Supply, Assembling, Installation and handholding of the Atal Tinkering Lab and its equipment (Go-Live Period)	All machines, equipment, devices, software, hardware are being supplied, installed, and configured at project unit making Atal Tinkering Lab functional as per specifications. Once the Atal Tinkering Lab becomes functional in the school and it is ready to use for teaching and learning purposes that day will be considered as commencement operation day (COD/Go-Live)	3 Months
2.	On-site PMU, Training & Capacity Building, Helpdesk support.	Comprehensive Teacher Training in all 3 phases as per the requirement of the client. Helpdesk support to be provided as per the requirement of the client.	1 Year from Go-Live
3.	Onsite Warranty & Support Period	Time period post installation and handholding, for providing technical (preventive, restorative, reactive maintenance) and other maintenance and incidental support on all equipment, including immediate replacement of faulty components. Addressing any defects, malfunctions, or hardware failures during the warranty period. Deployment of support personnel for troubleshooting and operational assistance for a year.	1 Year from Go-Live

**Part II (Comprehensive AMC Period for 2<sup>nd</sup> year to 5<sup>th</sup> year – Refer BoQ)**

S. No.	Activity/Milestone	Description	Time Period
1.	On-site PMU, Training & Capacity Building, Helpdesk support.	Comprehensive Teacher Training, PMU and helpdesk support.	From 2nd year to 5 <sup>th</sup> year

2.	Onsite Warranty & Support Period, Capacity Building, Resource Deployment as per the Scope of Work	Time period post installation and handholding, for providing technical (preventive, restorative, reactive maintenance) and other maintenance and incidental support on all equipment, including immediate replacement of faulty components. Addressing any defects, malfunctions, or hardware failures during the warranty period. Deployment of support personnel for troubleshooting and operational assistance for 2nd year onwards.	From 2nd year to 5 <sup>th</sup> year
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### 5.11 WARRANTY & SUPPORT

1. To provide One (01) Year On-site Warranty Support Period from the date of Go-Live of the Project.
2. Selected agency shall ensure the smooth functioning of all the equipment supplied for Tinkering lab during the warranty & support period and to achieve the highest up time on the offered solution.
3. Selected agency shall ensure that the equipment supplied shall not be declared as End of Support / End of Service for a period of 3 years and the software upgrades if any shall be available for at least three years from the date of commissioning of the device.
4. On-site warranty support: Selected agency 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. Training & Handholding, Key training requirements 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. Provide hands-on training on the hardware, software application such that users are conversant with the functionalities, features and processes built in the solution.
  - iv. Submit Attendance Record of the Trainers (in Hard copy) along with the session plan for the day.
  - v. Deploy adequate training resources.
  - vi. Deployed trainers should be fluent in speaking Hindi, English.
  - vii. Ensure training and handholding of the school teachers/headmaster so they can further train the other teachers accordingly.
  - viii. Develop a training manual for each of the Lab activity for the teachers which should act as a ready reckoner for reference by the teachers at school level.

## **5.12 HELPDESK AND ONSITE SUPPORT**

1. Selected system integrator shall be required to set up a centralized Helpdesk support at head office for logging issues and complaints from various stakeholders and resolving them in time bound manner.
2. The Selected system integrator shall deploy adequate manpower including IT Coordinators / operators who would provide online support to stakeholders & client management support.
3. Minimum qualification for manpower shall be any graduate/diploma with good Computer, Hardware, Networking and communication skills (both Hindi, English) who can manage LAB hardware and software components on site and provide training as well as hand holding to different stakeholders
4. Selected system integrator shall appoint a dedicated Project Coordinator for this project to liaise with Client/EdCIL to ensure onward execution of the project successfully.

## **5.13 Insurance & Transportation**

- I. The selected Bidder shall be responsible for acquiring comprehensive insurance including transit insurance, liability insurance and any other insurance as required for all the equipment till the delivery, installation and commissioning at the respective end client location/school level (whichever applicable).
- II. For delivery of goods at the end clients location, the insurance should be obtained by the Supplier in an amount equal to 110% of the value of the goods from "supplier location to end client location" (final destinations) on "All Risks" basis including War Risks and Strikes. The insurance should be valid for a period of not less than 3 months after the completion of installation and commissioning. If orders placed on CIF/CIP basis, the insurance should be up to End Client place
- III. The Supplier should make all arrangements towards safe and complete delivery at End Clients Location. Such responsibility on part of the supplier will include taking care of insurance, freight, octroi, state level permits etc. as applicable.
- IV. The supplier should also take care of transit insurance, comprehensive insurance or any other insurance as required which may have direct bearing on the delivery of the items / equipments at End Clients location.
- V. It is the total responsibility of supplier to complete all formalities to transit of goods from the place of dispatch to End Clients Location.
- VI. The bidder should ensure that no person can engage in the business of a common carrier unless he has granted a certificate of registration to do so for supply of items at End Clients Location.
- VII. The transportation of goods through unregistered common carrier is illegal. The bidder should ensure to comply the carriage by latest Road Act and any other relevant.
- VIII. The supplier will keep EdCIL informed about various stages of deliveries & installation.
- IX. All costs related to insurance shall be borne by the selected Bidder for goods supplied under the Agreement against loss or damage incidental to manufacture

or acquisition, transportation, storage and delivery etc. A copy of Insurance Certificate should be provided to EdCIL.

#### **5.14 Unloading and Unpacking:**

Unless specified otherwise in the purchase order, Unloading and storage of the same at the designated place should be undertaken by the successful bidder. The Unpacking of the materials should also be arranged by successful bidder.

#### **5.15 Pre-Delivery Inspection**

- I. The successful Bidder shall facilitate and make available 100% equipment for PDI, a random 10% sample of each equipment type being supplied by them for a Pre-dispatch Inspection (PDI) by a committee comprising of EdCIL and end client. The PDI will be a key requirement prior to shipment of the equipment. As part of the preparation for PDI, the successful Bidder will provide to EdCIL PDI preparation report.
- II. In the event of the hardware and software failing to pass the PDI, as per the specifications given, a period not exceeding 3 calendar days will be given to the selected Bidder to rectify the failure and clear the inspection, failing which, EdCIL reserves the right to cancel the Purchase Order and levy appropriate penalties in addition to the Liquidated Damages. EdCIL/client will not be responsible for any costs associated with such rejection. The bidder will be responsible for all equipment supplied till they are delivered and commissioned at the designated location/end client location.
- III. Additionally, the bidder shall replace the complete lot of equipment belonging to an equipment type, if more than 25% of the sample size for the equipment type are found defective during the PDI. If the lots for two consecutive types of equipment are rejected, the entire shipment of equipment by the manufacturer shall stand rejected and shall have to be replaced by the selected Bidder with a fresh batch of equipment for shipment and related PDI. Any cost impacts of rejection at any stage shall be borne by the Bidder. If the complete shipment is rejected, EdCIL reserves the right to cancel the Purchase Order and levy penalties in addition to the Liquidated Damages. All penalty calculation are explained in detail in SLA.

#### **5.16 Delivery, Installation and commissioning of all Equipments:**

- I. Delivery, Installation and commissioning of the complete solution at the school level or the desired location should be made within a maximum of 30 calendar days from the date of placement of purchase order.
- II. The successful bidder to provide absolute supply and Commissioning schedule within 15 days from the issue of Purchase Order.
- III. Within 24 hours of dispatch, the supplier should notify the EdCIL by cable/ telex/ fax/ e-mail the full details of the shipment.
- IV. Till the EdCIL/end client takes over/ receives the equipment/ items, the supplier should be responsible to keep the same in safe custody and the charges (if any) to be borne by the successful bidder.

**5.17 Installation and Commissioning of all Equipments:**

- I. As part of commissioning of the delivered equipment, the selected Bidder shall depute its technically qualified representative(s) to facilitate the conduct of inspection of 100% of the delivered quantity in presence of the EdCIL Official(s) and End Client (s), if required.
- II. After completion of the inspection, all the equipment shall be repackaged. Rejected equipment if any shall be returned back to the authorized representative of the selected Bidder. The numbers of such rejected equipment shall be struck off from the Delivery Receipt/Acceptance Receipt and from the Invoice claimed by the bidder.
- III. The equipment to be commissioned for a specific school shall be decided by EdCIL and End client. The power supply and internet connectivity for commissioning will be arranged by End Client. Until the equipment are handed over to respective school authorities/end client location, selected bidder will be solely responsible for the security of all the equipment.
- IV. The selected bidder shall carry out for delivery of all the ATL Labs to the school level/end client location/location provided by EdCIL and its subsequent installation in the classrooms.

**5.18 Final Acceptance Sign off from End Client**

Against the Delivery cum Installation and Commissioning of the Atal Tinkering Labs in each school, the selected Bidder shall get a Delivery cum Installation and Commissioning Sign-off receipt from the school. In all likelihood, the Installation and Commissioning Sign-off receipt for a school shall be provided to the selected Bidder on the same day of successful commissioning of the equipment for that school. The damaged/defective equipment, if any shall be taken back by the selected Bidder.

**5.19 Technology Advancement**

According to the technology advancement successful L1 bidder has to provide upgraded product without any extra cost to meet the technology advancement of the market.

**5.20 Indemnity**

- I. The selected Bidder shall execute and furnish to EdCIL a Deed of Indemnity in favor of "EdCIL" in a form and manner acceptable to EdCIL, indemnifying EdCIL from and against any costs, loss, damages, expense, claims including those from third parties or liabilities of any kind howsoever suffered, arising or incurred inter alia during and after the Agreement period out of:
  - a) Any negligence or wrongful act or omission by the selected Bidder or the selected Bidder's Team in connection with or incidental to this Agreement; or
  - b) A breach of any of the terms of selected Bidder Bid as agreed, the RFP and this Agreement by the Bidder or the selected Bidder's Team.
- II. The indemnity shall be to the extent of 100% in favor of EdCIL.

**5.21 Documentations to be produced by the successful bidder during project:**

- Original Delivery issued by the client with sign and stamp or acknowledgement of delivery.
- Original Installation and Commissioning certificate issued by the client with sign and stamp or acknowledgement of Commissioning.
- Warranty Certificate in original of all the items supplied to client.
- School wise coloured photographs and videos of 1-minute duration (in soft copy) of every school when the product is installed within 30 days from the date of commissioning of the project. The video must capture the functionality of the device(s) in presence of any official/teacher.

**5.22 Variation Clause:**

EdCIL reserves the right to increase or decrease the quantity to be ordered up to 100 % of bid quantity based on client(s) requirement. During exercise of the variation clause contracted rates shall remain applicable. The work order will be issued on pro-rata basis as per client(s) requirement. The successful Bidder will be bound to accept the work orders accordingly. The accepted rates shall be valid for 1 year from the date of issue of first purchase order.

**CHAPTER-VI****Eligibility and Bid Evaluation****6.1 Bid Evaluation Process:**

Evaluation will be based on the bidder meeting the eligibility criteria and subsequently evaluation of financial bid. It is mandatory for the bidder to fulfil all the eligibility criteria to be qualified for technical evaluation.

**6.2 Eligibility Criteria:**

<b>S. No.</b>	<b>Specific Requirement</b>	<b>Documentary Evidence</b>
1	<p>The bidder should be a company registered in India under Companies Act 1956 or 2013 or Proprietorship /Partnership Firm with their registered office in India and in operation for at least 3 years preceding the bid due date.</p> <p><b>For MSME/NSIC registered bidder:</b> The bidder should be a company registered in India under Companies Act 1956 or 2013 or Proprietorship /Partnership Firm with their registered office in India and in operation for at least 2 years preceding the bid due date.</p> <p>Note: In case of change of name/merger etc. details of all relating history must also be submitted. Consortium is not allowed</p>	<ul style="list-style-type: none"> <li>• Certificate of Incorporation Registration/ Partnership Deed</li> <li>• Memorandum and Article of association</li> <li>• PAN and GST Registration Certificate.</li> </ul>
2	<p>The BIDDER should have the average annual turnover of at least Rs. 20 Crores during the last three financial years i.e. 2022-23, 2023-24 and 2024-25. Bidder should have positive net worth as of 31<sup>st</sup> March 2025.</p> <p>Bidder should be a profit-making entity in each of the last three financial years i.e. 2022-23, 2023-24 and 2024-25.</p> <p><b>For MSME/ NSIC registered bidder:</b></p>	<p>a. Certificate from the Statutory Auditor or Chartered Accountant on Turn Over and Positive Net worth</p> <p>b. Audited Balance Sheets and Profit &amp; Loss statement for last three years i.e. 2022-23, 2023-24 and 2024-25.</p>

S. No.	Specific Requirement	Documentary Evidence
	The BIDDER should have the average annual turnover of at least Rs.16 Crore during the last three financial years i.e. 2022-23, 2023-24 and 2024-25. Bidder should have positive net worth as of 31 <sup>st</sup> March 2025. Bidder should be a profit-making entity in each of the last three financial years i.e. 2022-23, 2023-24 and 2024-25.	
3	The BIDDER must have an experience of successful implementation of Similar Project(s) of following value during the last 3 years preceding bid due date. Atal Tinkering Lab Project(s) in any Government Schools in single work order with value not less than Rs. 15 Crores <b>For MSME/ NSIC registered bidder:</b> Bidder should have the experience of Implementation of Atal Tinkering Lab in Govt. / Govt. Aided Schools in single work order of value not less than 12 crores.	Work Orders / MoU and Completion Certificate. Work orders executed under a consortium will not be accepted.
4	The BIDDER must have executed at least one work order for the implementation of Atal Tinkering Labs in government schools, with a minimum of 100 Atal Tinkering Labs, within the last 3 years preceding bid due date. <b>For MSME/ NSIC registered bidder:</b> The BIDDER must have executed at least one work order for the implementation of Atal Tinkering Labs in government schools, with a minimum of 80 Atal Tinkering Labs, within the last 3 years preceding bid due date.	Copy of the MoU /MoA /Work Order along with the corresponding Completion Certificate. Work orders executed under a consortium will not be accepted.
5	The bidder should be an ISO 9001, 14001 and 27001 certified organisation.	Copy of valid certificate(s)
6	The BIDDER must submit the Manufactures Authorization certificate with compliance sheet specific to this tender for: A. Package 1 to Package 4 B. Interactive Flat Panel and Projector C. Laptop	Ink signed OEM MAF (Manufacturer Authorization Form) as per the prescribed format with proper contact details of the signatory (Name, Telephone/Cell Phone Number, Email ID) to be submitted with the bid. OEMs of DIY kit in ATL Packages

S. No.	Specific Requirement	Documentary Evidence
		should have valid BIS Certificate under category of Safety of Electric toys (For DIY kits) IS 15644:2006, Category C, Subcategory– 65
7	A Power of Attorney / Board Resolution in the name of the person signing of the tender.	Original Power of Attorney / Board Resolution Copy on a non-judicial stamp paper
8	The BIDDER must not have been declared insolvent/ bankrupt or should not have filed for insolvency/ bankruptcy or in the process of being declared bankrupt before any designated authority preceding bid due date.	A Self Declaration on the Letter head of the BIDDER regarding BIDDER Company not being bankrupt or in process of being declared insolvent / bankrupt as on date.
9	The BIDDER as well as any of its subsidiaries / affiliates should not have been blacklisted by the Central Government, State Governments, PSU or any Government Corporations in India, as on date.	Self-Declaration notarized on non-judicial Rs. 100 Stamp paper for not being blacklisted (Refer per Annexure)

### **TECHNICAL EVALUATION**

The Technical Evaluation will be conducted based on the relevant support documents submitted by the Bidders.

S.No.	Description	Evaluation Criteria	Max Marks	Supporting documents
1.	The bidder should be a company registered in India under Companies Act 1956 or 2013 or Proprietorship /Partnership Firm with their registered office in India in operation for at least 3 years preceding the bid due date.	More than 3 Years: 5 Marks	10	Incorporation certificate to be submitted
		More than 5 Years: 7 Marks		
		More than 7 Years: 10 Marks		
2.	The BIDDER should have the average annual turnover of at	More than 20 Crores: 10 Marks	20	<ul style="list-style-type: none"> <li>• Certificate from the Statutory Auditor or</li> </ul>

	least Rs. 20 Crores during the last three financial years i.e. 2022-23, 2023-24 and 2024-25.	More than 25 Crores: 15 Marks		Chartered Accountant on Turn Over and Positive Net worth
		More than 30 Crores: 20 Marks		<ul style="list-style-type: none"> <li>Audited Balance Sheets and Profit &amp; Loss statement for last three years i.e. 2022-23, 2023-24 and 2024-25.</li> </ul>
3.	The BIDDER must have an experience in supply & commissioning of Atal Tinkering Labs Project in a Single Work Order of value INR 15 Cr or more in Government Schools in last three years as on preceding bid due date.	≥15 Cr : 10 Marks	20	<ul style="list-style-type: none"> <li>Copy of the MoU/MoA/Work Order along with the Completion Certificate.</li> <li>Work orders executed under a consortium will not be accepted.</li> </ul>
		≥20 Cr : 20 Marks		
4.	Single project for the implementation of minimum 100 Atal Tinkering Labs in Govt. Schools in last three years as on bid end date	Minimum 100 ATLS: 10 Marks	20	<ul style="list-style-type: none"> <li>Copy of the MoU/MoA/Work Order along with the Completion Certificate</li> <li>Work orders executed under a consortium will not be accepted.</li> </ul>
		More than 100- Less than 150 ATLS: 15 Marks		
		150 or more ATLS: 20 Marks		
5.	Total no of Atal Tinkering Labs established by the BIDDER in Govt. Schools in last three years as on bid end date	<ul style="list-style-type: none"> <li>Minimum 200 ATLS: 5 Marks</li> <li>More than 200- Less than 300 ATLS: 10 Marks</li> <li>300 or more ATLS: 15 Marks</li> </ul>	15	<ul style="list-style-type: none"> <li>Copy of the MoU/MoA/Work Order along with the Completion Certificate</li> <li>Work orders executed under a consortium will not be accepted.</li> </ul>

6.	The bidder should be an ISO 9001, 14001 and 27001 certified organisation	<ul style="list-style-type: none"> <li>• ISO 9001: 5 Marks</li> <li>• ISO 14001: 5 Marks</li> <li>• ISO 27001: 5 Marks</li> </ul>	15	<ul style="list-style-type: none"> <li>• Copy of valid certificate(s)</li> </ul>
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**For MSME/ NSIC registered bidder:**

S.No.	Description	Evaluation Criteria	Max Marks	Supporting documents
1.	The bidder should be a company registered in India under Companies Act 1956 or 2013 or Proprietorship /Partnership Firm with their registered office in India in operation for at least 2 years preceding the bid due date.	More than 2 Years: 5 Marks	10	Incorporation certificate to be submitted
		More than 3 Years: 7 Marks		
		More than 5 Years: 10 Marks		
2.	The BIDDER should have the average annual turnover of at least Rs. 16 Crores during the last three financial years i.e. 2022-23, 2023-24 and 2024-25.	More than 16 Crores: 10 Marks	20	<ul style="list-style-type: none"> <li>• Certificate from the Statutory Auditor or Chartered Accountant on Turn Over and Positive Net worth</li> <li>• Audited Balance Sheets and Profit &amp; Loss statement for last three years i.e. 2022-23, 2023-24 and 2024-25.</li> </ul>
		More than 20 Crores: 15 Marks		
		More than 25 Crores: 20 Marks		
3.	The BIDDER must have an experience in supply &	≥12 Cr : 10 Marks	20	<ul style="list-style-type: none"> <li>• Copy of the MoU/MoA/Work Order along with</li> </ul>

	commissioning of Atal Tinkering Labs Project in a Single Work Order of value INR 12 Cr or more in Government Schools in last three years as on preceding bid due date.	≥16 Cr : 20 Marks		the Completion Certificate.
4.	Single project for the implementation of minimum 80 Atal Tinkering Labs in Govt. Schools in last three years as on bid end date	Minimum 80 ATLS: 10 Marks More than 80- Less than 120 ATLS: 15 Marks 120 or more ATLS: 20 Marks	20	<ul style="list-style-type: none"> <li>Copy of the MoU/MoA/Work Order along with the Completion Certificate</li> </ul>
5.	Total no of Atal Tinkering Labs established by the BIDDER in Govt. Schools in last three years as on bid end date	<ul style="list-style-type: none"> <li>Minimum 150 ATLS: 5 Marks</li> <li>More than 150- Less than 200 ATLS: 10 Marks</li> <li>200 or more ATLS: 15 Marks</li> </ul>	15	<ul style="list-style-type: none"> <li>Copy of the MoU/MoA/Work Order along with the Completion Certificate</li> </ul>
6.	The bidder should be an ISO 9001, 14001 and 27001 certified organisation	<ul style="list-style-type: none"> <li>ISO 9001: 5 Marks</li> <li>ISO 14001: 5 Marks</li> <li>ISO 27001: 5 Marks</li> </ul>	15	<ul style="list-style-type: none"> <li>Copy of valid certificate(s)</li> </ul>

**Note:**

- Documents must be provided in support of the following otherwise bids will be summarily rejected.
- The Work orders executed under a consortium will not be accepted.
- Technical bids will also be reviewed for compliance with the necessary Instructions, terms and conditions, scope of work, formats etc. as outlined in this tender.
- The Technical bid will be evaluated by evaluation committee set-up by EDCIL.
- The bidder who scores minimum 70 marks out of 100 marks in the technical evaluation shall be declared as technically qualified bidder and those shall be notified for opening of their financial bid

**Evaluation of financial bids:**

- On fulfilment of Pre- qualification criteria and technical compliance, financial bids of technically qualified bidders will be evaluated. Bids of the bidders, who do not qualify in the technical evaluations stage, will be rejected and will not be eligible for any further processing.
- Financial bids would be opened only for those Bidders, who secure the qualifying marks in the Technical Evaluation as explained above.
- The bidder should quote for all components of the solution(s) in accordance to the pre-qualification and technical qualification criteria.
- Financial Evaluation shall be done on the basis of total price of each solution separately.
- Price quoted by the bidder includes all transportation and installation etc. cost (if any).
- Any conditional commercial bid will lead to disqualification of the entire bid and forfeiture of the EMD.
- It is mandatory for the bidder to fulfil all the Pre-qualification criteria and to be technically qualified to being considered for opening of their Financial Bid and evaluation thereof.
- The financial bids shall be opened in the presence of representatives of technically qualified bidders, who may be present. EdCIL should inform the date, place and time for opening of financial bids.
- Financial bid will be inspected to ensure conformance to the format provided in the tender document.
- The bidder shall quote the prices as per the price format given in Part B - Commercial Bid of this RFP.
- The technically qualified bidder who has quoted the lowest price in the financial bid will be L1 and considered for the award of contract.
- A contract will be signed with successful bidder which will be based on the rates identified in the financial bid (subject to downward revision by the successful bidder from time to time).
- Failure to abide the RFP conditions may result into forfeiture of EMD.

### **Work Order**

- Based on the client requirement the work order will be issued to successful bidder on the quoted price.
- Failure to provide services as per requirement by bidder may result into forfeiture of EMD, PBG & termination of the contract.
- EdCIL will intimate the Supplier in writing regarding any extension in the work order. Extension of the contract would not lead to the extension of any of the in-force work orders.

## Chapter-VII

### Delivery Timeline & SLAs

Bidder shall make all the arrangements for the timely delivery and installation of equipment for successful completion of project. No other incidental/TA/DA/any other such expenditure shall be paid by EdCIL.

S.No.	Milestone	Timeline (In Calendar Days)
1.	Acceptance of LOA	T+3
2.	Submission of Performance Bank Guarantee	T+14
3.	Pre-Delivery Inspection	T+15
4.	Delivery of ATAL Tinkering Lab at School level	T+45
5.	Installation, Training and Handholding of ATAL Tinkering Lab at School level	T+60

**Note:- \* Here ‘T’ Indicates the date of LOA.**

**EdCIL reserves the right to change the timelines as per the requirement of the client. The milestones and timelines can be minimized as per the requirements of the individual projects/end client at the time of award of work order.**

Delivery of the services with the performance in line with the requirements shall be made by the bidder in accordance with the time schedule specified by the Purchaser. If at any time during performance of the contract, the bidder should encounter conditions impeding timely delivery of the Goods and performance of Services, the bidder shall promptly notify the Purchaser in writing of the fact of the delay, its likely duration and its cause(s). As soon as practical after receipt of the bidder’s notice, the Purchaser shall evaluate the situation and may, at its discretion, extend the bidder’s time for performance with or without liquidated damages, in which case the extension shall be ratified by the parties by amendment of the Contract.

#### **Service Level Agreement and Penalty clauses:**

- Delivery of all hardware equipment in schools should be done within 30 days from date of issue of purchase order. Penalty in case of delay @ Rs.500 per day per Schools will be levied.
- Training of teachers and capacity building should be completed within 30 days after the delivery of the hardware. Penalty in case of delay @ Rs. 200/- per day per Schools will be levied.
- In case the selected system integrator is not able to complete the work as per above schedule, an additional penalty of Rs. 25,000/- per week shall be applicable to them.
- In case the selected system integrator is not able to appoint a Project Coordinator for this project at Agartala and joining letter of Staff as documentary evidence, a penalty of Rs.10,000/- (Rupees Ten Thousand only) per week shall be applicable.

- Any penalty may be revoked as decided by the authority of client/ EdCIL on analyzing/examining the factual report.

### Chapter-VII

#### Payment terms

##### Payment Term

S.No	Milestone	Payment %
1.	<p>Payment shall be released after Satisfactory Pre-Delivery Inspection of equipments by PDI Committee and successful delivery of all hardware and software at school level.</p> <p>Payment will be made if items are found in good condition as per term and conditions mentioned in the RFP.</p> <p>The bidder should submit the following documents to the EdCIL for the payment:</p> <ul style="list-style-type: none"> <li>• PDI report duly signed by EdCIL/Client.</li> <li>• Original Tax invoice showing contract number, goods description, quantity unit price, total amount.</li> <li>• Delivery report duly signed and stamped from HM/AHM of School.</li> <li>• E-way bills</li> </ul>	40% of the total value of work order
2.	<p>Payment shall be released after successful installation and commissioning of all hardware and software items at identified location as per client.</p> <p>The bidder should submit the following documents to the EdCIL for the payment:</p> <ul style="list-style-type: none"> <li>• Installation report duly signed and stamped from HM/AHM of School.</li> <li>• Warranty Certificate.</li> <li>• Submission of Training Attendance sheet.</li> <li>• Submission of Training report.</li> </ul>	40% of the total value of work order

3.	<p>Payment will be made after successful completion of teachers training.</p> <p>The bidder should submit the following documents to the EdCIL for the payment:</p> <ul style="list-style-type: none"> <li>• Duly signed attendance sheet</li> <li>• Training photographs must be submitted to the EdCIL/ Client.</li> <li>• Delivery of training material.</li> </ul>	10% of the total value of work order
4.	<p>The warranty/AMC will be for a total period of 1 year.</p> <p>Payment shall be released after successful completion of 1st year AMC/warranty period.</p>	10% of the total value of work order

### **AMC Payment 2nd year onward**

S.No	Milestone	Payment %
1.	Payment shall be released after successful completion of 2 <sup>nd</sup> year AMC/warranty period	100% of 2 <sup>nd</sup> Year AMC value
2.	Payment shall be released after successful completion of 3 <sup>rd</sup> year AMC/warranty period	100% of 3 <sup>rd</sup> Year AMC value

### **Note:**

- Payments will be done only on the back to back basis on receipt of the related payment/funds from the end client, subject to satisfactory acceptance of the deliverables from the end client as per the submission of the required document.
- Warranty start will be reckoned from the date of commissioning as approved by the end client. Part payment can be made against commissioning in accordance to the progress of the project.
- The implementation partner also need to provide the geo tagged photographs.

### **Performance Security**

The successful bidder shall be required to deposit Performance security as per Annexure-XI equivalent to 3% of work order value to EdCIL within 14 days from the date of issue of Work Order. The Performance Security should be issued in favour of "**EdCIL (India) Limited**" to be valid for a period of 90 days beyond the date of completion of O&M period & contractual obligations. This Performance Bank Guarantee should be retained throughout the currency of the contract and shall be extended by the bidder from time to time, as required by EdCIL. The list of bank from where the Performance security is acceptable is at Annexure-XV. PBG shall be returned to the successful bidder only after 90 days of the successful completion of the Contract. In case of any shortfall of any activity/ specification/ other terms and conditions of the contract, EdCIL reserves the right to recover damages or loss from the due the payment or by the encashment of PBG.

## **Chapter-VIII**

### **Key Contract Terms**

#### **1. Arbitration**

- a. Any dispute arising out of or in connection with this contract, including any question regarding its existence, validity or termination, shall be referred to and finally resolved by arbitration administered by the India International Arbitration Centre (“IIAC”) in accordance with the India International Arbitration Centre (Conduct of Arbitration) Regulations (“IIAC Regulations”) for the time being in force, which regulations are deemed to be incorporated by reference in this clause.
- b. The place/seat of the arbitration shall be New Delhi, India.
- c. The Tribunal shall consist of one arbitrator.
- d. The law governing the arbitration agreement shall be Indian Law.
- e. The language of the arbitration shall be English.
- f. The governing law of the Contract shall be Indian Law.
- g. Arbitration cost to be borne by the Supplier.

#### **2. Non-Disclosure**

The firm and their personnel shall not, either during the term or after expiration of this contract, disclose any proprietary or confidential information relating to the services, contract, terms, prices or the client’s business or operations details without the prior written consent of the client.

#### **3. Risk Purchase Clause**

In event of failure of supply of the item/equipment within the stipulated delivery schedule, the EdCIL has all the right to purchase the item/equipment from the other source on the total risk and cost of the supplier under risk purchase clause.

#### **4. Compensation**

In consideration of the Services hereunder, EdCIL India Limited shall pay BIDDER the fees and expenses (“Charges”) as specified in Commercial. All amounts payable to BIDDER are exclusive of any Taxes. EdCIL India Limited shall be entitled to deduct from applicable payments to BIDDER, any tax on BIDDER’ income deductible at source at the rates applicable as per the provisions of Income Tax Act 1961 and provide BIDDER with evidence or certificate of payment of such tax to the taxing authorities. BIDDER shall submit invoices to EdCIL India Limited in accordance with the payment schedule in Commercial of this document. Payment stages are available at Chapter-VIII

#### **5. Representations and Warranties**

Bidder warrants that the Services will be provided in a skillful and workman like manner and in conformity with the scope described in Scope of Work Proposed Functional Scope of this document. Notwithstanding the aforesaid, any Services which are provided by bidder free of charge or are otherwise not chargeable shall be provided on an 'AS IS' basis without any warranties whatsoever. Each Party represents, warrants and covenants to the other that: (i) it is duly organized and validly existing and in good standing under the laws of the state of its incorporation or formation; (ii) it has the full right and authority to enter into and that this Agreement constitutes a legal, valid and binding obligation; and (iii) its execution, delivery and performance of this Agreement does not and will not conflict with, or constitute a breach or default under, its charter of organization, or any contract or other instrument to which it is a party.

## **6. Limitation of Liability**

Neither EdCIL India Limited nor the bidder shall be liable to the other for any special, indirect, incidental, consequential (including loss of revenue, data and/or profit), exemplary or punitive damages, whether in contract, tort or other theories of law, even if the Party has been advised of the possibility of such damages. The total cumulative liability of either party under this Agreement shall not exceed the value of the contract. The limitation on any Party's liability herein shall not apply to liability for damages, resulting from (i) the willful misconduct; (ii) breach of the use terms in respect of use of bidder Application System; and (iii) breach of confidentiality obligations.

## **7. Confidential Information**

Each Party (the "Receiving Party") acknowledges and agrees to maintain the confidentiality of Confidential Information (as hereafter defined) provided by the other Party (the "Disclosing Party") hereunder. The Receiving Party shall not disclose or disseminate the Disclosing Party's Confidential Information to any person other than those employees, agents, contractors, subcontractors and licensees of the Receiving Party, or its affiliates, who have a need to know it in order to assist the Receiving Party in performing its obligations, or to permit the Receiving Party to exercise its rights under this Agreement. In addition, the Receiving Party (i) shall take all such steps to prevent unauthorized access to the Disclosing Party's Confidential Information, as it takes to protect its own confidential or proprietary information of a similar nature, which steps shall in no event be less than a reasonable standard of care, (ii) shall not use the Disclosing Party's Confidential Information, or authorize other persons or entities to use the Disclosing Party's Confidential Information, for any purposes other than in connection with performing its obligations or exercising its rights hereunder, and (iii) shall require all persons and entities who are provided access to the Disclosing Party's Confidential Information, to execute confidentiality or non-disclosure agreements containing provisions substantially similar to those set forth in this Clause. The provisions of this Clause respecting Confidential Information shall not

apply to the extent, but only to the extent, that such Confidential Information is: (a) already known to the Receiving Party free of any restriction at the time it is obtained from the Disclosing Party, (b) subsequently learned from an independent third party free of any restriction and without breach of this provision; (c) is or becomes publicly available through no wrongful act of the Receiving Party or any third party; (d) is independently developed by the Receiving Party without reference to or use of any Confidential Information of the Disclosing Party; or (e) is required to be disclosed pursuant to an applicable law, rule, regulation, government requirement or court order, or the rules of any stock exchange. Upon the Disclosing Party's written request at any time, or following the completion or termination of this Agreement, the Receiving Party shall promptly return to the Disclosing Party, or destroy, all Confidential Information of the Disclosing Party provided under or in connection with this Agreement, including all copies, portions and summaries thereof.

## **8. Force Majeure**

The selected Bidder should not be liable for forfeiture of its performance security, liquidated damages or termination for default, if and to the extent that, its delays in performance or other failure to perform its obligations under the Contract is the result of an event of Force Majeure.

- I. For purposes of this Clause, "Force Majeure" means an event beyond the control of the bidder and not involving the bidder's fault or negligence and not foreseeable. Such events shall include, but are not limited to, acts of the EdCIL either in its sovereign or contractual capacity, wars or revolutions, fires, floods, epidemics, quarantine restrictions and freight embargoes.
- II. If a Force Majeure situation arises, the bidder should promptly notify the EdCIL in writing of such conditions and the cause thereof. Unless otherwise directed by the EdCIL in writing, the Supplier shall continue to perform its obligations under the Contract as far as is reasonably practical, and should seek all reasonable alternative means for performance not prevented by the Force Majeure event.

## **9. Prices**

- I. The price should be quoted in per unit (with breakup) and must include all packing and delivery charges. The offer/bid should be inclusive of taxes and duties, which will be paid as applicable. However, the percentage of taxes and duties should be clearly indicated. The inter se merit position of the bids however shall be decided based on the composite price of the product including taxes, transportation, Warranty with all other incidental expenses indicated.
- II. The prices must be quoted in the Performa given in Financial Bid failing which the Bid would be treated as unresponsive. Any discount or any other offers affecting the package price must be mentioned in Financial Bid only. Discount or any other offers affecting the Package price mentioned at any other place of the bid other than Financial Bid will not be considered.

- III. The price quoted should be inclusive of 1 year on site comprehensive warranty including basic training and demonstration to the end client.

#### **10. Notices**

For the purpose of all notices, the following should be the address :

**Chief General Manager (DES)  
EdCIL (India) Limited,  
18 A, Sector-16A,  
Noida-201301, Uttar Pradesh  
Tel: 91-120-2512001 to 2512006**

**Supplier:** (To be filled in by the supplier)

- Any notice given by one party to the other pursuant to this contract/order should be sent to the other party in writing or e-mail and confirmed in writing from the other party's address.
- A notice should be effective when delivered or on the notice's effective date, whichever is later.

#### **11. Supplier Integrity**

The selected bidder is responsible for and obliged to conduct all contracted activities in accordance with the Contract using state of the art methods and economic principles and exercising all means available to achieve the performance specified in the contract.

#### **12. Governing Language**

The contract should be written in English language. English language version of the Contract should govern its interpretation. All correspondence and other documents pertaining to the Contract, which are exchanged by the parties, should be written in the same language.

#### **13. Applicable Law**

The Contract should be interpreted in accordance with the laws of the Union of India and all disputes should be subject to place of jurisdiction. The place of jurisdiction would be New Delhi (Delhi) INDIA.

#### **14. Right to Use Defective Goods**

- I. If after delivery, acceptance and installation and within the guarantee and warranty period, the operation or use of the goods proves to be unsatisfactory, EdCIL should have the right to continue to operate or use such goods until rectifications of defects, errors or omissions by repair or by partial or complete replacement is made without interfering with the EdCIL's operation.

- II. Replacement of Goods broken, damaged or short: In the event of any material or part thereof found broken or damaged or received short during transit or during installation or Commissioning or testing at site, before commissioning in service the suppliers should replace the same free of cost. However, EdCIL may recover amount equivalent to the cost of such damaged / broken / short supplied materials and will repay when actual replacement is given.
- III. Substitution and Wrong Supplies: Unauthorized substitution or materials delivered in error of wrong description or quality or supplied in excess quantity or rejected goods should be returned to the supplier at their own cost and risk.

#### **15. Taxes**

Selected Bidder should be entirely responsible for all taxes, duties, road permits, etc., incurred until delivery of the contracted Goods/Services. EdCIL shall only make payment towards the GST Charged in the invoice other than that no other taxes/ duties/ Charges will be paid.

#### **16. Defective Equipment**

- I. If any of the equipment supplied by the Bidder is found to be substandard, refurbished, un-merchantable or not in accordance with the description/specification or otherwise faulty, the committee will have the right to reject the equipment or its part. The prices of such equipment should be refunded by the Bidder with 18% interest if payments for such equipment have already been made.
- II. All damaged or unapproved goods should be returned at suppliers' cost and risk and the incidental expenses incurred thereon should be recovered from the supplier. Defective part in equipment, if found before installation and/or during warranty period, should be replaced on receipt of the intimation from EdCIL/end client at the cost and risk of supplier including all other charges. In case supplier fails to replace above item as per above terms & conditions, EdCIL (INDIA) LTD may consider "Banning" the supplier.

#### **17. Termination for Default**

The EdCIL should, without prejudice to any other remedy for breach of contract, by written notice of default sent to the Supplier, terminate the Contract in whole or part:

- I. If the Supplier fails to complete the work within the period(s) specified in the order, or within any extension thereof granted by the EdCIL; or
- II. If the Supplier fails to perform any other obligation(s) under the Contract.
- III. If the Supplier, in the judgment of the EdCIL has engaged in corrupt or fraudulent practices in competing for or in executing the Contract.
- IV. For the purpose of this Clause:

- “**Corrupt practice**” means the offering, giving, receiving or soliciting of anything of value to influence the action of a public official in the procurement process or in contract execution.
- “**Fraudulent practice**” means a misrepresentation of facts in order to influence a procurement process or the execution of a contract to the detriment of the Borrower, and includes collusive practice among Bidders (prior to or after bid submission) designed to establish bid prices at artificial non-competitive levels and to deprive the Borrower of the benefits of free and open competition;”
- In the event the EdCIL terminates the Contract in whole or in part, the EdCIL should procure, upon such terms and in such manner, as it deems appropriate, Goods or Services similar to those undelivered, and the Supplier should be liable to the EdCIL for any total risk & costs for such similar Goods or Services. However, the Supplier should continue the performance of the Contract to the extent not terminated.

V. In case supplier fails to submit PBG within stipulated time, EdCIL reserves the right to terminate the contract without any further notice

**18. Tender Conditions with Implementation of Insolvency and Bankruptcy Code, 2016 (IBC)**

- a) It will be the responsibility of the bidder to inform EdCIL within 15 days from the date of order of insolvency resolution process or liquidation or bankruptcy proceeding passed by the Adjudicating Authority namely, National Company Law Tribunal (NCLT) or Debt Recovery Tribunal (DRT) under the Code.
- b) If bidder refuses or fails to share the information regarding their status of insolvency resolution process or liquidation or bankruptcy proceeding in their bid or at any later stage, their offer is liable to be rejected by EdCIL.
- c) EdCIL reserves the right to cancel/terminate the contract without any liability on the part of EdCIL immediately on the commencement of insolvency resolution process or liquidation or bankruptcy proceeding of any party under the contract.
- d) EdCIL reserves its right to evaluate and finalise the bid without considering the bid of any party undergoing insolvency resolution process or liquidation or bankruptcy proceeding under the Code regardless of the stage of tendering.
- e) A declaration / undertaking shall be submitted by the bidder in the Format (as per ANNEXURE-XVIII) along with techno commercial bid.

**19. Guide lines for Evaluation & Short closure:**

- a) After opening of price bid but before award, if a bidder(s) is(are) rejected due to initiation of insolvency resolution process or liquidation or bankruptcy

proceeding under Insolvency and Bankruptcy Code, 2016 (Code), tender will be finalized ignoring such bid(s).

- b) During execution of contract, if insolvency resolution process or liquidation or bankruptcy proceeding under Insolvency and Bankruptcy Code, 2016 (Code) is initiated against a contractor and EdCIL shall have the right to short close the contract.

## **20. Compliance certificate**

This certificate must be provided on their letter head indicating conformity to the technical specifications.

## **21. Award of Contract**

- I. EdCIL reserves the right to accept or reject any proposal and to annul the bidding process and reject all proposals at any time prior to award of contract, without thereby incurring any liability to the Bidders. In case of annulment, all proposals submitted and specifically, proposal securities shall be promptly returned to the Bidder.
- II. EdCIL has the right to review at any time prior to award of contract that the pre-qualification criteria, are still being met by the Bidder whose offer has been determined as first rank. A proposal shall be rejected if the eligibility criteria, are no longer met by the Bidder whose offer has been determined as first rank.

## **22. User List**

Brochure detailing technical specifications and performance, list of industrial and educational establishments where the items have been supplied must be provided.

## **23. Product Life**

The Models offered should strictly conform to the specifications given in the product literature and these models should be supported for a minimum period of 1 year including warranty period. The Models proposed/ marked for withdrawal from the market and the models under quality testing should not be offered.

In addition to the above, if any additional/ enhanced configuration is suggested in view of technological changes, it may be furnished as optional feature with/without cost duly explaining the additional utility of the offered model in both the technical offer document as well as Commercial Offer document. However, the basic quote should be confined only to the configuration/ model offered for.

## **24. Acknowledgement**

It is hereby acknowledged that we have gone through all the conditions mentioned above and we agree to abide by them.

**25. Price Information**

Price information shall not be there in Technical Bid.

**26. Rates in Figures and Words**

Rates Quoted by the Bidder in tender in figures and words shall be accurately filled in so that there is no discrepancy in the rates written in figures and words. However, if a discrepancy is found, the rates which correspond with the amount worked out by the contractor shall unless otherwise proved be taken as correct. If the amount of an item is not worked out by the contractor or it does not correspond with the rates written either in figures or in words then the rates quoted by the contractor in words shall be taken as correct. Where the rates quoted by the bidder in figures and in words tally but the amount is not worked out correctly, the rates quoted by the Bidder will unless otherwise proved be taken as correct and not the amount. In event no rate has been quoted for any item(s), leaving space both in figure(s), word(s) and amount blank, it will be presumed that the Bidder has included the cost of this/these item(s) in other items and rate for such item(s) will be considered as zero and work will be required to be executed accordingly.

In the case of any tender where unit rate appear unrealistic, such tender will be considered as unbalanced and in case the tender is unable to provide satisfactory explanation such a tender is liable to be disqualified and rejected.

**27. Fall Clause**

The Bidder undertakes that the rates quoted by him in the financial bid for each item is not higher than the rate offered by him for similar work to any other PSU/ AB/ Govt department. In case, if the price charged by bidder is more, EdCIL will have the right to recover the excess charged amount from the subsequent/unpaid bill of the supplier, provided all condition of the work including time, scope, logistics, specifications and country are same.

**Technical Compliance Sheet**

I have also enclosed all relevant documents in support of my claims, (as above) in the following pages.

Signature of Bidder Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Contact No.: \_\_\_\_\_

Seal of the Company: \_\_\_\_\_

ANNEXURE-II**<< Organization Letter Head >>  
DECLARATION SHEET**

We, \_\_\_\_\_ hereby certify that all the information and data furnished by our organization with regard to this tender specification are true and complete to the best of our knowledge. I have gone through the specification, conditions and stipulations in details and agree to comply with the requirements and intent of specification.

We further certified that our organization meets all the conditions of eligibility criteria laid down in this tender document. Moreover, we will support on regular basis with technology / product updates and extend support for the warranty.

We, further specifically certify that our organization has not been Black Listed/ De Listed or put to any Holiday by any Institutional Agency/ Govt. Department/ Public Sector Undertaking in the last four years.	NAME & ADDRESS of the VENDOR/ MANUFACTURER/ AGENT
1 Phone	
2 Fax	
3 E-mail	
4 Contact Person Name	
5 Mobile Number	
6 TIN Number	
7 PAN Number	
(In case of on-line payment of EMD)	
8. UTR No. (For EMD)	
9. Kindly provide bank details of the bidder in the following format:	
a) Name of the Bank	
b) Account Number	
c) Kindly attach scanned copy of one Cheque book page to enable us to return the EMD to unsuccessful bidder	

**(Signature of the Tenderer)**

**Name:** \_\_\_\_\_

**Seal of the Company**

**Letter of undertaking**

**(ON THE LETTER HEAD OF THE BIDDER)**

To  
Chief General Manager (DES)  
EdCIL (India) Limited (EdCIL)  
EdCIL House, 18 A, Sector-16 A,  
NOIDA – 201301 (U.P.)

Sir,

**SUBJECT-** Selection of System Integrator for “Supply, Installation and Commissioning of Atl Labs In Government Schools”

This bears reference to EdCIL Bid No. **EdCIL/DES/ATL//2025/007** dated ..... We, hereby, accept all the terms and conditions for submitting bid as mentioned in this Bid Document.

We hereby certify that no terms and conditions have been stipulated by us in the Financial Bid.

We warrant that the services do not violate or infringe upon any patent, copyright, trade secret or other property right of any other person or other entity. We agree that we shall not prevent EdCIL from any claim or demand, action or proceeding, directly or indirectly resulting from or arising out of any breach or alleged breach of any of the terms & conditions of bid document and contract.

The above document is executed on ..... at (place) \_\_\_\_\_ and we accept that if anything out of the information provided by us is found wrong, our bid/ work order shall be liable for rejection.

Thanking you,

Yours faithfully,

Name of the Bidder \_\_\_\_\_  
Authorized Signatory \_\_\_\_\_  
Seal of the Organization \_\_\_\_\_

Date:

Place:

ANNEXURE IV

**UNDERTAKING OF NON BLACKLISTING**

This is to confirm that we M/s \_\_\_\_\_ (give full address) or any of our affiliated companies or subsidiaries have not been declared neither **failed to perform on any Agreement, nor have been expelled from any project or Agreement nor any Agreement terminated** for breach by the us (Agency) in any of the government department and public sector undertaking /enterprise or by any other Government Client in India, in last five year before release of advertisement.

"We confirm herewith that our company is not blacklisted, debarred or prosecuted by any central Government or state Government department/Government Organization/PSU for corrupt, fraudulent or any other unethical business practices. We do not have any litigation pending with any of the Govt. Organizations."

If the above information found false at any stage after the placement of Work Order / Agreement, EdCIL (India) Limited (EdCIL), 18-A, Sector 16-A, Noida will have full right to cancel the Contact and forfeit the Performance Guarantee. All the direct and indirect cost related to the cancellation of the order will be borne by us besides any legal action by EdCIL which shall be deemed fit at that point of time.

Authorized Signatory

**Note: *The undertaking regarding the non-blacklisting of firm is to be submitted on a non-judicial stamp paper of Rs. 100/- (Rupees Hundred only).***

ANNEXURE V**Financial Statement**

Sl. No.	Financial Year	Annual Turnover	Net Worth	Profit/Loss
1.	2022-23			
2.	2023-24			
3.	2024-25			
Total				
Average of FY 2022-23, 2023-24 and 2024-25				

**Note:** Certificate from Statutory Auditor/ Chartered Accountant certifying balance sheet for all three FY years to be attached.

**Signature with Seal of the Chartered Accountant**

**Signature with Seal of the Bidder**

ANNEXURE-VIList of Orders

Bid No.:

Date:

Name of the Firm:

S.No	Name of Client	Name of the Project and brief description	Value (Excl. Tax)	Date of award	Date of Completion	Current Status and duration of maintenance period for ongoing project	Name of Contact Person and other details
1.							
2.							
3.							
4.							

Signature of Bidder

**(Signature with seal)**

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

Organization Name: \_\_\_\_\_

Contact No. : \_\_\_\_\_

**ANNEXURE-VII**

**Manufacturer's Authorization Form (MAF)**  
{to be filled by OEM}

To  
Chief General Manager (DES),  
EdCIL (India) Limited,  
EdCIL House, 18A, Sector- 16A,  
NOIDA- 201 301 (U.P)

Subject: OEM Authorization Letter for Request for Proposal (RFP) for Selection of System Integrator for **“Supply, Installation and Commissioning of ATL Labs In Government Schools”**

Dear Sir,

We, who are established and reputable having factories / development facilities at (address of factory / facility) do hereby authorize \_\_\_\_\_ 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

**ANNEXURE-VIII**

**Power of Attorney**

Know all men by these presents, we..... (name of firm and address of the registered office) do hereby constitute, nominate appoint and authorize Mr./Ms..... son/daughter/wife of ..... and presently residing at....., who is presently employed with /retained by us and holding position of.....as our true and lawful attorney

(hereinafter referred to as the “Authorized Representative”) to do in our name and on our behalf, all such acts, deeds and things are as necessary or required in connection with or incidental to submission of our proposal for and selection as the <project title> for the <name of the client>.....project, proposed to be developed by the

..... (the “client”) including but not limited to signing and submission of all applications, proposals and other documents and writings, participating in pre bid and other conferences and providing information /responses to the client, representing us in all matters before the Client, signing and execution of all contracts and undertakings consequent to acceptance of our proposal and generally dealing with the client in all matter in connection with or relating to or arising out of our Proposal for the said project /or upon award thereof to us till the entering into of the Agreement with the client.

AND, we do hereby agree to ratify and confirm all acts, deeds and things lawful done or caused to be done by our said Authorized Representative pursuant to and in exercise of the powers conferred by this power and Attorney and that all acts, and things done by our said Authorized Representative in exercise of the powers hereby conferred shall and shall always be deemed to have been done by us.

[IN WITNESS WHEREOF WE.....THE ABOVE-NAMED PRINCIPAL HAVE EXECUTED THIS POWER OF ATTORNEY ON

THIS ..... DAY OF ..... 2025.

For ..... (Name and registered address of client)

(Signature, name, designation, and address)

Witness:

1. (Signature, name and address)
2. (Signature, name and address)

Notarized

Accepted

.....

(Signature, name, designation, and address of the attorney)

Notes:

1. The mode of the execution of the power of Attorney shall be in accordance with the procedure, if any, laid down by the applicable law and the charter documents of the executants (s) and when it is so required the same should be under seal affixed in accordance with the required procedure.
2. Wherever required, the applicant should submit for verification the extract of the charter documents and other documents such as a resolution/Power of Attorney in favor of the person executing this Power of Attorney for delegation of power hereunder on behalf of the applicant.
3. For a Power of Attorney executed and issued overseas, the document will also have to be legalized by the Indian Embassy and notarized in the jurisdiction where the Power and Attorney is being issued. However, the Power of Attorney provided by the applicants from countries that have signed The Hague Legislation Convention, 1961 are not required to be legalized by the Indian Embassy it is carries a conforming Apostle certificate.

ANNEXURE-IXLETTER OF BID SUBMISSION

To  
 Chief General Manager (DES),  
 EdCIL (India) Limited,  
 EdCIL House, 18A, Sector- 16A,  
 NOIDA- 201 301 (U.P)

**SUBJECT:** Selection of System Integrator for “Supply, Installation and Commissioning of ATL Labs In Government Schools”

*-Submission of Bid -*

Sir,

Having examined the details given in Press Notice, Notice Inviting Bid & Bid Document for the above work, I/we hereby submit the relevant information.

1. I/We hereby certify that all the statements made and information supplied in the enclosed form \_\_\_\_\_ and accompanying statements are true and correct.
2. I / we certify that we have not changed/alterd any word/sentence or any figure in number/s or words appearing the original tender document uploaded by EdCIL on the designated web page for e-tendering. In case, if a fraudulent activity is found at any stage between tender submission to final closure of the tender/contract, our candidature/bid/contract shall be immediately cancelled and EMD/Performance security/ security deposit along with the due amount towards the work executed or advance shall be forfeited. EdCIL will not entertain any claim or entertain any reason for this intentional act. EdCIL may go for the legal action against the bidder for recovering any one or all damages caused to EdCIL or its client on this account.
3. I/We have furnished all information and details necessary for eligibility and have no further pertinent information to supply.
4. I/We submit the requisite **certified solvency certificate** and authorize the EdCIL to approach the Bank issuing the solvency certificate to confirm the correctness thereof. I/We also authorize EdCIL to approach individuals, employers, firms and corporation to verify our competency and general reputation.
5. I/We submit the following **certificates** in support of our suitability, technical knowledge and capability for having successfully completed the following works:

S.No.	Name of Work	Certificate From

6. Earnest Money Deposit amounting to Rs. 7,20,000 in the form of DD/Pay Order No. ----- dated ----- issued by ----- Bank is submitted.
7. Demand Draft of Rs. (NIL)/- towards Bid document cost.: If applicable

Enclosures:

Date of Submission :

**ANNEXURE – X**

**Bank Guarantee towards Bid Security (EMD)**

Bank Guarantee No. \_\_\_\_\_

To,  
Chief General Manager (DES)  
EdCIL (India) Limited  
EdCIL House, 18 A,  
Sector-16 A NOIDA – 201301 (U.P.), India

Whereas ..... (here in after called "the Bidder") has submitted its Bid dated .....(Date) in response to the RFP No:..... for Selection of System Integrator for **“Supply, Installation and Commissioning of ATL Labs In Government Schools”** (here in after called "the Bid") KNOW ALL MEN by these presents that We ..... having our registered office at..... (hereinafter called the "Bank") are bound onto EdCIL India Limited, Noida (hereinafter called "EdCIL") in the sum of ..... for which payment well and truly to be made to the said EdCIL itself, its successors and assignees by these presents.

The conditions of these obligations are:

1. If the Bidder withdraws its Bid during the period of Bid validity or
2. If the Bidder, having been notified of the acceptance of its Bid by EdCIL

during the period of Bid validity:

1. fails or refuses to execute the Agreement form if required; or
2. fails or refuses to furnish the performance security, in accordance with the Bid requirement

We undertake to pay EdCIL up to the above amount upon receipt of its first written demand, without EdCIL having to substantiate its demand, provided that in its demand EdCIL will note that the amount claimed by it is due to it, owing to the occurrence of one or both of the two conditions, specifying the occurred condition or conditions.

This guarantee will remain in force up to (Date) and any demand in respect thereof should reach the Bank not later than the above date.

Dated:        the        Day        of        for

(indicate the name of bank)

Signature of Banks Authorized official

Witness (Name) \_\_\_\_\_ Designation with Code No. ....

1. Full Address-----

**Annexure XI**

Name of the Bank: \_\_\_\_\_

To

**Chief General Manager (DES)  
EdCIL (India) Limited  
EdCIL House, 18 A, Sector-16 A  
NOIDA – 201301 (U.P.)**

**PERFORMANCE BANK GUARANTEE FORMAT**

In consideration of the Chief General Manager EdCIL acting through \_\_\_\_\_ (Designation & address of Contract Signing Authority), (hereinafter called “The EdCIL (India) Ltd”) having agreed under the terms and conditions of agreement/ Contract Acceptance letter No. \_\_\_\_\_

Dt : \_\_\_\_\_ Made between \_\_\_\_\_ (Designation & address of contract signing Authority) and \_\_\_\_\_ (here in after called “the said Agency” for the work \_\_\_\_\_ (here in after called “the said agreement”) having agreed for submission of a irrevocable Bank Guarantee Bond for ₹ \_\_\_\_\_ ( ₹ \_\_\_\_\_ only) as a performance security Guarantee from the Agency for compliance of his obligations in accordance with the terms & conditions in the said agreement.

1. We \_\_\_\_\_ (Indicate the name of the Bank) hereinafter referred to as the Bank, undertake to pay to the EdCIL (India) Ltd an amount not exceeding ₹ \_\_\_\_\_ ( ₹ \_\_\_\_\_ only) on demand by the EdCIL (India) Ltd.
2. We \_\_\_\_\_ (Indicate the name of the bank, further agree that ( and promise) to pay the amounts due and payable under this guarantee without any demur merely on a demand from the EdCIL (India) Ltd through the CGM(DES), EdCIL (India) Ltd, Noida or \_\_\_\_\_ (Designation & Address of contract signing authority), stating that the amount claimed is due by way of loss or damage caused to or would be caused or suffered by the EdCIL (India) Ltd by reason of any breach by the said Agency of any of the terms of conditions contained in the said agreement or by reason of the Agency failure to perform the said agreement. Any such demand made on the Bank shall be conclusive as regards the amount due and payable by the Bank under this guarantee. However, our liability under this guarantee shall be restricted to an amount not exceeding ₹ \_\_\_\_\_ ( ₹ \_\_\_\_\_ Only).
3. (A) We \_\_\_\_\_ ( indicate the name of Bank ) further undertake to pay to the EdCIL (India) Ltd any money so demanded notwithstanding any dispute or dispute raised

by the Agency in any suite or proceeding pending before any court or Tribunal relating to liability under this present being absolute and unequivocal.

(B) The payment so made by us under this Performance Guarantee shall be a valid discharge of our liability for payment there under and the Agency shall have no claim against us for making such payment.

4. We \_\_\_\_\_ (Indicate the name of bank) to further agree that the guarantee herein contained shall remain in full force and effect during the period that would be taken for the performance of the said agreement and that it shall continue to be enforceable till all the dues of the EdCIL (India) Ltd under or by virtue of the said agreement have been fully paid and its claims satisfied or discharged by \_\_\_\_\_

(Designation & Address of contract signing authority) on behalf of the EdCIL (India) Ltd, certify that the terms and conditions of the said agreement have been fully and properly carried out by the said Agency and accordingly discharges this guarantee.

5 (a) Notwithstanding anything to the contrary contained herein the liability of the bank under this guarantee will remain in force and effect until such time as this guarantee is discharged in writing by the EdCIL (India) Ltd or until ( date of validity/ extended validity) whichever is earlier and no claim shall be valid under this guarantee unless notice in writing thereof is given by the EdCIL (India) Ltd within validity/ extended period of validity of guarantee from the date aforesaid.

(b) Provided always that we \_\_\_\_\_ (indicate the name of the Bank) unconditionally undertakes to renew this guarantee or to extend the period of guarantee form year to year before the expiry of the period or the extended period of the guarantee, as the case shall be on being called upon to do so by the EdCIL (India) Ltd. If the guarantee is not renewed or the period extended on demand, we \_\_\_\_\_ (indicate the name of the Bank) shall pay the EdCIL (India) Ltd the full amount of guarantee on demand and without demur.

6. We \_\_\_\_\_ ( indicate the name of Bank ) further agree with the EdCIL (India) Ltd that the EdCIL (India) Ltd shall have the fullest liberty without our consent and without effecting in any manner out of obligations hereunder to vary any of the terms and conditions of the said contract from time to time or to postpone for any time or from time to time any to the powers exercisable by the EdCIL (India) Ltd against the said Agency and to forbear or enforce any of the terms and conditions of the said agreement and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Agency for any bearance act or omission on the part of the EdCIL (India) Ltd or any indulgence by the EdCIL (India) Ltd to the said Agency for by any such matter or thing whatsoever under the law relating to sureties for the said reservation would relive us from the liability.

7. This guarantee will not be discharged by any change in the constitution of the Bank or the Agency.
8. We, \_\_\_\_\_ (indicate the name of the Bank) lastly undertake not to revoke this guarantee except with the previous consent of the EdCIL (India) Ltd in writing.
9. This guarantee shall be valid up to (Date of Completion plus 90 Days). Unless extended on demand by EdCIL (India) Ltd. Notwithstanding anything to the contrary contained hereinbefore, our liability under this guarantee is restricted to Rs..... (Rs.....only) unless a demand under this guarantee is made on us in writing on or before..... we shall be discharged from our liabilities under this guarantee thereafter.

Dated:	The	Day of	For
		(indicate the name of bank)	
		Signature of Banks Authorized official	
Witness		(Name) _____	
		Designation with Code No. ....	
1		Full Address.....	
2.			

**ANNEXURE-XII**

**PROFORMA PRE CONTRACT INTEGRITY PACT**

**GENERAL**

This pre-bid pre-contract Agreement (hereinafter called the Integrity Pact) is made on \_\_\_ day of the month of .... 2025, between, on one hand, acting through Shri/Smt. \_\_\_\_\_, Designation, EdCIL (India) Limited (hereinafter called the “BUYER”/ “EdCIL” interchangeably, which expression shall mean and include, unless the context otherwise requires, his successors in office and assigns) of the First Part

**AND**

M/s \_\_\_\_\_ represented by Shri \_\_\_\_\_, Chief Executive Officer (hereinafter called the “BIDDER/Seller” which expression shall mean and include, unless the context otherwise requires, his successors and permitted assigns) of the Second Part.

WHEREAS the EdCIL proposes to procure services towards Selection of System Integrator for “**Supply, Installation and Commissioning of ATL Labs In Government Schools**”.

For its clients and BIDDER/Seller is willing to offer the said services and related items as referred to in the Bid document No. **EdCIL/DES/ATL/2025/007** Dated ..... 2025.

WHEREAS the BIDDER is a private company /public company / Government undertaking / partnership / registered expert agency, constituted in accordance with the relevant law in the matter and the EdCIL is a Public Sector Undertaking under Ministry of Human Resource Development performing its functions.

NOW, THEREFORE,

To avoid all forms of corruption by following a system that is fair, transparent and free from any influence / prejudiced dealings prior to, during and subsequent to the currency of the contract to be entered into with a view to:

Enabling the EdCIL to obtain the desired services as referred to in the Bid document No. **EdCIL/DES/ATL/2025/007** dated .....2025 at a competitive price in conformity with the defined specifications by avoiding the high cost and the distortionary impact of corruption on public procurement and Enabling BIDDERS to abstain from bribing or indulging in any corrupt practice in order to secure the contract by providing assurance to them that their competitors will also abstain from bribing and other corrupt practices and the EdCIL will commit to prevent corruption, in any form, by its officials by following transparent procedures.

The parties hereto hereby agree to enter into this Integrity Pact and agree as follows:

**1. Commitments of the EdCIL**

- 1.1 The EdCIL undertakes that no official of the EdCIL, connected directly or indirectly with the contract, will demand, take a promise for or accept, directly or through intermediaries, any bribe, consideration, gift, reward, favor or any material or immaterial benefit or any other advantage from the BIDDER, either for themselves or for any person, organization or third party related to the contract in exchange for an advantage in the bidding process, bid evaluation, contracting or implementation process related to the contract.
  - 1.2 The BUYER will, during the pre-contract stage, treat all BIDDERS alike, and will provide to all BIDDERS the same information and will not provide any such information to any particular BIDDER which could afford an advantage to that particular BIDDER in comparison to other BIDDERS.
  - 1.3 All the officials of the EdCIL will report to the appropriate Government office any attempted or completed breaches of the above commitments as well as any substantial suspicion of such a breach.
2. In case any such preceding misconduct on the part of such official(s) is reported by the BIDDER to the EdCIL with full and verifiable facts and the same is prima facie found to be correct by the EdCIL, necessary disciplinary proceedings, or any other action as deemed fit, including criminal proceedings shall be initiated by the EdCIL and such a person shall be debarred from further dealings related to the contract process. In such a case while an enquiry is being conducted by the EdCIL the proceedings under the contract would not be stalled.

3. **Commitments of Bidders**

The BIDDER commits itself to take all measures necessary to prevent corrupt practices, unfair means and illegal activities during any stage of its bid or during any pre-contract or post-contract stage in order to secure the contract or in furtherance to secure it and in particular commit itself to the following:

- 3.1 The BIDDER will not offer, directly or through intermediaries, any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the EdCIL, connected directly or indirectly with the bidding process, or to any person, organization or third party related to the contract in exchange for any advantage in the bidding, evaluation, contracting and implementation of the contract.
- 3.2 The BIDDER further undertakes that it has not given, offered or promised to give, directly or indirectly any bribe, gift, consideration, reward, favour, any material or immaterial benefit or other advantage, commission, fees, brokerage or inducement to any official of the EdCIL or otherwise in procuring the Contract or forbearing to do or having done any act in relation to the obtaining or execution of the contract or any other contract with the Government for showing or forbearing to show favour or disfavor to any person in relation to the contract or any other contract with the Government.
- 3.3 Bidders shall disclose the name and address of agents and representatives and Indian BIDDERS shall disclose their foreign principals or associates.

- 3.4 BIDDERS shall disclose the payments to be made by them to agents/brokers or any other intermediary, in connection with this bid/contract.
- 3.5 The BIDDER further confirms and declares to the EdCIL that the BIDDER is the original manufacturer/integrator/authorized government sponsored export entity and has not engaged any individual or firm or company whether Indian or foreign to intercede, facilitate or in any way to recommend to the EdCIL or any of its functionaries, whether officially or unofficially to the award to the contract to the BIDDER, nor has any amount been paid, promised or intended to be paid to any such individual, firm or company in respect of any such intercession, facilitation or recommendation, as the case shall be for satisfactory performance of the proposed terms of Bidder.
- 3.6 The BIDDER, either while presenting the bid or during pre-contract negotiations or before signing the contract, shall disclose any payments he has made, is committed to or intends to make to officials of the EdCIL or their family members, agents, brokers or any other intermediaries in connection with the contract and the details of services agreed upon for such payments.
- 3.7 The BIDDER will not collude with other parties interested in the contract to impair the transparency, fairness and progress of the bidding process, bid evaluation, contracting and implementation of the contract.
- 3.8 The BIDDER will not accept any advantage in exchange for any corrupt practice, unfair means and illegal activities.
- 3.9 The BIDDER shall not use improperly, for purposes of competition or personal gain, or pass on to others, any information provided by the EdCIL as part of the business relationship, regarding plans, technical proposals and business details, including information contained in any electronic data carrier. The BIDDER also undertakes to exercise due and adequate care lest any such information is divulged.
- 3.10 The BIDDER commits to refrain from giving any complaint directly or through any other manner without supporting it with full and verifiable facts.
- 3.11 The BIDDER shall not instigate or cause to instigate any third person to commit any of the actions mentioned above.
- 3.12 If the BIDDER or any employee of the BIDDER or any person acting on behalf of the BIDDER, either directly or indirectly, is a relative of any of the officers of the EdCIL, or alternatively, if any relative of an officer of the EdCIL has financial interest / stake in the BIDDER's firm, the same shall be disclosed by the BIDDER at the time of filing of Bid.
- 3.13 The BIDDER shall not lend to or borrow any money from or enter into any monetary dealings or transactions, directly or indirectly, with any employee of the EdCIL.

4. **PREVIOUS TRANSGRESSION**

- 4.1 The BIDDER declares that no previous transgression occurred in the last three years immediately before signing of this integrity pact, with any other company in any country in respect of any corrupt practices envisaged hereunder or with any Public Sector Enterprise in India or any Government Department in India that could justify BIDDER's exclusion from the bid process.
- 4.2 The BIDDER agrees that if it makes incorrect statement on this subject. BIDDER can be disqualified from the Bid process or the contract, if already awarded, can be terminated for such reason.

5. **EARNEST MONEY DEPOSIT**

- 5.1 While submitting Technical bid, the BIDDER shall deposit an amount of Rs. 1,60,000 as Earnest Money with the EdCIL through Account Payee Bank Demand Draft/ BG in favor of EdCIL (India) Limited. The list of bank from where the EMD is acceptable is placed at annexure XV.
- 5.2 The instrument for Security Deposit made shall be valid up to the specified period and the bidder shall be liable to keep the said instrument valid for such extended period as the case shall be for satisfactory performance of the terms of Bidder above referred till the complete conclusion of the contractual obligations to the complete satisfaction of both the BIDDER and the EdCIL, including O&M period, whichever is later.
- 5.3 In case of the successful BIDDER a clause would also be incorporated in the Article pertaining of Performance Bond in the corresponding Contract governing such agreement that the provisions of Sanctions for Violation shall be applicable for encashment of Performance Bank Guarantee deposited towards forfeiture of said amount in case of a decision by the EdCIL to forfeit the same without assigning any reason for imposing such sanction.
- 5.4 No interest shall be payable by the EdCIL to the BIDDER on Earnest Money Deposit for the period of its currency.

6. **SANCTIONS FOR VIOLATIONS**

- 7.1 Any breach of the aforesaid provisions by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER) shall entitle the EdCIL to take all or any one of the following actions, wherever required:
- i. To immediately call off the pre-contract negotiations without assigning any reason or giving any compensation to the BIDDER. However, the proceedings with the other BIDDER(s) would continue.
  - ii. The Earnest Money Deposit (in pre-contract stage) and/or Security Deposit / Performance Bond (Bank Guarantee) (after the contract is signed) shall stand forfeited either fully or partially, as decided by the EdCIL and the BUYER (EdCIL) shall not be required to assign any reason therefore.
  - iii. To immediately cancel the contract, if already signed, without giving any compensation to the BIDDER.

- iv. To recover all sums already paid by the EdCIL, and in case of an Indian BIDDER with interest thereon at 2% higher than the prevailing Prime Lending Rate of State Bank of India, while in case of a BIDDER from a country other than India with interest thereon at 2% higher than the LIBOR as the case shall be. If any outstanding payment is due to the BIDDER from the EdCIL in connection with any other contract for any other stores or on any account whatsoever and by whatsoever name called, such outstanding payment could also be utilized to recover the aforesaid sum and interest thereto.
  - v. To encash the advance bank guarantee and performance bond/warranty bond, if furnished by the BIDDER, in order to recover the payments, already made by the EdCIL, along with interest.
  - vi. To cancel all or any other Contracts with the BIDDER. The BIDDER shall be liable to pay compensation for any loss or damage to the EdCIL resulting from such cancellation/rescission and the EdCIL shall be entitled to deduct the amount so payable from the money(s) due to the BIDDER.
  - vii. To debar the BIDDER from participating in future bidding processes of the Government of India for a minimum period of five years, which shall be further extended at the discretion of the EdCIL.
  - viii. To recover all sums paid in violation of this Pact by BIDDER(s) to any middleman or agent or broker with a view to securing the contract.
  - ix. In cases where irrevocable Letters of Credit have been received in respect of any contract signed by the EdCIL with the BIDDER, the same shall not be opened.
  - x. Forfeiture by way of encashment of Performance Bond in case of a decision by the EdCIL to forfeit the same without assigning any reason for imposing sanction for violation of this Pact.
- 6.2 The EdCIL will be entitled to take all or any of the actions mentioned at Para 6.1(i) to (x) of this Pact also on the Commission by the BIDDER or any one employed by it or acting on its behalf (whether with or without the knowledge of the BIDDER), of any offence as defined in Chapter IX of the Indian Penal code, 1860 or Prevention of Corruption Act, 1988 or any other statute enacted for prevention of corruption.
- 6.3 The decision of the EdCIL to the effect that a breach of the provisions of this Pact has been committed by the BIDDER shall be final and conclusive on the BIDDER. However, an Independent Monitor(s) shall be appointed by EdCIL, in case of breach of the provisions of the pact.

## **7. INDEPENDENT MONITORS**

- 1.1 An Independent monitor (s) shall be appointed by EdCIL, in case of breach of the provisions of the pact.
- 1.2 The task of the Monitors shall be to review independently and objectively, whether and to what extent the parties comply with the obligations under this Pact.
- 1.3 The Monitors shall not be subject to instructions by the representatives of the parties and perform their functions neutrally and independently.
- 1.4 Both the parties accept that the Monitors have the right to access all the documents relating to the project / procurement, including minutes of meetings.
- 1.5 As soon as the Monitor notices, or has reason to believe, a violation of this Pact, he will so inform the Authority designated by the EdCIL.
- 1.6 The BIDDER(s) accept that the Monitor has the right to access without restriction to all Project documentation of the EdCIL including that provided b the BIDDER. The BIDDER will also grant the Monitor, upon his request and demonstration of a valid interest, unrestricted and unconditional access to his project documentation. The same is applicable to Sub-bidders. The Monitor shall be under contractual obligation to treat the information and documents of the BIDDER/Sub-bidder(s) with confidentiality.
- 1.7 The EdCIL will provide to the Monitor sufficient information about all meetings among the parties related to the Project provided such meetings could have an impact on the contractual relations between the parties. The parties will offer to the Monitor the option to participate in such meetings.
- 1.8 The Monitor will submit a written report to the designated Authority of BUYER/Secretary in the Department/within 8 to 10 weeks from the date of reference or intimation to him by the EdCIL / BIDDER and, shall the occasion arise, submit proposals for correcting problematic situations.

## **2. FACILITATION OF INVESTIGATION**

In case of any allegation of violation of any provisions of this Pact or payment of commission, the EdCIL or its agencies shall be entitled to examine all the documents including the Books of Accounts of the BIDDER and the BIDDER shall provide necessary information and documents in English and shall extend all possible help for the purpose of such examination.

## **3. LAW AND PLACE OF JURISDICTION**

This Pact is subject to Indian Law. The place of performance and jurisdiction is the seat of the EdCIL. s

## **4. OTHER LEGAL ACTIONS**

The actions stipulated in this Integrity Pact are without prejudice to any other legal action that shall follow in accordance with the provisions of the extant law in force relating to any civil or criminal proceedings.

**5. VALIDITY**

5.1 The validity of this Integrity Pact shall be governed by the terms of the Bid No. **EdCIL/DES/ATL/2025/007** towards complete execution of the contract to the satisfaction of both the EdCIL and the BIDDER/Seller, including O&M period, whichever is later. In case BIDDER is unsuccessful, this Integrity Pact shall expire after six months from the date of the signing of the contract awarding the Bidder with successful bidder.

5.2 Shall one or several provisions of this Pact turn out to be invalid; the remainder of this Pact shall remain valid. In this case, the parties will strive to come to an agreement to their original intentions.

**6.** The parties hereby sign this Integrity Pact at \_\_\_\_\_ on \_\_\_\_\_.

EdCIL (India) Limited  
Name of the Officer :  
Designation:

**BIDDER**  
**CHIEF EXECUTIVE OFFICER**

Witness:

\_\_\_\_\_  
\_\_\_\_\_

Witness:

1. \_\_\_\_\_  
2. \_\_\_\_\_

*(The Pre-Contract Integrity Pact shall be modified based in line with the conditions of the Bid Documents)*

Annexure XIIIContract Form

THIS AGREEMENT made the ..... day of ..... 2025 between ..... EdCIL (Hereinafter called "the Purchaser") of the one part and ..... (Name & address of Supplier) ..... (Hereinafter called "the Supplier") of the other part:

WHEREAS the Purchaser is desirous that certain Goods and ancillary services viz. .... (Brief Description of Goods and Services) and has accepted a bid by the Supplier for the supply of those goods and services in the sum of ..... (Contract Price in words and Figures) (Hereinafter called "the Contract Price")

NOW THIS AGREEMENT WITNESSETH AS FOLLOWS:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract referred to.
2. The following documents shall be deemed to form and be read and constructed as part of this Agreement, viz.,

[a] The Price Schedule submitted by the Bidder;

[b] The Schedule of Requirements;

[c] The Terms & Conditions

[d] The EdCIL's Notification of Award/ Purchase Order

3. In consideration of the payments to be made by the EdCIL to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the EdCIL to provide the goods and services and to remedy defects herein in conformity in all respects with the provisions of the Contract.
4. The EdCIL hereby covenants to pay the Supplier in consideration of the provision of the goods and services and the remedying of defects therein, the Contract prices or such other sum as shall become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.

Brief particulars of the goods and services, which shall be supplied/ provided by the Supplier, are as under:

S. No.	Brief Description of Goods & Services	Quantity to be supplied	Unit Price	Total Price	Delivery Terms
--------	---------------------------------------	-------------------------	------------	-------------	----------------

TOTAL VALUE:

DELIVERY SCHEDULE:

IN WITNESS where of the parties hereto have caused this Agreement to be executed in accordance with their respective laws the day and year first above written.

Signed, Sealed and Delivered by the  
said ..... (For the EdCIL)

in the presence of .....

Signed, Sealed and Delivered by the  
said ..... (For the Supplier)

in the presence of .....

Annexure XIV**FORM – A**  
**DELIVERY CERTIFICATE**

The items mentioned as per details given below, have been physically verified by way of opening the cartons/packing and verifying the machine/ equipment supplied and model of the Equipment/Items. It is certified and acknowledged that the same have been received at this Institution in good condition.

Sl. No.	Address	School Name	Description of Equipment	Serial No of Device	Make	Model	Quantity
1							

Please make appropriate column, as per requirement.

The items as per details given below was/were received in damaged conditions and therefore are not acceptable. This damaged goods / equipment have been returned to the supplier and supplier is required to supply the new equipment in lieu of damaged one.

**Details of the Goods/Equipment received in objectionable condition**

Sl. No.	Address	School Name	Description of Equipment	Serial No of Device	Make	Model	Quantity
1							

**Signature of School Representative**

Name: \_\_\_\_\_

Designation: \_\_\_\_\_

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

Rubber Seal: \_\_\_\_\_

**ANNEXURE- XV****LIST OF AUTHORISED BANKS FOR BG**

Any Guarantee issued by PSU Bank (or) Private Bank operating in India must be operational and invocable in Noida only. For Guarantee to be operational in Noida the issuing bank must designate a specified Bank Branch in Noida.

Following banks are permissible for accepting Bank Guarantees:

**I- SCHEDULED PUBLIC SECTOR BANKS**

<b>S.No.</b>	<b>Name of the Bank</b>
1	Bank of Baroda
2	Bank of India
3	Bank of Maharashtra
4	Canara Bank
5	Central Bank of India
6	Indian Bank
7	Indian Overseas Bank
8	Punjab & Sind Bank
9	Punjab National Bank
10	State Bank of India
11	UCO Bank
12	Union Bank of India

**II- SCHEDULED PRIVATE SECTOR BANKS**

<b>S.No.</b>	<b>Name of the Bank</b>
1	HDFC Bank Ltd
2	ICICI Bank Ltd
3	Axis Bank Ltd
4	Kotak Mahindra Bank Ltd
5	Indusland Bank Ltd

**Equipment Specification Compliance****COMPLIANCE STATEMENT FORM**

- a) Bidders shall respond to basic sections of this tender clause by clause/Clauses, using a compliance summary statement, the sample format of which is given below. This shall be in sequential order, the same as is given in this specification.

S.No.	Technical specification of each line items as per Scope of work	Compliance statement	Description
		Put Comply or not comply	Explain how the offered good is complaint or not compliant with the requirement of the technical specification attached (if the bidder does not mention justification for compliance, it might be considered as non-compliant)

- b) If no compliance is stated for a clause, the good will be assumed not to comply with that particular specification item, contract and standard commercial terms and Conditions
- c) For purpose of compliance verification, a document and page number cross-reference should be given (where applicable) in the reference column of the compliance summary statement.
- d) The supplier may include other relevant documentation by indicating a page number of document. It is mandatory to include detailed technical documentation, covering specification and quality performance of goods to be offered.
- e) Any clause marked with “comply” in the bidders’ compliance summary statement is binding on the successful bidder to supply goods that meet the requirements of that clause. This shall apply for the lifetime of any awarded contract.

**Annexure XVII****Pre-Bid Query Format**

Pre-bid queries should be submitted in .XLS format.

RFP Description				
RFP No.				
Organization				
Address				
Contact Person				
Contact No.				
Mail Id				
S.No.	Section No.	Page No.	Clause as per RFP	Clarification Sought

**PERFORMA FOR DECLARATION ON PROCEEDINGS UNDER  
INSOLVENCY AND BANKRUPTCY CODE, 2016**

Tender No. : .....  
Name of Work : .....  
Bidder's Name : .....

I/ We, M/s. \_\_\_\_\_ declare that:-

- a) I /We am / are not undergoing insolvency resolution Process or liquidation or bankruptcy proceeding as on date.
- b) I /We am / are undergoing insolvency resolution process or liquidation or bankruptcy proceeding as on date as per Details mentioned below. (Attached detail with technical bid)

Note: Strike out one of above which is not applicable.

It is understood that if this declaration is found to be false, EdCIL (India) Ltd. shall have the right to reject my / our bid, and forfeit the EMD, if the bid has resulted in a contract, the contract will be liable for termination without prejudice to any other right or remedy (including holiday listing) available to EdCIL (India) Ltd.

Place:

Date: Signature of Bidder Name of Signatory

TECHNICAL SPECIFICATIONSATL equipment package (As per Niti Aayog):Package 1: Electronics Development, Robotics, Internet of Things and Sensors

Category	Name	Specification	Quantity	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)		
		PWM digital I/O 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		

Category	Name	Specification	Quantity	Type
		VGA adapter, Case shell enclosure		
Electronics Development	Breadboards & Mini Breadboard	Solderless 400 pin breadboard	30	Consumable
		Solderless 800 pin breadboard	20	
		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		

Category	Name	Specification	Quantity	Type
Electronics Development	Linear Voltage Regulator	7805, 7812,7809	30	Consumable
Electronics Development	Water Pump module	DC12V 3W Submersible Water Pump	4	Consumable
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

Category	Name	Specification	Quantity	Type
		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
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.		

Category	Name	Specification	Quantity	Type
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 package 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		
Internet of Things & Sensors	Humidity Sensor	Operating range:	10	Consumable
		20 – 95 % RH		
		Temperature: 0 - 60 Celsius		
		Power supply:		
		1.5V AC (Max sine)		
		Operating frequency:		
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	
	IR transmitter/	TSOP 1738	10	Consumable

Category	Name	Specification	Quantity	Type
Internet of Things & Sensors	receiver	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 µA (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 Things & Sensors	Big Sound microphone module	Large Electret capsule sound 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	6	Consumable
		Operating Voltage: 3.3V to 5V.		

Category	Name	Specification	Quantity	Type
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.	6	Consumable
		Size: 5mm X 40mm or equivalent.		
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	40	Consumable
		Voltage Range: 3V to 5V		
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	10	Consumable
		Operating Voltage: 5V		
Internet of Things & Sensors	Power Bank	10000 mAh 5-volt Power Bank	5	Consumable
Internet of Things & Sensors	RFID Reader – Tags	Current :13-26mA / DC 3.3V	10	Consumable
		Idle Current :10-13mA		
		Sleep Current<80uA		
		Peak Current<30mA		

Category	Name	Specification	Quantity	Type
		Operating Frequency: 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/Application 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	

Category	Name	Specification	Quantity	Type
	Other Potential STEM Application Kit		1	

**Package 2: Rapid Prototyping Tools (Per ATL Lab)**

Category	Name	Description	Quantity	Type
Rapid Prototyping Tools	3D Printer Kit and tools	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 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		

**Package 3: Mechanical, Electrical and Measurement tools (Per ATL Lab)**

Category	Name	Description	Quantity	Type
Mechanical Tools	Mini Hacksaw Frame	Size: 6 inches	1	Equipment
Mechanical Tools	Mini Hacksaw blades	Size: 6 inches	10	Consumable
Mechanical Tools	Hacksaw	Size: 12 inches	1	Equipment
Mechanical Tools	Extra hacksaw blades	Size: 12 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
Mechanical Tools	Drill Machine Set	Drill Machine with accessories Hammer/Screw 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

Category	Name	Description	Quantity	Type
Mechanical Tools	Wire Strippers	Wire Stripper Cutter Plier With Spring -26x6x20 cm (LxWxH)	5	Equipment
	Vice Normal	Table top vice	1	Equipment
Mechanical Tools	Screwdriver	40 pc Multi-purpose screwdriver set	3	Equipment
	Adjustable Universal Multi Wrench Spanner	Adjustable Universal Wrench	2	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
Mechanical Tools	Plastic Storage Drawer/Organiser	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.	1	Equipment

Category	Name	Description	Quantity	Type
		Minimum number of channels: 2 channels. Sample Rate: 1Gsa/s With inbuilt waveform function generator.		
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	Adjustable crocodile holding clamps/clip. Soldering iron holder. LED light. Magnifying lens.	4	Equipment
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

Category	Name	Description	Quantity	Type
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 $\mu$ 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 Mechanical Tools Mechanical Tools	Sewing Kit Mini Hacksaw Frame Mini Hacksaw blades	Semi-Automatic Sewing machine Straight stitch Consumables - 2 set of assorted needles and 10-colour spool set Size: 6 inches Size: 6 inches	1	Equipment

**Package 4: Power Supply & Accessories and Safety Equipment:**

Category	Name	Description	Quantity	Type
Power Supply & accessories	Glue Sticks	11 mm x 200mm Hot Melt Glue Stick	100	Consumable
Power Supply & accessories	Nuts and Bolts and screw	Specs - M4X12MM M4X20MM M5X16MM M5X25MM M6X20MM	40	Consumable
Power Supply & accessories	Cable Tie	Small Cable Tie Pack - Pack of 100	10	Consumable

Category	Name	Description	Quantity	Type
		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
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	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

**Other Equipment, Refurbishment and Accessories (Per ATL Lab)****Laptop – 3 Quantity per ATL Lab**

S. No.	Component	Detailed Specifications
1	Processor	Intel i3 13th Gen /Ryzen R3 7000 Series or Higer
2	RAM	8 GB RAM DDR 4 - 3200 Mhz or higher expandable to 64 GB (2 Physical DIMM)
3	SSD/Storage	512 GB SSD or higher
4	Graphics	Integrated Graphics,
5	Monitor	Minimum 14 inch LED backlit 250 nits Full HD(1920 x 1080 resolution), Body to Screen ratio should be higher than 82%,
6	External Webcam	HD webcam with Dual Microphone and Privacy camera shutter
7	Ports	Port: HDMI One(l), Headphone /microphone Combo : One (1), Power connector One(l), Wi-Fi 6 enabled, 1 USB 3.2 Gen 2 and 1 USB 3.2 Gen 1, 1 x USB 3.2 Gen 1 (Type C Full functional with display transfer feature)
8	Security	Hardware TPM 2.0, Security Lock Slot.
9	Battery	3 cell with 6 hours or higher backup, 1 Year Comprehensive Warranty including with l years warranty on battery & adapter, reputed brand,
10	Keyboard	Spill-resistant keyboard with Dedicated copilot button and Rupee symbol on the keypad.
11	Body Type	Top and Bottom body should be Metal Body Minimum 50% build material should be metal/Aluminium
12	Pre-installed Software	Pre-install OEM Own Manageability Tool/Software for Asset Management, Patch Management, Power Management Settings, 3rd Party Application Deployment, Network Monitoring (OEM undertaking to be given)
13	Certifications	CE, FCC/UL Compliance, ROHS, CB, BEE/Energy Star, EPR.
14	Weight	Less than 1.50 kg
15	Operating System	OEM factory preloaded Windows 11 Home (OEM undertaking to be given)
16	Certifications	ISO9001, ISO14000, ISO 20000, ISO 27000

**Interactive Flat Panel with UPS (Power Backup)– 1 Quantity per ATL Lab**

S. No.	Component	Parameters	Detailed Specifications
1	Screen Size & Features	Size	65" Interactive Touch Screen
		Resolution	3840(H) ×2160 (V) IPS Screen (DLED Backlit)
		Display Color	1.07Billion Colors (10bit)
		Brightness	400cd/m2*
		View Angle	R/L 178 (Min.), U/D 178 (Min.)
		Aspect Ratio	16:9
2	Sound/speaker feature	speaker output	20W × 2
3	Inputs & Outputs	HDMI Input	3 X IN
		Type C	2
		Multi-Media USB	USB 2.0 and 3.0 or higher
		RS232	1
		RJ-45	2 (RJ45 IN X 1   RJ45 Out X 1)
		Touch input	2
		Bluetooth	BT 5.0 or higher
		WIFI	WIFI 6E
		VGA in	1
		Line In/Out	1
4	Touch screen	Touch Resolution	32768x32768
		Cover Glass	Anti-glare, Mohs 7 Hardness 9
		Touch Accuracy	1mm
		Annotation Over Any Source	Yes
		Response Time	<8ms
		Pen & Touch Differentiation	Yes

		<b>Palm Detection</b>	Yes
		<b>Pens Included</b>	2 Stylus
		<b>Compatibility</b>	Windows 11/ Linux/Android /Chrome
5	<b>Processing Unit</b>	<b>Panel CPU</b>	MTK - A73
		<b>OS Version</b>	ANDROID 14
		<b>Flash</b>	64 GB EMMC
		<b>RAM</b>	8 GB
		<b>Touch</b>	40 points
		<b>Write</b>	20 points
6	<b>OPS PC (Optional)</b>	<b>OPS</b>	Intel Core i5, 10th Gen or better with 8GB Memory or higher and 256 SATA SSD or higher
7	<b>Wall Mount</b>	<b>Yes</b>	VESA Standard (500 x 400mm)
8	<b>Power</b>	<b>AC</b>	AC:100~240V 60/50HZ
9	<b>Typical Power Watt</b>	<b>Yes</b>	≤240W
10	<b>Power Saving or Sleep Mode</b>	<b>Yes</b>	≤0.5W
11	<b>Accessories</b>	<b>Yes</b>	User manual, remote control, power cable, touch cables, HDMI cable, touch pens (2 stylus), , extendable Stylus - optional

### 1 KVA Line Interactive UPS Specifications:

TECHNICAL SPECIFICATIONS			
S.No.	Description	Requirement	
1	Capacity	1000VA higher	
	INPUT	Voltage Range	140V-300VAC
		Frequency	50Hz ±10%
3	OUTPUT	Voltage (Bat. Mode)	230V AC Nominal
		Transfer Time	Typical 8 ms or less
4	BATTERY	Battery Type	SMF (Sealed Maintenance Free)
		DC V / AH / NOS.	(12V / 7AH) x 1 Battery or higher
	Certifications	BIS	
	<b>Features</b>		
	Voltage Stabilization		

5	Protection against Overload, Discharge/ Overcharge.
	Generator Compatibility
	Cold Start Function
	Warranty: Minimum 1 year onsite warranty

**Other Accessories – 1 Quantity per ATL Lab**

S. N.	Category	Specifications	Quantity
1	Speaker	USB powered 2.0 speaker that comes in a compact size with volume control; It has Aux Connectivity and it is USB Powered	1
		Output power 5W RMS (2.5W x 2); Impedance 3Ω	
		Frequency response 120Hz-15kHz; Line input 3.5mm jack	
		1 Year warranty-from the date of purchase	
		Colour Name: Black	
2	Printer	Monochrome, Laser Printer	1
3	Projector	<ul style="list-style-type: none"> <li>• DLP, Front &amp; Rear Both XGA 1024 x768</li> <li>• 4000 ANSI Lumens for Colour Light &amp; White -light Output Both or higher</li> <li>• Contrast Ratio : 20000: 1</li> <li>• Aspect Ratio : 4:3 and 16:9 both</li> <li>• Throw Ratio : 1.44 - L95: 1</li> <li>• Lamp life: Min.6000 Hrs. (Normal Mode) &amp; 12000 hrs.</li> <li>• I/O connection Mode: VGA, HDMI</li> <li>• OEM Warranty: 1 year</li> <li>• OEM should have direct presence in India for minimum 5 years.</li> </ul>	1
4	Projector Accessories	<ul style="list-style-type: none"> <li>• Mounting accessories</li> <li>• This mount should be used on flat ceiling.</li> <li>• Should have Strong Support - Crafted from premium quality and heavy duty steel to provide a reliable projector mount with maximum strength and support.</li> <li>• Should bear the minimum support weight: 12 kg</li> <li>• Adjustable - Features -15°to +15°tilt,</li> <li>• Roll: -8 to +8 degrees,</li> <li>• Can be installed as a Flush mount or Telescopic with height adjustment</li> <li>• Minimum distance from ceiling (w/o extension column): 4.7in/12cm.</li> </ul>	1

		• Projector screen /Mat finish White board	
5	Chairs	<ul style="list-style-type: none"> <li>• Material-Plastic,</li> <li>• Product Dimensions-56.5D x 41W x 86.5H Centimetres ,</li> <li>• Back Style</li> <li>• Should have Arm Rest</li> </ul>	20
6	Practical Arena	Rectangular table with 6inc walls, W96XD48XH30 inch (Optional) (Wooden Top-Iron Legs- optional)	2
7	Almirah	Size: 50"H x 30"W x 17 ' Depth	1
		• The Cup Board should be made of 26G.	
		• CRCA sheet with two door and two fixed shelves.	
		• The pedestal should be of 3" height.	
8	Refurbishment of Lab	Asian plastic Paint with High-quality paint more evenly to create a smoother finish in all walls and top with repair of walls with putti and In Electrical fittings 4 power point on walls with 2 socket and one socket for Projector	1
9	Branding/Postering	Banners in lab for the ATL 4 poster and 3 banners and with safety banners, signage etc	1

### LaserJet Monochrome Printer Specifications

TECHNICAL SPECIFICATIONS		
S. N.	Parameter	Specification
1	Printer Type	LaserJet Monochrome
2	Print Technology	Laser
3	Functions	Print only
4	Print Speed (A4)	Minimum 18 ppm or higher
5	Print Resolution	600 x 600 dpi or higher
6	Duty Cycle (Monthly)	Minimum 5,000 pages
7	Connectivity	USB 2.0 or higher
8	Compatible Operating Systems	Windows 8/10/11, Linux, macOS
9	Certifications	BIS Certified
10	Warranty	Minimum 1 year onsite warranty

TECHNICAL COMPLIANCEATL equipment package (As per Niti Aayog):Package 1: Electronics Development, Robotics, Internet of Things and Sensors

Category	Name	Specification	Quantity	Compliance (Yes/No)
Electronics Development	Arduino Uno or equivalent	ATmega328P - 8 bit AVR family microcontroller, equivalent or better.	30	
		Operating Voltage: 5V		
		Digital I/O Pins: 14 (of which 6 provide PWM output)		
		PWM Digital I/O Pins : 6		
Electronics Development	Arduino Nano or equivalent	ATmega328P - 8 bit AVR family microcontroller, equivalent or better.	10	
		Operating Voltage: 5V		
		Digital I/O Pins : 14 (of which 6 provide PWM output)		
		PWM digital I/O Pins: 8		
Electronics Development	Arduino Mega or equivalent	ATmega 2560P - 8 bit AVR family microcontroller, equivalent or better.	10	
		Operating Voltage: 5V		
		Digital I/O Pins : 54 (of which 6 provide PWM output)		
		Analog Input Pins: 16		
Electronics Development	Raspberry Pi 3 Model B+	RASPBERRY PI 3 MODEL B+, equivalent or better	5	
		Accessories - MicroSD card - 32 GB, USB 3.0 cable (1 meter), HDMI to VGA - 1 meter, HDMI		

Category	Name	Specification	Quantity	Compliance (Yes/No)
		to VGA adapter, Case shell enclosure		
Electronics Development	Breadboards & Mini Breadboard	Solderless 400 pin breadboard	30	
		Solderless 800 pin breadboard	20	
		Self-Adhesive Proto Shield	20	
Electronics Development	General Purpose solderable Board	FR2 A Grade Material (140 x 90 mm)	30	
		FR2 A Grade Material (80 x 55 mm)	30	
	Berg Strips	Female Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin	30	
		Male Berg Strip, 2.54mm pitch, 40 pin single row, breakable pin	30	
Electronics Development	16x2 LCD display	Dot matrix LCD display. 16 characters X 2 lines. I2C	20	
Electronics Development	USB Cables	USB Cable Set (A to B, 12 inch or more)	10	
Electronics Development	USB Cables	USB Cable Set (Mini, 12 inches or more)	10	
Electronics Development	Battery	9-12V 2000 to 2500 mAh rechargeable battery with 2 chargers. Equivalent or better	10	
Electronics Development	Resistor Kit	One kit contains - 30 carbon film resistors of 20 different resistance values each assorted, packaged together and labelled.	20	
		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	
		Assorted kit packaged together and labelled.		
		Values: 10pF, 22pF, 100pF, 1nF, 10nF, 100nF, 1μF, 10μF, 100μF, 1000μF		

Category	Name	Specification	Quantity	Compliance (Yes/No)
Electronics Development	Linear Voltage Regulator	7805, 7812,7809	30	
Electronics Development	Water Pump module	DC12V 3W Submersible Water Pump	4	
Electronics Development	Piezoelectric Plate	Normal Copper based 4 cm Diameter approx.	30	
Electronics Development	8*8 LED Matrix Module	Max7219 Dot LED Matrix Module. MCU Control LED Display Module	10	
Electronics Development	Bluetooth module	HC 05 Bluetooth module Voltage Rating: 5 V	15	
Electronics Development	7 Segment Led Display	LED 4-Digit Display Module Voltage Rating: 2.4V to 5.5V 4-Pin interface: Vcc, Gnd, Data, Clock	20	
Electronics Development	GSM	Sim900 GPRS Transfer Board Micro Sim Gsm Core TTL Port Module for Arduino	4	
Electronics Development	GPS	GY-NEO6MV2 new GPS module	4	
Electronics Development	Laser Diode Emitter	650 nm 5mW Mini Laser Dot Diode Module	10	
Electronics Development	LDR Module	5mm/12mm, Photosensitive LDR Light Sensor Module	30	
Electronics Development	Keypad	Universal 16 Key Switch Keypad	10	
Electronics Development	JoyStick	2-axis joystick with push button function	10	
Electronics Development	Active Buzzer	Small 5 volt Big 5 volt	40 40	
Electronics Development	Motor driver Module	L293D	10	
Electronics Development	Sound Playback Module	ISD1820 voice recording module or equivalent	10	
Electronics Development	DC Plastic Gear motor with wheel	12V, 150RPM, Side Shaft BO (Battery operation) Motor	40	
Electronics Development	Node MCU	ESP 8266 I2C, 1 wire, plug and play	6	
Electronics Development	WeMos D1 R2	WeMos D1 R2 with WiFi ESP 8266	6	

Category	Name	Specification	Quantity	Compliance (Yes/No)
		Operating Voltage: 5V		
Electronics Development	Vibrating Motor	Weight: 10 Grams	20	
		Operating Voltage: 1.5 to 3V		
Electronics Development	Alligator Connectors	Multi-Colour Alligator Connectors - 12 inch	200	
Electronics Development	Battery clips with DC Jack	9-volt battery clips with DC Jack	40	
Electronics Development	Hook-up Wires	Red & Black set 100 Meters each	4	
Electronics Development	Jumper Cable	Male-Male	1000	
		Male-Female	600	
		Female-Female	400	
Electronics Development	RGB LEDs	Regular 5mm 3-5 volt Range	400	
Electronics Development	LEDs (Red)	Regular 5mm 3-5 volt Range	1000	
Electronics Development	LEDs (Green)	Regular 5mm 3-5 volt Range	1000	
Electronics Development	LEDs (Blue)	Regular 5mm 3-5 volt Range	1000	
Electronics Development	LEDs (Yellow)	Regular 5mm 3-5 volt Range	1000	
Electronics Development	LEDs (White)	Regular 5mm 3-5 volt Range	1000	
Electronics Development	Timer IC - LM 555	LM 555 Timer IC.	30	
		Voltage range - 4.5V to 16V		
Electronics Development	Atmega16u2	8 bit microcontroller Individual IC (DIP).	10	
		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	
		Types: NPN Transistor - 2N3904, BC547 PNP Transistor- 2N3906, BC557 Silicon Diode- 1N4148, Power Diode - 1N4004/4001.		
		Equivalent or better.		
		Wattage: 1W, Current rating: 1A		

Category	Name	Specification	Quantity	Compliance (Yes/No)
		Assorted kit packaged together and labelled.		
Electronics Development	Button Switch Set	One Kit Contains - 100 buttons of different types.	3	
		Types: Push, toggle, rotary, selector and slide switch.		
		Assorted kit package together and labelled.		
Electronics Development	Capacitive touch Module	MPR 121 with I2C.	20	
		Voltage Range:		
		2.5V to 3.6V DC.		
Electronics Development	Capacitive Touch Switch Module	Digital Capacitive touch switch module -TTP223B	10	
		Voltage Range: 2V to 5V DC.		
Internet of Things & Sensors	IR Sensors, Obstacle avoider sensor module	LM393	20	
		Detection distance:		
		2 - 30 cm		
		Detection angle: 30 - 40°		
Internet of Things & Sensors	Triple Axis Magnetometer	3-Axis Magneto resistive Sensors	10	
		I2C Digital Interface		
		Integrated 12-bit ADC		
		Range of -8 to +8 Gauss		
		160 Hz Maximum o/p rate		
Internet of Things & Sensors	Humidity Sensor	Operating range:	10	
		20 – 95 % RH		
		Temperature: 0 - 60 Celsius		
		Power supply:		
		1.5V AC (Max sine)		
		Operating frequency:		
500Hz - 2kHz				
Internet of Things & Sensors	MQ Series	MQ - 2 Smoke Detection	3	
		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	

Category	Name	Specification	Quantity	Compliance (Yes/No)
		MQ-8 Hydrogen Gas Sensor	3	
		MQ-135 Air Quality Sensor	3	
Internet of Things & Sensors	IR transmitter/ receiver	TSOP 1738	10	
		Switching rate: 38 KHz		
		Voltage Rating: 5V		
Internet of Things & Sensors	Ultrasonic Sensor Module HC-SR-04 or compatible	Working Voltage - DC 5V	40	
		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	
		Small, low profile package		
		4 mm × 4 mm × 1.45 mm LFCSP		
		Low Power: 350 µA (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	
		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	
Internet of Things & Sensors	Relay Module	5V 10A - 2 Channel Relay Module. Compatible with Arduino.	20	
Internet of Things & Sensors	Relay Module	5V 10A - 1 Channel Relay Module. Compatible with Arduino.	20	
Internet of Things & Sensors	Big Sound microphone module	Large Electret capsule sound module	10	
Internet of Things & Sensors	Big Sound microphone module	Large Electret capsule sound module	10	
		FC-28 with LM293 comparator	6	

Category	Name	Specification	Quantity	Compliance (Yes/No)
Internet of Things & Sensors	Soil Moisture Sensor module	Operating Voltage: 3.3V to 5V.		
Internet of Things & Sensors	Touch Sensor	Capacitive Touch Sensor Module. TTP22X series. Voltage Range: 2.4V to 5.5V	6	
Internet of Things & Sensors	Metal Touch Sensor Module	KY-036 or equivalent metal touch sensor module	6	
Internet of Things & Sensors	Rain Drop Sensor	Rain Sensitive, Rain Drop Detection Sensor Module. Voltage Range: 3.3V to 5.5V.	6	
		Size: 5mm X 40mm or equivalent.		
Internet of Things & Sensors	Flex Sensor	Flex Sensor. Size - 2.2 Inches	6	
Internet of Things & Sensors	Temperature Sensor	LM35 Full range temperature sensor. Voltage Range: 4V to 30V. Error: $\pm 0.5^{\circ}\text{C}$	6	
Internet of Things & Sensors	Temperature and humidity sensor module	DHT 11	40	
		Voltage Range: 3V to 5V		
Internet of Things & Sensors	Force Pressure Sensor	Force sensitive resistor with a square, 1.75x1.5" sensing area	4	
Internet of Things & Sensors	Colour Recognition Sensor	TCS3200 Colour Recognition Sensor	4	
Internet of Things & Sensors	Water Flow Sensor	Arduino Compatible Water flow sensor. 5V DC Input.	4	
Internet of Things & Sensors	Sound Sensor	Sound Sensor Module, Microphones module	10	
Internet of Things & Sensors	IR Sensors Array module for Line Following	8 IR Sensors Array module for Line Following	10	
		Operating Voltage: 5V		
Internet of Things & Sensors	Power Bank	10000 mAh 5-volt Power Bank	5	
		Current :13-26mA / DC 3.3V	10	

Category	Name	Specification	Quantity	Compliance (Yes/No)
Internet of Things & Sensors	RFID Reader – Tags	Idle Current :10-13mA		
		Sleep Current<80uA		
		Peak Current<30mA		
		Operating Frequency: 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	
		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	
Robotics	DC motor	12V DC Gear 150 RPM	20	
Robotics	Servo motors	Position Servo Angle based Metal Gear	10	
		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	
Robotics	L298P Motor Driver	L298P Motor Driver Shield or relative Driver Shield	10	
Robotics	Servo Motor Tester	CCPM 3 channel Servo Tester	4	
DIY Kit	Robotics DIY Kit	Robotics DIY kit with programmable intelligent brain/brick.	3	
DIY Kit	Mechanical (Modular) Construction kit	Metal/plastic mechanical construction kit compatible with electronic equipment.	5	
STEM Learning/App lication Kit	Drone Kit	Educational Purpose	1	
	Aerospace Kit		1	
	Automobile Kit		1	
	Bio-Medical Kit		1	

Category	Name	Specification	Quantity	Compliance (Yes/No)
	Agri-Tech Kit		1	
	Water/ Sanitation Kit		1	
	Bio Tech Kit		1	
	Other Potential STEM Application Kit		1	

**Package 2: Rapid Prototyping Tools (Per ATL Lab)**

Category	Name	Description	Quantity	Compliance (Yes/No)
Rapid Prototyping Tools	3D Printer Kit and tools	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 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	
Rapid Prototyping Tools	Dedicated UPS/Power back up	Dedicated UPS/Power Back up with 2-hour battery backup.	1	
Rapid Prototyping Tools	Filament for 3D printer	Compatible 1000 Grams Filament in 5 different colours	5	
Rapid Prototyping Tools	Filament Storage Box	Compatible Filament storage box	5	
Rapid Prototyping Tools	Set of Arts & Crafts Accessories – e.g.-	Cardboard	5	
		Foam core boards	5	
		20m spool of thick strings various colour	5	

	stationary items and basic prototyping material	Rubber band	100	
		Popsicle sticks	100	
		Wood glue – 500 ml	2	

**Package 3: Mechanical, Electrical and Measurement tools (Per ATL Lab)**

Category	Name	Description	Quantity	Compliance (Yes/No)
Mechanical Tools	Mini Hacksaw Frame	Size: 6 inches	1	
Mechanical Tools	Mini Hacksaw blades	Size: 6 inches	10	
Mechanical Tools	Hacksaw	Size: 12 inches	1	
Mechanical Tools	Extra hacksaw blades	Size: 12 inches	10	
Mechanical Tools	Pliers: 4.5-inch size	External Straight	1	
		Nose Circlip Plier	1	
		Long Nose Plier	1	
		Combination Mini Plier	1	
		Wire stripping pliers	1	
		Bent nose plier	1	
Mechanical Tools	Tweezer Set	6 Pc Non-Magnetic Tweezer Set Size - 6 inches	2	
Mechanical Tools	Ball Pein Hammer	Ball Pein Hammer Weight - 0.75kg	1	
Mechanical Tools	Steel Shaft Claw Hammer	Claw Hammer Steel Shaft Weight - 0.75kg	1	
Mechanical Tools	C-Clamp	Metal Clamp: 3-inch size	4	
Mechanical Tools	Allen Key Set	10 Piece Ring Imperial Allen Hex key	1	
Mechanical Tools	Drill Machine Set	Drill Machine with accessories Hammer/Screw and clockwise/anticlockwise modes. Power: 500W Chuck capacity - 1 to 10 mm	1	

Category	Name	Description	Quantity	Compliance (Yes/No)
		Drill Bits - Masonry, Metal, Wood		
Mechanical Tools	Drilling Workstation	Drill Press, Drill Holder and Rotary Tool, Compatible with Drilling machine provided	1	
Mechanical Tools	Spanner Set	12-piece combination Spanner Set Range - 4 mm to 30 mm	1	
Mechanical Tools	Wire Strippers	Wire Stripper Cutter Plier With Spring -26x6x20 cm (LxWxH)	5	
Mechanical Tools	Vice Normal	Table top vice	1	
Mechanical Tools	Screwdriver	40 pc Multi-purpose screwdriver set	3	
Mechanical Tools	Adjustable Universal Multi Wrench Spanner	Adjustable Universal Wrench	2	
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	
Mechanical Tools	Air Blower	500 W or more. Variable speed blower	1	
Mechanical Tools	Drill Bit Set	High Quality 13 Pcs HSS Drill Bits Set for Wood, Iron, Aluminium, Plastic etc.	1	
Mechanical Tools	File set	6 pc file set Working length - 6 inch	1	
Mechanical Tools	Mini File set	6 pc mini file set Working length - 3 inch	1	
Mechanical Tools	Flexible Cutting Mat	A3 Size with Marked Pattern and Grids (18" X 12")	1	
Mechanical Tools	Plastic Storage Drawer/Organiser	Number of Drawers: 60 or equivalent Drawer size (l*w*d) (inch) : 2*2*5	2	

Category	Name	Description	Quantity	Compliance (Yes/No)
Mechanical Tools	Pegboard	Peg board System to mount tools on wall with attachments. Size: 3ft*2ft	2	
Electric Tools	Hot glue gun	Works with standard 0.5-inch glue sticks. Temperature - 230 to 280 degree Celsius.	4	
Electric Tools	Digital Oscilloscope	Minimum Bandwidth: 50 Mhz. Minimum number of channels: 2 channels. Sample Rate: 1Gsa/s With inbuilt waveform function generator.	1	
Electric Tools	Soldering Kit	Variable Wattage of Soldering Iron: 15-30 watts/230 volts 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)	4	
Electric Tools	Adapters	DC power Adapter with 5V, 2A	10	
Electric Tools	Adapters	DC power Adapter with 12V, 2A	10	
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	

Category	Name	Description	Quantity	Compliance (Yes/No)
Electric Tools	Dual Temperature Heat Gun	1800 W Dual Temperature Heat Gun	1	
Electric Tools	Soldering Helping hand	Adjustable crocodile holding clamps/clip. Soldering iron holder. LED light. Magnifying lens.	4	
Measurement Tools	Return measuring tape	Return measuring tape 5Mx19mm	2	
Measurement Tools	Stainless Steel Rule	Stainless Steel 12" / 150 mm Rule	5	
Measurement Tools	Digital Vernier Calliper	150 mm / 6" Digital Vernier Calliper	2	
Measurement Tools	Spirit Level	12" Spirit Level	1	
Measurement Tools	Digital Pen electric Tester	Voltage tester	1	
Measurement Tools	Digital Multi Meter	Digital Multi Meter Voltage Current Resistance-7 functions + 19 ranges to cover DC voltage 200mV to 1kV, AC voltage 200 V - 750 V, DC current 200 $\mu$ A - 10 A Resistance 200 -2 M Ohm and Transistor & diode test.	5	
Biology Kit	DIY Paper Microscope	DIY Paper microscope. Magnification range - 100x to 2000x	5	
Astronomy Equipment	Telescope	All glass optical components Altazimuth mount suitable for terrestrial and astronomical use minimum 700 mm focal length	1	
Textile Equipment Mechanical Tools	Sewing Kit Mini Hacksaw Frame	Semi-Automatic Sewing machine Straight stitch	1	

Category	Name	Description	Quantity	Compliance (Yes/No)
Mechanical Tools	Mini Hacksaw blades	Consumables - 2 set of assorted needles and 10-colour spool set Size: 6 inches Size: 6 inches		

**Package 4: Power Supply & Accessories and Safety Equipment:**

Category	Name	Description	Quantity	Compliance (Yes/No)
Power Supply & accessories	Glue Sticks	11 mm x 200mm Hot Melt Glue Stick	100	
Power Supply & accessories	Nuts and Bolts and screw	Specs - M4X12MM M4X20MM M5X16MM M5X25MM M6X20MM	40	
Power Supply & accessories	Cable Tie	Small Cable Tie Pack - Pack of 100	10	
		Medium Cable Tie Pack - Pack of 100	10	
		Big Cable Tie Pack - Pack of 100	10	
Power Supply & accessories	Sand Paper	Grit Values - 80, 100, 120, 200, 300. 5 Nos of each	10	
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	
Power Supply & accessories	Bulb Holders	Regular Hanging Bulb holder	10	
Power Supply & accessories	Electric Wires	Twisted Red black pair	20	
Power Supply & accessories	USB TO DC jack cable	USB to DC jack cable for Battery bank	10	
Safety equipment	First-Aid Kit	Standard Medical First Aid kit in portable container.	2	
Safety equipment	Fire extinguisher (handy units)	Powder Type Fire Extinguisher 2KG	2	

Category	Name	Description	Quantity	Compliance (Yes/No)
Safety equipment	Safety goggles (with/without LED torch)	Polycarbonate Safety goggles Clear lens with no tint	30	
Safety equipment	Safety Gloves Pairs	Latex Coating Gloves (Medium Size)	10	
Safety equipment	Safety Mask	Filtering efficiency ranging 80 percent when tested against 0.3-micron sodium chloride particle	20	

**Other Equipment, Refurbishment and Accessories (Per ATL Lab)**

**Laptop – 3 Quantity per ATL Lab**

S. No.	Component	Detailed Specifications	Compliance (Yes/No)
1	Processor	Intel i3 13th Gen /Ryzen R3 7000 Series or Higer	
2	RAM	8 GB RAM DDR 4 - 3200 Mhz or higher expandable to 64 GB (2 Physical DIMM),	
3	SSD/Storage	512 GB SSD or higher	
4	Graphics	Integrated Graphics,	
5	Monitor	Minimum 14 inch LED backlit 250 nits Full HD(1920 x 1080 resolution), Body to Screen ratio should be higher than 82%,	
6	External Webcam	HD webcam with Dual Microphone and Privacy camera shutter	
7	Ports	Port: HDMI One(1), Headphone /microphone Combo : One (1), Power connector-r One(1), Wi-Fi 6 enabled, 1 USB 3.2 Gen 2 and 1 USB 3.2 Gen 1, 1 x USB 3.2 Gen 1 (Type C Full functional with display transfer feature)	
8	Security	Hardware TPM 2.0, Security Lock Slot.	

9	Battery	3 cell with 6 hours or higher backup, 1 Year Comprehensive Warranty including with 1 years warranty on battery & adapter, reputed brand,	
10	Keyboard	Spill-resistant keyboard with Dedicated copilot button and Rupee symbol on the keypad.	
11	Body Type	Top and Bottom body should be Metal Body Minimum 50% build material should be metal/Aluminium	
12	Pre-installed Software	Pre-install OEM Own Manageability Tool/Software for Asset Management, Patch Management, Power Management Settings, 3rd Party Application Deployment, Network Monitoring (OEM undertaking to be given)	
13	Certifications	CE, FCC/UL Compliance, ROHS, CB, BEE/Energy Star, EPR.	
14	Weight	Less than 1.50 kg	
15	Operating System	OEM factory preloaded Windows 11 Home (OEM undertaking to be given)	
16	Certifications	ISO9001, ISO14000, ISO 20000, ISO 27000	

**Interactive Flat Panel with UPS (Power Backup)– 1 Quantity per ATL Lab**

S. No.	Component	Parameters	Detailed Specifications	Compliance (Yes/No)
1	Screen Size & Features	Size	65" Interactive Touch Screen	
		Resolution	3840(H) ×2160 (V) IPS Screen (DLED Backlit)	
		Display Color	1.07Billion Colors (10bit)	
		Brightness	400cd/m2*	
		View Angle	R/L 178 (Min.), U/D 178 (Min.)	
		Aspect Ratio	16:9	
2	Sound/speaker feature	speaker output	20W × 2	
3	Inputs & Outputs	HDMI Input	3 X IN	
		Type C	2	
		Multi-Media USB	USB 2.0 and 3.0 or higher	
		RS232	1	
		RJ-45	2 (RJ45 IN X 1   RJ45 Out X 1)	
		Touch input	2	
		Bluetooth	BT 5.0 or higher	
		WIFI	WIFI 6E	
		VGA in	1	
		Line In/Out	1	
4	Touch screen	Touch Resolution	32768x32768	
		Cover Glass	Anti-glare, Mohs 7 Hardness 9	
		Touch Accuracy	1mm	
		Annotation Over Any Source	Yes	
		Response Time	<8ms	
		Pen & Touch Differentiation	Yes	
		Palm Detection	Yes	
		Pens Included	2 Stylus	

		<b>Compatibility</b>	Windows 11/ Linux/Android /Chrome	
5	<b>Processing Unit</b>	<b>Panel CPU</b>	MTK - A73	
		<b>OS Version</b>	ANDROID 14	
		<b>Flash</b>	64 GB EMMC	
		<b>RAM</b>	8 GB	
		<b>Touch</b>	40 points	
		<b>Write</b>	20 points	
6	<b>OPS PC (Optional)</b>	<b>OPS</b>	Intel Core i5, 10th Gen or better with 8GB Memory or higher and 256 SATA SSD or higher	
7	<b>Wall Mount</b>	<b>Yes</b>	VESA Standard (500 x 400mm)	
8	<b>Power</b>	<b>AC</b>	AC:100~240V 60/50HZ	
9	<b>Typical Power Watt</b>	<b>Yes</b>	≤240W	
10	<b>Power Saving or Sleep Mode</b>	<b>Yes</b>	≤0.5W	
11	<b>Accessories</b>	<b>Yes</b>	User manual, remote control, power cable, touch cables, HDMI cable, touch pens (2 stylus), , extendable Stylus - optional	

### 1 KVA Line Interactive UPS Specifications:

TECHNICAL SPECIFICATIONS				Compliance (Yes/No)
S.No.	Description	Requirement		
1	Capacity	1000VA higher		
	INPUT	Voltage Range	140V-300VAC	
		Frequency	50Hz ±10%	
3	OUTPUT	Voltage (Bat. Mode)	230V AC Nominal	
		Transfer Time	Typical 8 ms or less	
4	BATTERY	Battery Type	SMF (Sealed Maintenance Free)	
		DC V / AH / NOS.	(12V / 7AH) x 1 Battery or higher	
	Certifications	BIS		

5	<b>Features</b>	
	Voltage Stabilization	
	Protection against Overload, Discharge/ Overcharge.	
	Generator Compatibility	
	Cold Start Function	
	Warranty: Minimum 1 year onsite warranty	

**Other Accessories – 1 Quantity per ATL Lab**

S. N.	Category	Specifications	Compliance (Yes/No)
1	Speaker	USB powered 2.0 speaker that comes in a compact size with volume control; It has Aux Connectivity and it is USB Powered	
		Output power 5W RMS (2.5W x 2); Impedance 3Ω	
		Frequency response 120Hz-15kHz; Line input 3.5mm jack	
		1 Year warranty-from the date of purchase	
		Colour Name: Black	
2	Printer	Monochrome, Laser Printer	
3	Projector	<ul style="list-style-type: none"> <li>• DLP, Front &amp; Rear Both XGA 1024 x768</li> <li>• 4000 ANSI Lumens for Colour Light &amp; White -light Output Both or higher</li> <li>• Contrast Ratio : 20000: 1</li> <li>• Aspect Ratio : 4:3 and 16:9 both</li> <li>• Throw Ratio : 1.44 - L95: 1</li> <li>• Lamp life: Min.6000 Hrs. (Normal Mode) &amp; 12000 hrs.</li> <li>• I/O connection Mode: VGA, HDMI</li> <li>• OEM Warranty: 1 year</li> <li>• OEM should have direct presence in India for minimum 5 years.</li> </ul>	
4	Projector Accessories	<ul style="list-style-type: none"> <li>• Mounting accessories</li> <li>• This mount should be used on flat ceiling.</li> <li>• Should have Strong Support - Crafted from premium quality and heavy duty steel to provide a reliable projector mount with maximum strength and support.</li> <li>• Should bear the minimum support weight: 12 kg</li> <li>• Adjustable - Features -15°to +15°tilt,</li> <li>• Roll: -8 to +8 degrees,</li> <li>• Can be installed as a Flush mount or</li> </ul>	

		Telescopic with height adjustment • Minimum distance from ceiling (w/o extension column): 4.7in/12cm.	
4	Chairs	• Material-Plastic, • Product Dimensions-56.5D x 41W x 86.5H Centimetres , • Back Style • Should have Arm Rest	
5	Practical Arena	Rectangular table with 6inc walls, W96XD48XH30 inch (Optional) (Wooden Top-Iron Legs- optional)	
6	Almirah	Size: 50"H x 30"W x 17 ' Depth	
		• The Cup Board should be made of 26G.	
		• CRCA sheet with two door and two fixed shelves.	
		• The pedestal should be of 3" height.	
7	Refurbishment of Lab	Asian plastic Paint with High-quality paint more evenly to create a smoother finish in all walls and top with repair of walls with putti and In Electrical fittings 4 power point on walls with 2 socket and one socket for Projector	
8	Branding/Postering	Banners in lab for the ATL 4 poster and 3 banners and with safety banners, signage etc	

### LaserJet Monochrome Printer Specifications

TECHNICAL SPECIFICATIONS			
S. N.	Parameter	Specification	Compliance (Yes/No)
1	Printer Type	LaserJet Monochrome	
2	Print Technology	Laser	
3	Functions	Print only	
4	Print Speed (A4)	Minimum 18 ppm or higher	
5	Print Resolution	600 x 600 dpi or higher	
6	Duty Cycle (Monthly)	Minimum 5,000 pages	
7	Connectivity	USB 2.0 or higher	
8	Compatible Operating Systems	Windows 8/10/11, Linux, macOS	
9	Certifications	BIS Certified	
10	Warranty	Minimum 1 year onsite warranty	

### **Instructions to Bidders**

- 1.** Financial Bid shall be submitted with full price details.

Financial Bid shall contain only the prices duly filled in as per the format given in Schedule of Rates provided in the tender document. Price bid should not have any Commercial and/or Technical stipulation in addition to, what is already given in Part I – Technical bid.

Financial Bid Standard Form-1 shall be used for the preparation of the price quote according to the instructions provided.

- 2.** The bid shall be evaluated on total Price as shown in financial bid.
- 3.** The prices quoted by the bidder shall be fixed for the quantity mentioned for the duration of the contract.
- 4.** The changes displayed in the corrigendum/addendum to the bid documents, particularly with the financial bid should be attached with the **Financial Bid Submission Form**, in the same packet, duly signed and stamped by the authorized signatory of the Bidder firm.
- 5.** The financial bid form-1 along with financial bid submission form should be filled in all respect and uploaded in **.PDF** format (only) duly signed and sealed by the authorized representative. In case, the financial bid documents are not complete in all respect the same should be treated as incomplete at financial bid stage and shall be considered non-responsive.

# BID DOCUMENT

## NATIONAL COMPETITIVE BIDDING

### SELECTION OF SYSTEM INTEGRATOR FOR “SUPPLY, INSTALLATION AND COMMISSIONING OF ATL LABS IN GOVERNMENT SCHOOLS”

TENDER NO.: EdCIL/DES/ATL/2025/007

Dated: 18.12.2025

Part 2 – Financial Bid



Education • Innovation • Transformation

**CIN No. U74899DL1981GOI011882**

EdCIL (India) Limited

A Govt. of India Category-I Mini Ratna CPSE

EdCIL House, Plot No. 18A, Sector 16A,

Noida-201301 (U.P.) India

Tel: 0120 – 2512001-006, FAX: 0120-2515372

Reg. Office: 7th Floor, Amba Deep Building,

14 KG Marg, New Delhi-110001

**Financial bid submission form**

To:

**Chief General Manager (DES)  
EdCIL (India) Limited  
EdCIL House, 18 A, Sector-16 A  
NOIDA – 201301 (U.P.)**

Dated: \_\_/\_\_/2025

Dear Sir,

We, the undersigned, offer to “**Supply, Installation and Commissioning of ATL Labs In Government Schools**” in accordance with your request for proposal dated \_\_/\_\_/2025.

Our attached Financial Bid for “Selection of System Integrator for “**Supply, Installation and Commissioning of ATL Labs In Government Schools**” is for the amount of \_\_\_\_\_ *[Indicate the corresponding to the amount(s), currency (ies) {Insert amount(s) in words and figures}]*.

Please note that all amounts shall be the same as in Form-1. Our Financial Bid shall be binding upon by us subject to the modifications resulting from Contract negotiations, if any, up to expiration of the validity period of the Proposal.

Yours sincerely,

Authorized Signature {In full and initials}:

Name and Title of Signatory:

In the capacity of:

Address:

E-mail:

## FORM: 1

**Subject:** Selection of System Integrator for “Supply, Installation and Commissioning of ATL Labs In Government Schools”

**Name of the Owner Individual/ Firm:** .....

S. No.	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)	Total Cost =A*D (In Rs.)
1	Package 1	01					
2	Package 2	01					
3	Package 3	01					
4	Package 4	01					
5	Laptop or equivalent	03					
6	Interactive Flat Panel/ Projector or equivalent	01					
7	Accessories for Projector/ Interactive Panel or better	01					
8	1 KVA Line-Interactive UPS	01					
9	Printer (Monochrome, Laser Printer)	01					
10	Steel Almira/Wooden/ Steel Storage Box including chairs or equivalent	01					
11	Refurbishment of Lab in terms of electrical fittings, painting, whitewash, etc.	01					
12	Printing of banner/board, signage etc. in consultation with the schools	01					
13	Warranty/AMC Cost for 2 <sup>nd</sup> Year (As per scope of work defined in tender document)	01					
14	Warranty/AMC Cost for 3 <sup>rd</sup> Year (As per scope of work defined in tender document)	01					
15	Comprehensive AMC Cost for 2 <sup>nd</sup> Year	01					

	(As per scope of work defined in tender document)						
16	Comprehensive AMC Cost for 3 <sup>rd</sup> Year (As per scope of work defined in tender document)	01					
17	Comprehensive AMC Cost for 4 <sup>th</sup> Year (As per scope of work defined in tender document)	01					
18	Comprehensive AMC Cost for 5 <sup>th</sup> Year (As per scope of work defined in tender document)	01					
Total per ATL Lab (Incl. Taxes), (A)							
No. of Labs, (B)							57
Total for 57 ATL Labs (Incl. Taxes), (C = A x B)							

Total Project Value (Incl. Taxes) (In Words): \_\_\_\_\_

Note:

- The above prices shall be inclusive of all taxes, delivery charges and installation charges at the school level.
- Detailed School List will be provided to the Successful Bidder at the time of award of work order.
- The bi-furcated price as requested in form-2 shall be same as the total price quoted in form-1. In case of discrepancy between the total quoted price at (S.no1,2,3,4 in form-1) and bifurcated price in form-2 the financial bid will be summarily rejected.
- Applicable deduction on payment will be made for TDS/GST.
- Validity of Offer: The offer should remain valid at least for a period of 180 days to be reckoned from the date of bid opening.
- All other incidental charges relating to transportation of equipments at the site are included in the above prices.
- No amount towards TA / DA and lodging, boarding or incidental to execution of the project shall be paid.

Place:

Date:

Signature and Stamp of the Bidder

Name:

Designation:

## FORM: 2

**Package 1: Electronics Development, Robotics, Internet of Things and Sensors****Category:** Electronics Development

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
1.	Arduino Uno or equivalent	1				
2.	Arduino Nano or equivalent	1				
3.	Arduino Mega or equivalent	1				
4.	Raspberry Pi 3 Model B+	1				
5.	Breadboards & Mini Breadboard	1				
6.	General Purpose solderable Board	1				
	Berg Strips	1				
7.	16x2 LCD display	1				
8.	USB Cables	1				
9.	USB Cables	1				
10.	Battery	1				
11.	Resistor Kit	1				
12.	Capacitor Kit	1				
13.	Linear Voltage Regulator	1				

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
14.	Water Pump module	1				
15.	Piezoelectric Plate	1				
16.	8*8 LED Matrix Module	1				
17.	Bluetooth module	1				
18.	7 Segment Led Display	1				
19.	GSM	1				
20.	GPS	1				
21.	Laser Diode Emitter	1				
22.	LDR Module	1				
23.	Keypad	1				
24.	JoyStick	1				
25.	Active Buzzer	1				
26.	Motor driver Module	1				
27.	Sound Playback Module	1				
28.	DC Plastic Gear motor with wheel	1				
29.	Node MCU	1				
30.	WeMos D1 R2	1				

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
31.	Vibrating Motor	1				
32.	Alligator Connectors	1				
33.	Battery clips with DC Jack	1				
34.	Hook-up Wires	1				
35.	Jumper Cable	1				
36.	RGB LEDs	1				
37.	LEDs (Red)	1				
38.	LEDs (Green)	1				
39.	LEDs (Blue)	1				
40.	LEDs (Yellow)	1				
41.	LEDs (White)	1				
42.	Timer IC - LM 555	1				
43.	Atmega16u2	1				
44.	Diodes and Transistors Kit	1				
45.	Button Switch Set	1				
46.	Capacitative touch Module	1				

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
47.	Capacitive Touch Switch Module	1				

**Category:** Internet of Things & Sensors

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
1.	IR Sensors, Obstacle avoider sensor module	1				
2.	Triple Axis Magnetometer	1				
3.	Humidity Sensor	1				
4.	MQ Series	1				
5.	IR transmitter/ receiver	1				
6.	Ultrasonic Sensor Module HC- SR-04 or compatible	1				
7.	Triple Axis accelerometer-	1				

8.	PIR Motion Detector Module	1				
9.	Pulse Rate Heart Sensor	1				
10.	Relay Module	1				
11.	Relay Module	1				
12.	Big Sound microphone module	1				
13.	Big Sound microphone module	1				
14.	Soil Moisture Sensor module	1				
15.	Touch Sensor	1				
16.	Metal Touch Sensor Module	1				
17.	Rain Drop Sensor	1				
18.	Flex Sensor	1				
19.	Temperature Sensor	1				
20.	Temperature and humidity sensor module	1				
21.	Force Pressure Sensor	1				
22.	Colour Recognition Sensor	1				
23.	Water Flow Sensor	1				
24.	Sound Sensor	1				

25.	IR Sensors Array module for Line Following	1				
26.	Power Bank	1				
27.	RFID Reader – Tags	1				
28.	RF Modules Tx & Rx 315 MHZ ASK	1				

**Category: Robotics**

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
1.	Stepper motor with Driver board	1				
2.	DC motor	1				
3.	Servo motors	1				
4.	150 RPM BO Motor	1				
5.	L298P Motor Driver	1				
6.	Servo Motor Tester	1				

**Category: DIY Kit**

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
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1.	Robotics DIY Kit	1				
2.	Mechanical (Modular) Construction kit	1				

**Category:** STEM Learning/Application Kit

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
1.	Drone Kit, Aerospace Kit, Automobile Kit, Bio-Medical Kit, Agri-Tech Kit, Water/ Sanitation Kit, Bio Tech Kit, Other Potential STEM Application Kit	1				

**Package 2: Rapid Prototyping Tools (Per ATL Lab)****Category:** Rapid Prototyping Tools

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
1.	3D Printer Kit and tools	1				
2.	Dedicated UPS/Power back up	1				
3.	Filament for 3D printer	1				
4.	Filament Storage Box	1				

5.	Set of Arts & Crafts Accessories – e.g.- stationary items and basic prototyping material	1				
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**Package 3: Mechanical, Electrical and Measurement tools (Per ATL Lab)**

**Category:** Mechanical Tools

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
1.	Mini Hacksaw Frame	1				
2.	Mini Hacksaw blades	1				
3.	Hacksaw	1				
4.	Extra hacksaw blades	1				
5.	Pliers: 4.5-inch size	1				
6.	Tweezer Set	1				
7.	Ball Pein Hammer	1				
8.	Steel Shaft Claw Hammer	1				
9.	C-Clamp	1				
10.	Allen Key Set	1				
11.	Drill Machine Set	1				
12.	Drilling Workstation	1				
13.	Spanner Set	1				
14.	Wire Strippers	1				
15.	Vice Normal	1				
16.	Screwdriver	1				

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
17.	Adjustable Universal Multi Wrench Spanner	1				
18.	Cordless Rotary Multitool Set	1				
19.	Air Blower	1				
20.	Drill Bit Set	1				
21.	File set	1				
22.	Mini File set	1				
23.	Flexible Cutting Mat	1				
24.	Plastic Storage Drawer/Organiser	1				
25.	Pegboard	1				

**Category:** Electric Tools

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
1.	Hot glue gun	1				
2.	Digital Oscilloscope	1				
3.	Soldering Kit	1				
4.	Adapters 5V	1				
5.	Adapters 12 V	1				
6.	Electric Screw Driver Set	1				
7.	Dual Temperature Heat Gun	1				
8.	Soldering Helping hand	1				

9.	Return measuring tape	1				
10.	Stainless Steel Rule	1				
11.	Digital Vernier Calliper	1				
12.	Spirit Level	1				
13.	Digital Pen electric Tester	1				
14.	Digital Multi Meter	1				
15.	DIY Paper Microscope	1				
16.	Telescope	1				
17.	Sewing Kit Mini Hacksaw Frame Mini Hacksaw blades	1				

**Package 4: Power Supply & Accessories and Safety Equipment:**

**Category:** Power Supply & accessories

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
1.	Glue Sticks	1				
2.	Nuts and Bolts and screw	1				
3.	Cable Tie	1				
4.	Sand Paper	1				
5.	Power Strip Adaptors	1				
6.	Bulb Holders	1				
7.	Electric Wires	1				
8.	USB TO DC jack cable	1				

**Category:** Safety equipment

S.No	Particulars	Qty (A)	Unit Cost (in Rs.) (B)	GST (%)	GST (in Rs.) (C)	Total Unit Cost (in Rs.) (D=B+C)
1.	First-Aid Kit	1				
2.	Fire extinguisher (handy units)	1				
3.	Safety goggles (with/ without LED torch)	1				
4.	Safety Gloves Pairs	1				
5.	Safety Mask	1				