

BID DOCUMENT

NATIONAL COMPETITIVE BIDDING

Selection of System Integrator for the Supply Installation, Commissioning and Training of 60 Science Centres, Science Kits and Robotics/AI/Coding Training in the schools of Jammu and Kashmir

TENDER NO.: EdCIL/DES/SC/SK/RACT/2026/002

Dated: 31.07.2026

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,
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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: 31.07.2026

N.I.T. No.: EdCIL/DES/SC/SK/RACT/2026/002

Name of work	Selection of System Integrator for the Supply Installation, Commissioning and Training of 60 Science Centres, Science Kits and Robotics/AI/Coding Training in the schools of Jammu and Kashmir
The Currency in which payment shall be made	Indian Rupees (INR)
Date of Issue/Publishing	31.07.2026
Pre-Bid Submission	Pre-bid queries should be emailed by 04.08.2026 till 17:00 Hrs as per Annexure XVII
Pre-Bid Meeting (Virtual Mode)	05.08.2026 12:00 Hrs
Last Date and Time for receipts of Bids	20.08.2026 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.
Date and Time of Opening of Technical Bids	20.08.2026 at 16:00 Hrs
Earnest Money Deposit	₹ 7,95,000.00/- EMD in form of Bank Guarantee / Demand Draft/ NEFT transfer. Scanned copy to be uploaded with tender documents and original BG/ DD/ NEFT details 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.
No. of Covers	02 (Two Packets)
Bid Validity days	180 days (From last date of opening of tender)
Performance Bank Guarantee (PBG)	5 % of the total work order value for each solution of the successful bidder. PBG is required to be submitted within 14 days from the date of issue of LOA as per Annexure-XI
Email Address	destenders@edcil.co.in
Corporate Office	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.		Contract form as per Annexure XII	

13.		Equipment Specification Compliance as per Annexure-XVI	.PDF
14.		Performa for declaration on proceedings under insolvency and bankruptcy code, 2016 Annexure-XVIII	.PDF
15.		Technical specifications as per Annexure XIX	.PDF
16.		Land border undertaking as per Annexure XXIII	.PDF
17.	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**

Term	Definition
Supplier	Successful/Selected bidder for “Supply Installation, Commissioning and Training of 60 Science Centres, Science Kits and Robotics/AI/Coding Training in the schools of Jammu and Kashmir”.
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	“ RFP ”/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) 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 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 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, ratana.thakur@etenderwizard.com, 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	Vendors Training Program: Vendors are requested to contact at Tender wizard Helpdesk Office for any information regarding E-tendering / training. a) For online registration, intended bidders may write us at harishkumar.kb@etenderwizard.com or contact no. 080-40482100/9964074577/9650520101. b) 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 Email:Id:- harishkumar.kb@etenderwizard.com, ratan.thakur@etenderwizard.com, varun.b@etenderwizard.com & cc to: destenders@edcil.co.in
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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 ₹ 7,95,000.00/- 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 list of bank from where the EMD is acceptable is placed at annexure XV.

Note: Bidders registered with MSE and having valid registration certificate issued by NSIC/MSE are exempted for submission of EMD. However, MSEs 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 Performance Bank Guarantee(s) 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:

In alignment with the vision of Samagra Shiksha and the transformative objectives of National Education Policy 2020, the Government of Jammu & Kashmir has undertaken an initiative for the Supply, Installation, Commissioning, and Training of 100 Science Centres, along with the provision of Science Kits and Robotics/AI/Coding training in schools. This intervention is aimed at strengthening experiential and competency-based learning by moving beyond traditional rote methods toward activity-based and inquiry-driven pedagogy.

The establishment of Science Centres and provision of curriculum-aligned Science Kits will enable students to engage in hands-on learning, experimentation, and practical understanding of scientific concepts. Simultaneously, the integration of Robotics, Artificial Intelligence, and Coding will introduce students to emerging technologies, fostering computational thinking, problem-solving abilities, and an innovation-driven mindset essential for the 21st century. These components together will transform schools into dynamic learning environments that encourage curiosity, creativity, and application-based learning.

A critical component of this initiative is the comprehensive training and capacity building of teachers to ensure effective utilization of the infrastructure and resources provided. Through structured training programmes and continuous handholding support, teachers will be empowered to integrate these tools into classroom teaching, thereby ensuring sustainability and long-term impact of the project.

Overall, this intervention is designed to be scalable, curriculum-aligned, and outcome-oriented, with a focus on enhancing student engagement, improving conceptual understanding, and building future-ready skills. Under the guidance and implementation support of EdCIL, this initiative will contribute significantly to strengthening the quality of school education in Jammu & Kashmir by creating innovative, inclusive, and technology-enabled learning ecosystems.

5.2 Objective

This initiative aims to strengthen the education ecosystem in the Union Territory of Jammu & Kashmir through the selection of a bidder for the Supply, Installation, Commissioning, and Training of 60 Science Centres, along with Robotics, AI, and Coding training across government schools under the Directorate of Samagra Shiksha, Government of Jammu & Kashmir. The intervention is designed to create modern, technology-enabled learning environments that promote experiential, activity-based, and inquiry-driven education.

Aligned with the vision of the National Education Policy 2020, the initiative focuses on strengthening STEM education by enabling hands-on learning through Science Centres, enhancing conceptual clarity through structured Science Kits, and introducing students to emerging technologies such as Robotics, Artificial Intelligence, and Coding. These components collectively aim to nurture scientific temper, computational thinking, problem-solving abilities, and innovation among students.

By integrating infrastructure development with capacity building and training, the project ensures that both students and teachers are equipped to effectively utilize these resources. The initiative ultimately seeks to enhance student engagement, improve learning outcomes, and develop essential 21st-century skills, thereby preparing learners for future academic pursuits and evolving career pathways.

5.3 Estimated Quantities

EdCIL intends to procure following components for implementation in government schools as per client(s) requirement.

S. no.	Components	Physical Units
Solution I		
1	Science Centers	60
Solution II		
2.	Robotics Training	237
3.	AI and Coding Training	120
Solution III		
4.	Science kit	4511 Units

Note: EdCIL reserves the right to increase or decrease the quantity to be ordered up to 100 % of bid quantity based on client(s) requirement.

Solution: I

1. Establishment of 60 Science Centres

Objective

To establish fully functional 60 Science Centres in identified schools across J&K to promote innovation, design thinking, computational skills, and experiential learning among students of Grades 6–12.

Scope of Work

Site Assessment & Lab Planning

- Conduct site survey and readiness assessment of each school.

- Recommend minor refurbishment for functional setup.

Supply of Equipment & Infrastructure

- Science Centre Equipment (Physics, Chemistry & Biology Kits)
- Safety equipment (fire extinguisher, first aid kit, safety signage)
- Storage cabinets and essentials as per Annexure XIX

Installation & Commissioning

- Installation and functional testing of all equipment.
- Calibration of tools and devices.
- Demonstration of working condition to school authority.
- Submission of Installation Commissioning Report signed by School Head.

Training & Capacity Building

- 5-day structured student training
- 3-day teacher orientation program
- Provision of training manuals (Student & Teacher versions).
- Access to digital learning resources and LMS.

Maintenance & Support

- Minimum 1-year comprehensive warranty.
- Quarterly preventive maintenance visits.
- Helpdesk support with defined TAT.
- Replacement of defective equipment within stipulated time.

Deliverables

- School-wise supply & installation report
- Training attendance sheets
- Lab utilization plan
- Warranty & AMC documentation

Project Requirements:

- The bidder shall appoint a dedicated Project Coordinator to work in close coordination with EdCIL and the Client for overall project execution. In addition, SPOCs shall be deployed to ensure smooth operations and timely delivery.
- The bidder shall perform all services with due diligence, efficiency, and professional competence, following accepted best practices. Where applicable, undertakings from content providers, platform partners, or OEMs shall be submitted. The bidder shall act in the best interest of the Client and ensure compliance with approved scope and standards.
- EdCIL reserves the right to increase or decrease the scope or coverage up to $\pm 100\%$ during the contract period. In such cases, the quoted rates and terms shall remain applicable for additional or reduced quantities.
- EdCIL and/or the Client may conduct pre-implementation reviews of programme content, tools, and delivery plans. Any deficiencies identified shall be rectified by the bidder within the stipulated time, at no additional cost.

- The bidder shall ensure timely rollout of programme activities and distribution of materials, as applicable, across designated schools or locations. Completion certificates from concerned school or block authorities shall be obtained and submitted as part of project documentation.
- Any non-compliance, substandard delivery, or deviation from approved specifications shall be rectified by the bidder at its own cost and risk, without financial liability to EdCIL or the Client.

SLA and Penalties

All activities related to the design, supply, installation, commissioning, training, and documentation of Science Centres, and Robotics/AI/Coding components shall be completed strictly within the timelines defined in the approved implementation plan.

- The bidder shall ensure timely procurement, delivery, installation, and commissioning of all Science Centres, and associated equipment at designated schools.
- The bidder shall ensure completion of training programmes for teachers and students, including submission of training reports and attendance records within stipulated timelines.
- Proper documentation, including delivery challans, installation reports, geo-tagged photographs, and completion certificates, must be submitted as per defined timelines.
- Any delay attributable to the bidder in supply, installation, commissioning, or training shall attract a penalty of ₹500 per day of delay.
- The total penalty shall be capped at a maximum of 10% of the total contract value.
- Upon reaching the maximum penalty limit, EdCIL (India) Limited reserves the right to take appropriate action, including termination of the contract.

Solution: II

1. AI & Robotics Training for 237 Schools

Objective

To equip students of Grades 8–12 across 237 schools in J&K with foundational and intermediate AI & Robotics skills, fostering innovation, problem-solving ability, and future career readiness.

Scope of Work

Training Model

Student Training

- Structured AI & Robotics curriculum (Basic to Intermediate Level)
- Hands-on modules including:
 - Introduction to AI concepts
 - Machine Learning basics
 - Robotics fundamentals
 - Sensors & Actuators

- Coding (Scratch/Python-based)
- IoT integration basics
- Minimum 30 hours of student engagement per school.

Teacher Capacity Building (Centralized Model)

- 5-day online/offline training for teachers from 394 schools.
- Coverage:
 - AI fundamentals
 - Robotics programming
 - Classroom integration strategies
 - Safety & lab management
- Training kits & resource materials provided.

Refresher Training

- 3-day online refresher training after 6 months.
- Review of implementation challenges.
- Advanced project mentoring.
- Best practice sharing & peer learning.

Learning Resources

- Project-based learning modules.
- LMS access with digital content.
- Assessment rubrics & evaluation tools.

Hackathons & Innovation Events

- Online Robotic Quizzes & hackathons.
- Thematic innovation challenges.
- Mentorship support.
- Certification & awards for top projects.

Monitoring & Evaluation

- Pre & Post training assessment.
- Skill benchmarking.
- Attendance tracking.
- Impact assessment report submission.

Technical Support

- Remote mentoring support for 6 months.
- Troubleshooting support.
- Periodic virtual review meetings.

Deliverables

- Training schedule & completion report.
- Teacher certification records.

- Hackathon event report.
- School-wise AI & Robotics implementation summary.
- Impact & outcome report.

2. AI & Coding Training in selected 120 Secondary/Senior Secondary Schools of Jammu & Kashmir

- The scope of work primarily focuses on conducting training workshops on the subjects of AI & Coding in the selected 120 Secondary/Senior Secondary Government Schools of Jammu & Kashmir, encompassing procurement deployment of Learning Management system with structures lesson plans for AI & Coding, capacity-building training for teachers, and associated management support.
- Comprehensive User Manuals and Learning Resources: Provide detailed user manuals, instructional guides, troubleshooting documents, quick-start guides, and project-based activity resources, carefully aligned with the curriculum for effective integration into classroom teaching.
- Detailed Documentation and Record Maintenance: Maintain thorough documentation on procurement status, dispatch logs, pre-delivery inspection reports, delivery acknowledgment receipts from schools, and warranty documentation.
- Teacher Capacity Building and Training: Conduct centralized training workshops (minimum one teacher per school) for 3 days covering foundational and advanced skills in AI & Coding, effective usage of supplied kits, pedagogical integration strategies, troubleshooting, and best practices.
- Deployment of Learning Management system with structures lesson plans for AI & Coding. The LMS will be integrated with VSK of the dept. for the mapping of live learning outcomes.
- Technological Compliance and Standards: Ensure all content provided for AI & Coding workshops reflect current educational standards, technological advancements, and adhere strictly to curriculum requirements outlined by CBSE and NEP 2020.
- Management and Coordination: Ensure professional project management support, maintaining effective coordination among stakeholders, timely issue resolution, and regular communication with the education department.
- Feedback and Monitoring Mechanism: Implement structured feedback collection mechanisms from teachers and schools, including periodic monitoring and evaluation to assess usage, effectiveness, and impact of AI & Coding training Workshop on student learning outcomes.
- Responsibility of School Authorities: School authorities will be responsible for classroom readiness, infrastructural arrangements, electrical connections, and safe storage of kits.

- **Reporting and Documentation:** Submit detailed periodic progress reports, training session records, usage insights, success stories, and best practices documentation to the education department as part of the overall project implementation and evaluation.
- **Monthly Online Training & Assessment of Students through Quizzes and Assignment** for enhancing the skills of the School Students.

Day	Session Topics	Duration	Objective & Key Sub-Topics	Activities
Day 1	Foundations of AI & Python Programming	6–7 hours	• Introduction to Coding & AI • Types of AI: Narrow, General, Super AI vs ML vs DS • Data Science: AI Applications in Education • AI Project Lifecycle: problem identification, data collection, model design • Python Basics: variables, functions, loops, conditionals • Data Types: lists, tuples, dictionaries, sets	• Icebreaker: “AI Around Me” • Write basic Python programs Print 0–n (input) • Group discussion: Identify AI use cases in schools • Group activity: Frame an AI project (e.g., student performance predictor) • Lab task: Prime number finder using loops and conditions
Day 2	Data Handling, Machine Learning & AI Tools	6–7 hours	• Data Handling with Python: cleaning, sorting, filtering • Working with CSV & Data Frames • ML Basics: Supervised vs Unsupervised learning • Algorithms: Linear Regression, Decision Tree • Intro to Computer Vision: grayscale, edge detection • NLP Basics: tokenization, stemming, BoW	• Python activity: Create student record manager • ML task: Manual classification of student pass/fail • Hands-on: Load image using OpenCV and apply grayscale & edge detection • NLP task: Clean and tokenize text with Python • Mini-group project integrating ML or NLP logic

Day 3	Ethics, Evaluation & Capstone Projects	6–7 hours	• AI Ethics: Bias, Fairness, Privacy Responsible AI Practices • Evaluation (coding tasks + scenario-based questions) Capstone Project Creation • Project Presentation & Peer Feedback	• Group discussion: AI bias in recruitment – Essay writing • “What Responsible AI Means to Me” • Hands-on coding evaluation Develop & present an AI project (e.g., chatbot, attendance tracker) - Peer review and certificate distribution
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Technical Specifications

The technical specifications for Science Centres 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.

Quality Compliance

- All supplied materials must be new, unused, and free from manufacturing defects.
- The agency shall ensure compliance with applicable safety and quality standards.
- The client reserves the right to inspect and verify the kits before dispatch and/or after delivery.
- Any damaged, missing, defective, or non-compliant items shall be replaced by the vendor at no additional cost.

Packaging

- Kits shall be securely packed to prevent damage during transportation and handling.
- Packaging should include:
 - Kit identification label
 - Zone details
 - Quantity details
 - Handling instructions (if applicable)
- Each package shall include a packing list mentioning the contents of the kit.

Transportation & Delivery

- The agency shall be responsible for transportation and delivery of kits to designated zonal locations.
- Delivery shall include loading, unloading, and safe handling of materials.
- The agency shall coordinate with designated nodal persons for delivery scheduling.
- All transportation costs, insurance, manpower, and logistics shall be borne by the vendor.

Project Requirements:

- The bidder shall appoint a dedicated Project Coordinator to work in close coordination with EdCIL and the Client for overall project execution. In addition, SPOCs shall be deployed to ensure smooth operations and timely delivery.
- The bidder shall perform all services with due diligence, efficiency, and professional competence, following accepted best practices. Where applicable, undertakings from content providers, platform partners, or OEMs shall be submitted. The bidder shall act in the best interest of the Client and ensure compliance with approved scope and standards.
- EdCIL reserves the right to increase or decrease the scope or coverage up to $\pm 100\%$ during the contract period. In such cases, the quoted rates and terms shall remain applicable for additional or reduced quantities.
- EdCIL and/or the Client may conduct pre-implementation reviews of programme content, tools, and delivery plans. Any deficiencies identified shall be rectified by the bidder within the stipulated time, at no additional cost.
- The bidder shall ensure timely rollout of programme activities and distribution of materials, as applicable, across designated schools or locations. Completion certificates from concerned school or block authorities shall be obtained and submitted as part of project documentation.
- Any non-compliance, substandard delivery, or deviation from approved specifications shall be rectified by the bidder at its own cost and risk, without financial liability to EdCIL or the Client.

SLA and Penalties

All activities related to the design, supply, installation, commissioning, training, and documentation of Science Centres, and Robotics/AI/Coding components shall be completed strictly within the timelines defined in the approved implementation plan.

- The bidder shall ensure timely procurement, delivery, installation, and commissioning of all Science Centres, and associated equipment at designated schools.
- The bidder shall ensure completion of training programmes for teachers and students, including submission of training reports and attendance records within stipulated timelines.
- Proper documentation, including delivery challans, installation reports, geo-tagged photographs, and completion certificates, must be submitted as per defined timelines.
- Any delay attributable to the bidder in supply, installation, commissioning, or training shall attract a penalty of ₹500 per day of delay.
- The total penalty shall be capped at a maximum of 10% of the total contract value.
- Upon reaching the maximum penalty limit, EdCIL (India) Limited reserves the right to take appropriate action, including termination of the contract.

Solution: III

1. Supply of Science Kits

- Supply a total quantity of 4,511 Science Kits.
- Kits must strictly comply with technical specifications, and quality standards shared by the client.
- Each kit shall contain all components, tools, consumables, manuals, and accessories as specified.

- No substitution of items/materials shall be permitted without prior written approval from the client.

Technical Specifications

The technical specifications for Science kits 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.

Quality Compliance

- All supplied materials must be new, unused, and free from manufacturing defects.
- The agency shall ensure compliance with applicable safety and quality standards.
- The client reserves the right to inspect and verify the kits before dispatch and/or after delivery.
- Any damaged, missing, defective, or non-compliant items shall be replaced by the vendor at no additional cost.

Packaging

- Science kits shall be securely packed to prevent damage during transportation and handling.
- Packaging should include:
 - Kit identification label
 - Zone details
 - Quantity details
 - Handling instructions (if applicable)
- Each package shall include a packing list mentioning the contents of the kit.

Transportation & Delivery

- The agency shall be responsible for transportation and delivery of kits to designated zonal locations.
- Delivery shall include loading, unloading, and safe handling of materials.
- The agency shall coordinate with designated nodal persons for delivery scheduling.
- All transportation costs, insurance, manpower, and logistics shall be borne by the vendor.

Project Requirements:

- The bidder shall appoint a dedicated Project Coordinator to work in close coordination with EdCIL and the Client for overall project execution. In addition, SPOCs shall be deployed to ensure smooth operations and timely delivery.
- The bidder shall perform all services with due diligence, efficiency, and professional competence, following accepted best practices. Where applicable, undertakings from content providers, platform partners, or OEMs shall be submitted. The bidder shall act in the best interest of the Client and ensure compliance with approved scope and standards.

- EdCIL reserves the right to increase or decrease the scope or coverage up to $\pm 100\%$ during the contract period. In such cases, the quoted rates and terms shall remain applicable for additional or reduced quantities.
- EdCIL and/or the Client may conduct pre-implementation reviews of programme content, tools, and delivery plans. Any deficiencies identified shall be rectified by the bidder within the stipulated time, at no additional cost.
- The bidder shall ensure timely rollout of programme activities and distribution of materials, as applicable, across designated schools or locations. Completion certificates from concerned school or block authorities shall be obtained and submitted as part of project documentation.
- Any non-compliance, substandard delivery, or deviation from approved specifications shall be rectified by the bidder at its own cost and risk, without financial liability to EdCIL or the Client.

SLA and Penalties

All activities related to the design, supply, installation, commissioning, training, and documentation of Science kits components shall be completed strictly within the timelines defined in the approved implementation plan.

- The bidder shall ensure timely procurement, delivery, installation, and commissioning of all Science Kits and associated equipment at designated schools.
- The bidder shall ensure completion of training programmes for teachers and students, including submission of training reports and attendance records within stipulated timelines.
- Proper documentation, including delivery challans, installation reports, geo-tagged photographs, and completion certificates, must be submitted as per defined timelines.
- Any delay attributable to the bidder in supply, installation, commissioning, or training shall attract a penalty of ₹500 per day of delay.
- The total penalty shall be capped at a maximum of 10% of the total contract value.
- Upon reaching the maximum penalty limit, EdCIL (India) Limited reserves the right to take appropriate action, including termination of the contract.

5.4 Warranty

1. A warranty period of 1 (one) year shall commence from the last date of completion of supply, covering all manufacturing defects.
2. Need-based onsite service support shall be provided at all project locations
3. Any defect or maintenance issue reported during the warranty period must be rectified within 21 calendar days.
4. In case of delay in rectification, the applicable penalty may be recovered either directly from the bidder or through deductions from the amount withheld in the final installment

5.5 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.

5.6 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.

5.7 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.

5.8 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 60 calendar days from the date of placement of purchase order.
- II. The successful bidder to provide absolute supply and Commissioning schedule within 07 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.

5.9 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 equipments to the school level/end client location/location provided by EdCIL and its subsequent installation in the classrooms.

5.10 Final Acceptance Sign off from End Client

Against the Delivery cum Installation and Commissioning or training completion respectively of the Science Centers, Robotics Training, AI and Coding Training and Science kit 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.

5.11 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.

5.12 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.

5.13 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.

5.14 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:

S. No.	Document	Specific Requirement	Documentary Evidence
1.	Legal Entity	The bidder should be a company registered under in India under Companies Act, 1956 and 2013 or Partnership Firm with their registered office in India and should have been in operation for at least last 5 years as on the date of submission of the bid. Consortium of companies/ firms is not allowed. For MSME/NSIC Registered bidder/Startups The bidder should be a company registered under in India under Companies Act, 1956 and 2013 or Partnership Firm with their registered office in India and should have been in operation for at least last 4 years as on the date of submission of the bid. Consortium of companies/ firms is not allowed.	- Valid copy of certificate of incorporation and registration certificates. - Copy of GST registration. Copies of relevant certificates of registration income tax - Copy of Permanent Account Number (PAN)
2.	Financial Strength	Bidder must have minimum average annual turnover of Rs. 20 crores during the last three financial year i.e., 2022-23, 2023-24 and 2024-2025. And Bidder must be profitable and has positive net-worth in each of the last 3 financial year i.e., 2022-23, 2023-24 and 2024-2025. For MSME/NSIC registered bidder:	- Audited Profit and Loss Statement and Balance sheets for FY 2022-23, 2023-24 and 2024-2025. - Auditor Certificate clearly specifying the turnover along with Profit and Net-worth during the FY 2022-23, 2023-24 and 2024-2025. - MSME Bidder should produce valid registration certificate from NSIC/MSME.

S. No.	Document	Specific Requirement	Documentary Evidence
		Bidder must have minimum average annual turnover of Rs. 16 crores during the last three financial year i.e., 2022-23, 2023-24 and 2024-2025. And Bidder must be profitable and has positive net-worth in each of the last 3 financial year i.e., 2022-23, 2023-24 and 2024-2025.	
3.	Blacklisting	The bidder should not be blacklisted by any Central Government/ State Government/ PSU/ Government Bodies/ Autonomous Bodies/ Private Sector or court of law in the last 3 years.	The bidder shall furnish an undertaking duly attested by notary in a non-judicial stamp paper of value INR 100/- (Rupees One Hundred Only) as per Annexure IV
4.	Quality Certificates	The Bidder should have the following certificates: • ISO 9001 • ISO 14001 • ISO 20001 • ISO 27001	Self-Attested Copy of ISO certificates
5.	Experience	The bidder should have prior experience of the supply of Science Centre/ATL Lab in minimum 120 government school in a single work order in with in last 5 FY. For MSME/NSIC registered bidder: The bidder should have prior experience of the supply of Science Centre/ATL Lab in minimum 96 government school in a single work order in with in last 5 FY. Or Experience of successful implementation of AI & Robotics Training/ AI coding/ AI with in minimum 450 government school in a single work order in with in last 5 FY. For MSME/NSIC registered bidder:	Copy of work order/ MoU/ along with corresponding completion certificate or delivery certificate issued by government Both work order and the completion/delivery certificate must be in the name of bidder only Work order executed under a consortium will not be acceptable

S. No.	Document	Specific Requirement	Documentary Evidence
		Experience of successful implementation of AI & Robotics Training/ AI coding/ AI with in minimum 360 government school in a single work order in with in last 5 FY. Or The bidder should have prior experience of the supply of Science Kit/Education Learning Kit/ Teaching Learning Kit for minimum 10,000 Kits in a single work order in the last 5 FY For MSME/NSIC registered The bidder should have prior experience of the supply of Science Kit/Education Learning Kit/ Teaching Learning Kit for minimum 8,000 Kits in a single work order in the last 5 FY	
6.	Power Of Attorney	The Authorized Signatory signing the Bid on behalf of the bidder - should have the Power of Attorney duly authorized by the Board of Directors to sign the Bid.	Power of Attorney on Non-Judicial stamp paper as per Annexure VIII
7.	Insolvency	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 as per Annexure XVIII
8.	MAF	Manufacturers Authorization Form (MAF) Science Center Kit and Science Kit. The bidder should submit valid undertaking letter from the OEM for confirming that the proposed products meet the technical & functional requirements & also products quoted are of the latest version / specification and are not nearing end of life and OEM must not be under a declaration of ineligibility, banned, or blacklisted	• A letter of undertaking by manufacturer (OEM) should be submitted as per Annexure VII • Declaration on Rs. 100/- Non-Judicial Stamp with Notarized Affidavit must be submitted • Bidder must submit valid BIS Certificates.

S. No.	Document	Specific Requirement	Documentary Evidence
		by any State Government, Central Government, Government institutions, or PSUs in India for any reason as of the last date of bid submission. (OEMs of DIY kit in Labs: Packages should have valid BIS Certificate under category of Safety of Electric toys (For DIY kits) IS 15644:2006, Category C, Subcategory– 65)	

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 in operation in India for at least last 5 years as on the date of submission of the bid.	09 years and above: 15 Marks 7 years to less than 09 years: 10 Marks 5 years to less than 7 years: 5 Marks	15	Incorporation certificate to be submitted
2.	Bidder must have minimum average annual turnover of Rs. 20 crores during the last three financial year i.e., 2022-23, 2023-24 and 2024-2025.	30 Crores and above: 15 Marks 25 Crores and above but less than 30 Crore: 10 Marks 20 Crores and above but less than 25 Crore: 5 Marks	15	• Certificate from the Statutory Auditor or Chartered Accountant on Turn Over and Positive Net worth • Audited Balance Sheets and Profit & Loss statement for last three years i.e. 2022-23, 2023-24 and 2024-25.
3.	The bidder should have prior experience of the	More than 280 Schools: 20 Marks	20	Copy of the MoU/MoA/Work

	supply of Science Centre/ATL Lab in minimum 120 government school in a single work order in with in last 5 FY. OR	More than 200 Schools and up to 280 Schools: 15 Marks		Order along with the Completion Certificate.
		Minimum 120 Schools and up to 200 Schools: 10 Marks		
	Experience of successful implementation of AI & Robotics Training/ AI coding/ AI with in minimum 450 government school in a single work order in with in last 5 FY. OR	More than 650 Schools: 20 Marks		
		More than 550 Schools and up to 650 Schools: 15 Marks		
		Minimum 450 Schools and up to 550 Schools: 10 Marks		
	The bidder should have prior experience of the supply of Science Kit/Education Learning Kit/ Teaching Learning Kit for minimum 10,000 Kits in a single work order in the last 5 FY	More than 20000 kits: 20 Marks		
		More than 15000 kits and up to 20000 kits: 15 Marks		
		Minimum 10,000 Kits and up to 15000 Kits: 10 Marks		
4.	The Bidder should have the following certificates: • ISO 9001 • ISO 14001 • ISO 20001 • ISO 27001	• ISO 9001: 5 Marks • ISO 14001: 5 Marks • ISO 20001: 5 Marks • ISO 27001: 5Marks	20	• Self-Attested Copy of ISO certificates
5.	Approach & Methodology	Understanding of Scope of Work and proposed kits with detailed training plan	30	• Copy of presentation
Total			100	

For MSME/ NSIC registered bidder:

S.No.	Description	Evaluation Criteria	Max Marks	Supporting documents
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1.	The bidder should be in operation in India for at least last 4 years as on the date of submission of the bid.	8 years and above: 15 Marks	15	Incorporation certificate to be submitted
		6 years to less than 8 years: 10 Marks		
		4 years to less than 6 years: 5 Marks		
2.	Bidder must have minimum average annual turnover of Rs. 16 crores during the last three financial year i.e., 2022-23, 2023-24 and 2024-2025.	25 Crores and above: 15 Marks	15	• Certificate from the Statutory Auditor or Chartered Accountant on Turn Over and Positive Net worth • Audited Balance Sheets and Profit & Loss statement for last three years i.e. 2022-23, 2023-24 and 2024-25.
		20 Crores and above but less than 25 Crore: 10 Marks		
		16 Crores and above but less than 20 Crore: 5 Marks		
3.	The bidder should have prior experience of the supply of Science Centre/ATL Lab in minimum 96 government school in a single work order in with in last 5 FY. OR	More than 200 Schools: 20 Marks	20	Copy of the MoU/MoA/Work Order along with the Completion Certificate.
		More than 150 Schools and up to 200 Schools: 15 Marks		
		Minimum 96 Schools and up to 150 Schools: 10 Marks		
	Experience of successful implementation of AI & Robotics Training/ AI coding/ AI with in minimum 360 government school in a single work order in with in last 5 FY. OR	More than 440 Schools: 20 Marks		
		More than 400 Schools and up to 440 Schools: 15 Marks		
		Minimum 360 Schools and up to 400 Schools: 10 Marks		
	The bidder should have prior experience of the supply of Science Kit/Education	More than 16000 kits: 20 Marks		
		More than 12000 kits and up to		

	Learning Kit/ Teaching Learning Kit for minimum 8,000 Kits in a single work order in the last 5 FY	16000 kits: 15 Marks Minimum 8,000 Kits and up to 12000 Kits: 10 Marks		
4.	The Bidder should have the following certificates: • ISO 9001 • ISO 14001 • ISO 20001 • ISO 27001	• ISO 9001: 5 Marks • ISO 14001: 5 Marks • ISO 20001: 5 Marks • ISO 27001: 5Marks	20	• Self-Attested Copy of ISO certificates
5.	Approach & Methodology	Understanding of Scope of Work and proposed kits with detailed training plan	30	• Copy of presentation
Total			100	

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:

- The Financial bid of only those bidders who are found technically eligible shall be opened. The financial bids shall be opened in the presence of representative of technically eligible bidders, who may like to be present. Financial bids will be inspected to ensure their conformity to the format provided in the tender document. If there is any discrepancy between words and figures in any part of the financial bid, the amount indicated in words will prevail. Evaluation of bid will be done separately for each of the solution. Evaluation will be done on the basis of total price (inclusive of taxes) each of the solution. The L1 bidder shall be declared separate for each solution. The bidder who has quoted Lowest in Solution-I shall be declared as L1 bidder for Solution -I. The bidder who has quoted Lowest in Solution -II shall be declared as L1 bidder for Solution -II. The Bidder who is quoting for Solution -II has to mandatorily quote for each of the

line item of Solution -II. Otherwise, the bid shall be summarily rejected. The bidder who has quoted Lowest in Solution-III shall be declared as L1 bidder for Solution-III.

- EdCIL shall issue the purchase order (PO) to the Successful Bidder solution wise based on the receipt of PO to EdCIL from their respective end client. In case of non-receipt of PO to EdCIL from their end client, the respective PO to the Successful Bidder shall not be issued. The quantity and items of each of the solution placed to the Successful Bidder may also be varied as per the receipt of PO to EdCIL from their end client. The winning of bid or being L1 in the solution will not ensure the release of PO to the successful bidder. The PO for each solution shall be released only when EdCIL receive the PO from the end client.
- 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.
- It is mandatory for the bidder to quote for each of the solutions.
- The bidder shall quote the prices as per the price format given in Part B - Commercial Bid of this RFP.
- 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 in 50% of Schools	T+45
5.	Supply, Delivery & Installation in 100% Schools	T+60
6.	Successful commissioning and completion of training in 100% of the schools	T+90

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:

All activities related to the design, supply, installation, commissioning, training, and documentation of Science Centres, Science Kits, and Robotics/AI/Coding components shall be completed strictly within the timelines defined in the approved implementation plan.

- The bidder shall ensure timely procurement, delivery, installation, and commissioning of all Science Centres, Science Kits, and associated equipment at designated schools.

- The bidder shall ensure completion of training programmes for teachers and students, including submission of training reports and attendance records within stipulated timelines.
- Proper documentation, including delivery challans, installation reports, geo-tagged photographs, and completion certificates, must be submitted as per defined timelines.
- Any delay attributable to the bidder in supply, installation, commissioning, or training shall attract a penalty of 0.5% of the value of the delayed portion per week of the delay.
- The total penalty shall be capped at a maximum of 10% of the total contract value.
- Upon reaching the maximum penalty limit, EdCIL (India) Limited reserves the right to take appropriate action, including termination of the contract.

Chapter-VII**Payment terms**

S.No.	Milestone	Payment (%)
1	50% delivery of the kits and its relevant equipment/ accessories etc. The bidder should submit the following documents to the EdCIL for the payment: • PDI report duly signed by EdCIL/Client. • Original Tax invoice showing contract number, goods description, quantity unit price, total amount. • Delivery report duly signed and stamped from HM/AHM of School. • Geo-tagged photographs • E-way bills	30%
2	100% delivery and installation of the kits and its relevant equipment/ accessories etc. The bidder should submit the following documents to the EdCIL for the payment: • PDI report duly signed by EdCIL/Client. • Original Tax invoice showing contract number, goods description, quantity unit price, total amount. • Delivery report duly signed and stamped from HM/AHM of School. • Geo-tagged photographs • E-way bills	30%
3	100% commissioning of all the kits and installation of hardware / software at selected school locations and Successful Completion of Training to school teachers After physical verification by the Committee constituted by the client, successful completion of the training, and verification of the project completion report by the Chief Education Officer. The bidder should submit the following documents to the EdCIL for the payment • Installation report duly signed and stamped from HM/AHM of School. • Geo-tagged photographs • Warranty Certificate. • Submission of Training Attendance sheet. • Training photographs and videos must be submitted to the EdCIL/ Client.	40%

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 5% of the total work order value awarded to bidder should be submitted 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.

ANNEXURE-I

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

ANNEXURE III

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 the Supply Installation, Commissioning and Training of 60 Science Centres, Science Kits and Robotics/AI/Coding Training in the schools of Jammu and Kashmir

This bears reference to EdCIL Bid No. **EdCIL/DES/SC/SK/RACT/2026/002** 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-VI**List 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 the Supply Installation, Commissioning and Training of 60 Science Centres, Science Kits and Robotics/AI/Coding Training in the schools of Jammu and Kashmir

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 2026.

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 Apostile certificate.

ANNEXURE-IX**LETTER 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 the Supply Installation, Commissioning and Training of 60 Science Centres, Science Kits and Robotics/AI/Coding Training in the schools of Jammu and Kashmir

-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 ₹ 7,95,000.00/- in the form of PBG/ DD/ NEFT/ 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 the Supply Installation, Commissioning and Training of 60 Science Centres, Science Kits and Robotics/AI/Coding Training in the schools of Jammu and Kashmir (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 2026, 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 the Supply Installation, Commissioning and Training of 60 Science Centres, Science Kits and Robotics/AI/Coding Training in the schools of Jammu and Kashmir.

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/SC/SK/RACT/2026/002** Dated 2026.

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/SC/SK/RACT/2026/002** dated2026 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 is required to submit ₹ 7,95,000.00/- against the EMD. The bidder is required to submit ₹ 7,95,000.00/- as Earnest Money with the EdCIL through Account Payee Bank Demand Draft/ BG/ NEFT 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 by 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/SC/SK/RACT/2026/002** 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 XIII**Contract Form**

THIS AGREEMENT made the day of 2026 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 Purchase 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 Prize 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 Contact 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

S.No.	Name of the Bank
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

S.No.	Name of the Bank
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.

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

Annexure XVIII

**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 SPECIFICATIONS**Solution I:****Technical specification or Science Centre:**

S.No.	Package	Category	Name	Specifications	Qty
1	P1	Science Products	Battery, Pencil Cell 1.5 V AA	Electronics Development- Standard pencil cell for electronics experiments	20
2	P2	Science Products	Gear Box	Modular gearbox assembly comprising multipurpose ABS connectors (approx. 10– 60 mm range), hollow spacers (approx. 8– 12 mm diameter range), and multi-hole connector bricks compatible with standard brick/perforated boards. Includes assorted structural connectors, shafts, nuts, racks, gears, and idler components in varying quantities (approx. 1–30 units per component type) for mechanical power transmission, motion conversion, and STEM prototyping applications.	3
3	P2	Science Products	Smart Circuit	A modular smart electronics learning kit designed for hands-on circuit design and prototyping, supporting 50+ DIY projects, interactive digital simulations, and multiple real-world model templates with an illustrated user guide. The kit includes 10– 20 essential electronic components, 30– 60 modular/magnetic building blocks, and 40+ structural accessories, powered through dual input (USB and DC supply) and designed for tool-free, solderless assembly suitable for educational environments. Working demonstration model of a nuclear power plant illustrating the energy generation process through visual indicators (e.g., LED/light flow simulation). Approximate size range: 25–40 cm (L) × 18–	3
4	P2	Science Products	Nuclear Reactor model	30 cm (W); lightweight educational model (approx. 200–500 grams). Operated using standard replaceable battery power (minimum	1

				1 × 9V or equivalent), suitable for classroom/laboratory demonstration. Reactor type representation may be generic (e.g., pressurized or boiling water reactor) as per standard educational requirements.	
5	P2	Science Products	Inorganic / Organic Chemistry Molecular Models	Material: Durable, non-toxic polymer (PP or equivalent); total components approx. 140– 160 pieces; atom spheres approx.20–25 mm diameter; supplied with storage box and user manual. Kit includes assorted atom models representing common elements (e.g., hydrogen, carbon, oxygen, nitrogen, sulfur, phosphorus, halogens, metals), lone pair paddles, and a mix of medium and long flexible connectors in varied quantities to support 2D and 3D molecular structure construction.	1
6	P2	Science Products	Robotics DIY Kit	Programmable educational development kit designed for exploration of IoT, cloud computing, and network communication protocols. The controller shall be a 32-bit microcontroller with integrated wireless connectivity (IEEE 802.11 b/g/n or equivalent), supporting modular expansion and sensor interfacing. The kit shall include a structural chassis (fiber or equivalent), DC geared motors, wheels, motor driver module, rechargeable battery system, multiple sensor modules (e.g., IR, ultrasonic or equivalent), wireless communication module (e.g., Bluetooth or equivalent), connectors, interfacing cables, and essential assembly tools. An interactive optics learning kit designed for secondary and senior secondary	3
7	P2	Science Products	Laser ray optics kit	students (Classes 9–12) to explore fundamental principles of light and ray optics through hands-on experimentation. The kit includes multiple acrylic lenses (minimum 2), a ray box with adjustable single and multi-beam light configurations (1 to 5 rays range) and supporting experiment/practice sheets aligned with physics curriculum standards.	1

8	P2	Science Products	Law of resistance kit	Variable DC output approx. 0–5V ($\pm 10\%$), suitable for verifying Ohm's Law and current-voltage relations. Includes analog moving coil meters (Voltmeter approx. 0–5V DC range; Ammeter approx. 0–50–100 mA range). Inbuilt DC power supply approx. 5–6V, 400–600 mA range, line/load regulation approx. ± 2 –5%, rheostat for resistance variation, meter accuracy approx. ± 2 –3%, operates on 220–240V AC, 50/60 Hz, provision for external DC battery operation.	1
9	P2	Science Products	Transformer kit	Educational transformer model suitable for demonstrating voltage transformation principles. Safe low-voltage secondary output for lab use.	1
10	P2	Science Products	Science Products	Polarizer and analyzer set suitable for optics experiments, photography built-in or mirror-based illumination system.	1
11	P2	Science Products	3D Model of Human Heart	Anatomical 3D heart model suitable for educational demonstration.	1
12	P2	Science Products	3D Model of Human System	Set of approx. 4–6 anatomical system models (Circulatory, Respiratory, Nervous, Digestive, Reproductive), durable material for classroom use.	1
13	P2	Science Products	3D Model of DNA	Three-dimensional DNA structure model for biology demonstration.	1
14	P2	Science Products	Bio-gas Plant model	Working demonstration model of biogas plant showing anaerobic digestion process. Approx. dimension 28–32 cm $\times$ 20–25 cm $\times$ 4–6 cm, weight approx. 0.8 - 1.2 kg, battery operated (9V compatible).	1
15	P2	Science Products	Area of Parallelogram	Mathematical demonstration model for explaining area concept. Durable construction for classroom handling.	1
16	P2	Science Products	Atomic Structure Model	Atom model with approx. 25–35 protons, neutrons, and electrons pieces, magnetic or detachable type. Storage box approx. 22–26 cm $\times$ 34–38 cm $\times$ 6–8 cm.	1
17	P2	Science Products	Day & Night Model	Working model demonstrating Earth's rotation and day-night concept. Battery operated or manual mechanism.	1
18	P2	Science Products	Electroplating Machine	Educational kit demonstrating electroplating and chemical effects of electric current. Includes electrolyte	1

			Working Model	container, electrodes, connecting wires, and safe low-voltage power arrangement.	
19	P2	Science Products	Faraday Law	Demonstration apparatus for electromagnetic induction and Faraday's Law. Suitable for physics lab experiments.	1
20	P2	Science Products	Inclinometer	Magnetic base clinometer measuring approx. 0–90° or 0–180° range, accuracy approx. ± 0.5 –1°, compact size approx. 9–12 cm square, weight approx. 80–150 g.	2
21	P2	Science Products	Joint (Set of 6)	Set of approx. 5–8 mechanical joints/connectors for structural assembly.	1
22	P2	Science Products	Kaleidoscope	Educational kaleidoscope for optical symmetry demonstration.	1
23	P2	Science Products	Law of Inertia	Demonstration model explaining inertia principle.	1
24	P2	Science Products	Lazy Tube	Physics demonstration apparatus illustrating inertia/motion principles.	1
25	P2	Science Products	Maxwell Wheel	Demonstration apparatus illustrating conservation of energy and rotational motion.	1
26	P2	Science Products	Mechanism of Breathing	Working lung model demonstrating inhalation and exhalation mechanism.	1
27	P2	Science Products	Newton 1st Law	Demonstration model for Newton's First Law of Motion.	1
28	P2	Science Products	Newton 2nd Law	Demonstration model for Newton's Second Law of Motion.	1
29	P2	Science Products	Newton Cradle	Standard Newton's cradle with approx. 5–7 steel balls, mounted on frame.	1
30	P2	Science Products	Fleming Left Hand Rule	Demonstration apparatus for motor rule concept.	1
31	P2	Science Products	Periodic Table	Classroom display periodic table (chart or board format).	1
32	P2	Science Products	Periscope	Educational periscope approx. 30–45 cm length, plastic/metal construction.	1
33	P2	Science Products	Phases of Moon	Demonstration model illustrating lunar phases.	1
34	P2	Science Products	Pythagoras Theorem By Reverse Method	Plastic board approx. 14–18 cm square, multicolor (yellow/red or equivalent).	1
35	P2	Science Products	Plant Cell	3D plant cell model with labeled parts, durable plastic/resin material.	1

36	P2	Science Products	Square of Numbers power of 2 board	Geoboard/manipulative board approx. 20–25 cm square, plastic construction.	2
37	P2	Science Products	Algebra Case Kit	Educational case kit approx. 38–45 cm length × 38–45 cm width, durable casing.	1
38	P2	Science Products	Resonance	Set of approx. 8–12 demo activities explaining geometric figures and parameters. Approx. size 38–42 cm × 28–32 cm × 6–10 cm, EVA foam or equivalent material.	1
39	P2	Science Products	Mensuration Kit	Set of approximately 8–12 demo activity kits for understanding geometric figures and their parameters such as length, volume, shape, surface area, lateral surface area, etc. Approximate kit dimensions ranging from 38–45 cm × 28–35 cm × 6–10 cm. Material: EVA foam or equivalent durable, lightweight material suitable for classroom use.	1
40	P2	Science Products	Solar System	3D solar system model for astronomy demonstration, suitable size for classroom display.	1
41	P2	Science Products	Solar & Lunar Eclipse	Working model demonstrating solar and lunar eclipses.	1
42	P2	Science Products	Water Quality Checker Models	Working model for chemistry to check salt impurities in water. Product dimension approx. 28–32 cm × 18–22 cm × 1.5–3 cm; weight approx. 200–350 g; powered by 9V battery (included or compatible).	1
43	P2	Science Products	Wind Mill	Educational windmill model suitable for demonstrating basic wind energy principles. Size and material suitable for classroom demonstration kit for learning classification and congruency of triangles (minimum 5 types).	1
44	P2	Science Products	Triangle Congruence	Made of EVA foam or equivalent durable material.	1
45	P2	Science Products	Prism Kit	1 Glass Prism with compatible halogen/tungsten bulb light source approx. 10–60 W range, with suitable holder.	2
46	P2	Science Products	Drip Irrigation System & Sustainable	Kit dimension approx. 22–26 cm × 16–20 cm × 6–8 cm, weight approx. 0.4–0.7 kg. Includes drip irrigation setup for approx. 8–12 plants, 12V	1

			use of Natural Resources - Gardening Kit	compatible water pump (2– 5W range), soil moisture sensor (5V compatible), LEDs (2–4W range), resistors ($\frac{1}{4}$ W typical), jumper wires (approx. 15–25 cm length), pH paper (approx. 60–100 strips), power adapter approx. 12V, 1.5–3A range.	
47	P2	Science Products	Human Body Parts and Structure	Educational anatomical torso model suitable for classroom biology demonstration.	2
48	P2	Science Products	Structure 3D Pen	3D Pen compatible with 1.75 mm PLA filament, supplied with filament approx. 8– 12 m per color (minimum 3 colors).	1
49	P2	Science Products	Fun Rocket Launcher	Pipe approx. 45–55 cm length, 1–2 cm dia, 3 pipes each approx. 15–25 cm length, foam rockets (3 nos.), air pump system. Capable of launching approx. 8– 15 ft height (approx.).	3
50	P2	Science Products	Solar Car	Metal chassis (powder-coated steel or equivalent), compatible with wheels up to approx. 65–80 mm diameter, with motor and solar panel mounting support.	1
51	P2	Science Products	DIY Sound speaker	Audio amplifier board operating on DC 5V $\pm$ 1V, Bluetooth version 4.2–5.2 range, equivalent to PAM8403 or similar chipset.	3
52	P2	Science Products	Discovering Motions- Robotics	ABS/plastic building components including connectors (approx. 15–25 mm), spacers (8–12 mm), bricks of varied sizes ($\pm$ 10% tolerance), wheels approx. 200–220 mm square with grid hole pattern. Quantities flexible within $\pm$ 20% tolerance.	1
53	P2	Science Products	E Circuit kit	Buzzer approx. 30–40 mm length, toy fans approx. 60–75 mm radius, LED blocks approx. 35–45 mm, resistor/capacitor blocks compatible with 9V/AA systems, push/slide switches approx. 40–50 mm, potentiometers, motor blocks approx. 12–18 mm $\times$ 30–40 mm, brick boards approx. 200–220 mm square.	1
54	P3	Measurement Tools	Digital Pen electric Tester	Standard voltage tester suitable for AC testing up to 230–250V range.	1
55	P3	Measurement Tools	Digital Multi Meter	7-function digital multimeter covering DC voltage approx. 200 mV to 1000V, AC voltage approx. 200–750V, DC current approx. 200 μ A to	5

				10A, resistance approx. 200Ω to 2MΩ or higher, with diode and transistor test.	
56	P3	Biology Kit	DIY Paper Microscope	Magnification range approx. 100x–2000x.	5
57	P3	Astronomy Equipment	Telescope	Altazimuth mount; focal length approx. 650–750 mm, suitable for terrestrial and astronomical viewing.	1
58	P3	Textile Equipment	Sewing Kit	Semi-automatic sewing machine; straight stitch capability; supplied with assorted needles and multicolor thread set (minimum 8–12 spools).	1
59	P4	Power Supply & accessories	Glue Sticks	Hot melt glue sticks approx. 10–12 mm dia × 180–220 mm length.	100
60	P4	Power Supply & accessories	Nuts and Bolts and screw	Assorted fasteners including M4–M6 bolts of length approx. 12–25 mm range.	40
61	P4	Power Supply & accessories	Cable Tie	Small/Medium/Large cable ties (pack of approx. 80–120 each).	10
62	P4	Power Supply & accessories	Cable Tie	Medium Cable Tie Pack - Pack of 100-120	10
63	P4	Power Supply & accessories	Cable Tie	Big Cable Tie Pack - Pack of 100-120	10
64	P4	Power Supply & accessories	Sand Paper	Grit range approx. 80–300, minimum 5 sheets per grit.	10
65	P4	Power Supply & accessories	Power Strip Adaptors	Extension board with minimum 4–6 sockets, 5A safety fuse, approx. 4–6 m length.	5
66	P4	Power Supply & accessories	Bulb Holders	Standard hanging bulb holder compatible with common bulbs.	10
67	P4	Power Supply & accessories	Electric Wires	Twisted Red black pair	20
68	P4	Power Supply &	USB TO DC jack cable	USB to DC jack cable compatible with battery bank output.	10

		accessories			
69	P4	Safety equipment	First-Aid Kit	Standard medical first aid kit in portable container as per safety norms.	2
70	P4	Safety equipment	Safety goggles (with/without LED torch)	Polycarbonate safety goggles, clear lens, no tint.	30
71	P4	Safety equipment	Safety Gloves Pairs	Latex-coated gloves, medium size or equivalent standard size.	10
72	P4	Safety equipment	Safety Mask	Filtering efficiency approx. 75–85% for 0.3 micron particles.	20
73	P4	Safety equipment	Safety equipment	Powder type fire extinguisher approx. 1.5–2.5 kg capacity.	2
74	P5	Lab Infra	Working table	Approx. 4–5 ft length × 2–3 ft width, metallic structure; laminated MDF top with edge binding.	4
75	P5	Lab Infra	Stool	Standard lab stools (approx. 8–12 units).	10
76	P5	Lab Infra	Almirah	Approx. 4.5–5.5 ft height, steel construction.	1
77	P5	Lab Infra	Steel rack	Slotted angle rack approx. 12–24 inch depth × 48–72 inch height, 4–6 shelves, painted finish.	2
78	P5	Lab Infra	Posters	Printing of banner/board, signage etc.	11
79	P5	Refurbishment	Painting & electrification	Refurbishment of Lab in terms of electrical fittings, painting/whitewash, etc.	1
80	P5	Training of Teachers	Training of Teachers	Physical teacher training approx. 4–6 days, batch size approx. 30–50 teachers.	1
81	P5	Science Products	Compound Biological Microscope	Metal body microscope approx. 300–340 mm height, objectives approx. 10x & 40x/45x, eyepieces approx. 10x–15x, coarse & fine adjustment.	1
82	P5	Science Products	Spring balance	Capacity approx. 200–300 g, graduation approx. 5–10 g steps.	2
83	P5	Science Products	Magnetic Compass	Approx. 45–55 mm dia, metal/plastic casing.	1
84	P5	Science Products	Full Protractor	Transparent plastic approx. 120–130 mm dia, thickness approx. 1.5–3 mm.	1
85	P5	Science Products	Tuning Fork and rubber pad	Frequency approx. 250–260 Hz, with striker pad.	1

86	P5	Science Products	Measuring cylinder	Transparent plastic/glass approx. 100 mL capacity, graduation approx. 1 mL.	1
87	P5	Science Products	Syringe Pump	Polycarbonate syringe pump approx. 180– 220 mm length, dia approx. 25– 35 mm.	4
88	P5	Science Products	U-Shape Magnet	Assorted magnets approx. 50–80 mm length, clearly marked N/S poles.	4
89	P5	Science Products	Bar Magnet	Approx. 30–40 mm dia, thickness approx. 6–10 mm.	1
90	P5	Science Products	Cylindrical	Dia. 15-20 mm and length 20-30 mm.	1
91	P5	Science Products	Magnet Ring Magnet	Outer dia. 15-20 mm and thickness 2- 5 mm.	1
92	P5	Science Products	Disc Magnet	Dia. 35-40 mm and 5-10 mm thick. ferrite	1
93	P5	Science Products	Laboratory Stand 1) Boss head 2) Clamp 3) G clamp	MS rod approx. 8–12 mm dia × 350– 400 mm length, with boss head and clamps.	1
94	P5	Science Products	Multimeter	Pocket size digital, high impedance.	1
95	P5	Science Products	Pair of Tongs	Approx. 150–170 mm length, chrome plated or stainless steel.	1
96	P5	Science Products	Surgical Scissors	Approx. 120–130 mm length, one pointed and one blunt prong.	1
97	P5	Science Products	Screw driver	Approx. 100–130 mm length, insulated plastic handle.	1
98	P5	Science Products	Dissecting Needle	Standard, length 100-120 mm, with plastic handle.	2
99	P5	Science Products	Claw hammer with handle	Forged type approx. 200–250 g weight, wooden handle.	1
100	P5	Science Products	Magnifying Glass	Optical glass approx. 100–140 mm focal length.	1
101	P5	Science Products	Beaker (50mL)	Borosilicate glass approx. 45–55 mL capacity.	2
102	P5	Science Products	Micro Beaker (10mL)	Borosilicate glass approx. 8–12 mL capacity.	4
103	P5	Science Products	Permanent slide	Hydra, Amoeba, Paramecium etc. packed in protective slide box.	1
104	P5	Science Products	Double Concave Lens	Focal length approx. 18–22 cm, dia approx. 45– 55 mm.	1
105	P5	Science Products	Double Convex lens	Appropriate size to safely accommodate all glassware items. 2 boxes approx. 70–80 mm × 120–140 mm × 70–80 mm each; 1 box approx. 230–250 mm × 125–135 mm × 80–90	1

				mm. All glassware to be securely packed.	
106	P5	Science Products	Concave Mirror	Glass, Focal Length 18-24 cm, dia. 3-5cm.	1
107	P5	Science Products	Convex Mirror	Glass, Focal Length 18-24 cm, dia. 3-5cm. Appropriate size to safely accommodate all glassware items. The package shall include 2 boxes of approximate dimensions ranging from 70–80 mm × 120–140 mm × 70–80 mm each, and 1 box of approximate dimensions ranging	1
108	P7	Science Products	Plastic Boxes	from 220–250 mm × 125–135 mm × 80–90 mm. All glassware items shall be securely packed within these boxes.	3

Solution II:**For AI Coding Kits Specifications**

S.No.	Component name	Specification	Qty
1	2-piece connector	2-piece multipurpose connector of size 1.5 cm x 0.8 cm compatible with brick board. The connector should be made of high-quality ABS material.	50
2	3-piece connector	3-piece multipurpose connector of size 2.1 cm x 0.8 cm compatible with brick board. The connector should be made of high-quality ABS material.	32
3	Hollow spacer	1.0 cm diameter, 0.1 cm thickness plastic hollow spacer. The connector should be made of high-quality ABS material.	60
4	T connector	1.5cm x 10cm T connector compatible with the provided shafts such that the vertical part of the T-shape has a plus shape hole and the horizontal part of the T-shape has a round shape hole. The hole diameter should be 0.8cm. The connector should be made of high-quality ABS material.	24
5	1 x 3 (2-way free connector)	2.0cm x 0.8cm Brick connector such that after connecting the brick/connector should move freely. The connector should be made of high-quality ABS material.	24
6	3 x 1 brick	3.0cm x 1.0cm x 1.0cm Connector. Should have a Plus shape in center and should be compatible with the plus shape shafts. The other 2-hole diameter should be 0.8cm. The brick should be made of high-quality ABS material.	4
7	5 x 1 brick	5.0cm x 1.0cm x 1.0cm brick with 5 holes. The hole's dimensions should be 0.8cm each. The brick should be made of ABS material.	12

8	7 x 1 brick	7.0cm x 1.0cm x 1.0cm brick. The hole's dimensions should be 0.8cm each. The connector should be made of high-quality ABS material.	8
9	11 x 1 brick	11.0cm x 1.0cm x 1.0cm multipurpose connector bricks having 1 row of 11 holes. The hole's dimensions should be 0.8cm each. The connector should be made of high-quality ABS material.	6
10	Wheel with rubber grip	Plastic wheel of 4.4cm diameter and 2.4cm thickness compatible with provided shaft, Rubber grip for the provided wheel. The wheel should be made of high-quality ABS material.	10
11	Shaft - a	Minimum length 6.0cm. It should be made of high-quality ABS material.	2
12	Shaft - b	Minimum length 10.0cm. It should be made of high-quality ABS material.	4
13	Disassembling tool	9.0 x 1.5 x 1.5 cm disassembling tool. Compatible for 2-piece connector and T connectors. It should be made of high-quality ABS material.	2
14	11 x 7 brick board	11.1cm x 7.0cm x 1.0 cm Multipurpose base brick for connectors having 77 holes compatible with provided bricks and other provided connectors. It should be made of high-quality ABS material.	4
15	Joiner (plane)	2.0cm x 1.0cm x 1.0cm Joiner/Connector having two plus shape protrusion for joining which are compatible with provided bricks. It should be made of high-quality ABS material.	8
16	Right angle connector	3.0cm x 1.0cm x 1.0cm connector having two holes and 1 mid plus shape for joining which are compatible with provided bricks. It should be made of high-quality ABS material.	2
17	Spur gear 1	2.0 cm diameter x 1.0 cm thickness plastic spur gear compatible with the provided shaft. It should be made of high-quality ABS material.	6
18	Spur gear 2	6.0cm diameter and 1.0cm thickness Plastic spur gear compatible with provided motor shaft. It should be made of high-quality ABS material.	4
19	7 x 5 x 7 U shape brick	7.6cm x 5.0cm x 1.0cm Multipurpose bricks having 7 holes, 5 holes and 7 holes in U shape and having a connecting protrusion on two ends of the U shape and two corresponding holes on the opposite end from the protrusion. It should be made of high-quality ABS material.	8
20	13 x 5 x 13 U shape brick	14.0 cm x 5.0 cm x 1.0 cm Multipurpose bricks having 13 holes, 5 holes and 13 holes in U shape and having a connecting protrusion on two ends of the U shape and two corresponding holes on the opposite end from the protrusion. It should be made of high-quality ABS material.	4
21	Power block	3.5 cm x 3.0 cm x 1.2 cm Power block. It can be powered with a 5v powerbank through a USB cable. Should be compatible with the 2 piece connector. The block should have a 4 pin bug strip slot as output	2

22	Motor block	3.5 cm x 3.0 cm x 1.2 cm Motor block. Should have a JST pin to connect the motor. Male and female 4 pin bug strip for input and output. A slide switch to control the direction. Should be compatible with the 2 piece connector. Slide switch to turn On and Off.	4
23	IR sensor block	2.7 cm x 2.6 cm x 1.4 cm IR sensor block. Should have a JST connector for input. Should be compatible with the 2 piece connector. Male and female 4 pin bug strip for input and output.	4
24	Distance block	3.5 cm x 3.0 cm x 1.2 cm Distance block. Should be compatible with 2 piece connectors. Should have a JST connector and a variable knob. Male and female 4 pin bug strip for input and output.	4
25	LED block	3.5 cm x 3.0 cm x 1.2 cm LED block. Male and female 4 pin bug strip for input and output. Should be compatible with the 2 piece connector.	2
26	Buzzer block	3.5 cm x 3.0 cm x 1.2 cm small Buzzer block. Male and female 4 pin bug strip for input and output. Should be compatible with the 2 piece connector.	2
27	NOT gate block	3.5 cm x 3.0 cm x 1.2 cm NOT gate block. Male and female 4 pin bug strip for input and output. Should be compatible with the 2 piece connector.	2
28	JST wires	3 pin JST wire connector.	4
29	Gear box with motor	8.05 cm x 2.875 cm x 4.85 cm 1A) Plastic Gear casing for toy motor, such that casing has provision for a side shaft 1B) Gear mechanism such that students should be able to see the inner gear mechanism 1C) Standard 3V DC toy motor All of the above should be provided in assembled form. The casing should be made of transparent plastic.	4
30	JST wires	2pin JST wire connector.	4
31	Filler pin	A filler pin made of high-quality ABS material. The filler should have a square base of size 0.8× 0.8 cm with height 0.6cm. It should have a pin of dia 0.3cm and height 0.6cm which will be compatible with the PCB blocks.	4
32	Filler 1	A filler piece of size 0.8× 0.8 cm with 1.0 cm height. It should have a circular through hole in the center to insert different shafts of dia 0.5cm. The Filler should be made of high-quality ABS material.	7
33	Small joiner	A small joiner of size 0.85 cm x 0.85 cm x 1.0 cm. Should be able to join 2 pieces together. It should have a circular hole of dia 0.5cm. The joiner should be made of high-quality ABS material.	9
34	Filler 2	A filler piece of size 0.8× 0.8 cm with 1.0 cm height. It should have X shape through a hole in the center to insert different shafts of dia 0.5cm. The Filler should be made of high-quality ABS material.	10
35	Straight joiner	Straight joiner of size 2.0 cm x 1.0 cm x 1.0 cm. It should be able to connect 3 connectors together. 2 square holes of size 0.8× 0.8 cm and 1 male square	25

		connector of size 0.8× 0.8 cm. The joiner should be made of high-quality ABS material.	
36	L connector	The Connector should be L shaped with square slots to connect 3 other connectors in 3 different axes. The overall size of the connector should be 1.5 cm x 1.5 cm x 1.0 cm. The 2 out of the 3 slots should be of size 0.8 cm x 0.8 cm holes and remaining 1 should be of 0.77 cm x 0.77 cm male square connector. The connector should be made of high-quality ABS material.	23
37	5-hole strip	A 5-hole strip made of high-quality ABS of size 6.0 cm x 1.0 cm x 1.0 cm. The 5 holes should be of square shape of size 0.8 cm x 0.8 cm. Both ends of the strip should have male connector of size 0.8× 0.8 cm.	12
38	Angle connector 1	Small angle connector of overall size 3.0 cm x 3.0 cm x 1.0 cm made of high-quality ABS material. It should help to connect other pieces at a 120-degree angle in 3 different axes. It should have 3 square shaped holes of size 0.8 cm x 0.8 cm. One end of the connector should have male connector, and the other should have a female connector.	12
39	Angle connector 2	Small angle connector of overall size 2.0 cm x 3.0 cm x 1.0 cm made of High-quality ABS material. It should help to connect other pieces at a 120-degree angle. it should have 2 square shaped holes of size 0.8× 0.8 cm. One end of the connector should have male connector, and the other should have a female connector.	12
40	Shaft 1	Shaft of length 9.0 cm length, 0.5 cm diameter.. It should have an X shape cross section. The shaft should be made of high quality ABS material.	2
41	Shaft 2	Shaft of length 6.0 cm and diameter 0.5 cm. It should have an X shape cross section. The shaft should be made of high quality ABS material.	2
42	Shaft 3	Shaft of length 3.0 cm and diameter 0.5 cm . It should have an X shape cross section. The shaft should be made of high quality ABS material.	2
43	Servo motor bracket	A servo motor bracket made of ABS material. It should be compatible with the SG90 servo motor. It should have a male square connector of size 0.8 cm x 0.8 cm. to make it compatible with other ABS parts.	2
44	Servo motor	Standard small plastic servo motor	2
45	Power module	Power Block supplies power to all the Block connected to it. It should have a DC jack to supply power to the other blocks. The overall size of the module should be 3.5 cm x 3.8 cm . The block should be color coded to differentiate between input, output and other blocks. The module should have a 5 pin dupont connector for output. The Module should have an ABS base to make it compatible with other parts.	1
46	Darkness sensor module	It is compatible with Breadboard, Arduino. The overall size of the module should be 3.5 cm x 3.8 cm . The block should be color coded to differentiate	1

		between input, output and other blocks. The module should have a 5 pin dupont connector for both input and output. It should have a potentiometer to adjust the intensity. The Module should have an ABS base to make it compatible with other parts.	
47	Distance sensor module	An IR sensor module with the overall size of the module should be 3.5 cm x 3.8 cm . The block should be color coded to differentiate between input, output and other blocks. The module should have a 3 pin JST connector slot. The Module should have an ABS base to make it compatible with other parts.	1
48	Invert module	The inverter module should have an overall size of the module should be 3.5 cm x 3.8 cm . The block should be color coded to differentiate between input, output and other blocks. The module should have a 5 pin dupont connector for both input and output. The Module should have an ABS base to make it compatible with other parts.	1
49	Wire tap	A block should have 2 JST connectors on top for connecting the relimate wires. It should have an overall size of the module of 3.5 cm x 3.8 cm . The block should be color coded to differentiate between input, output and other blocks. The module should have a 5 pin dupont connector for both input and output. The Module should have an ABS base to make it compatible with other parts.	2
50	Motor driver module	A motor driver block with 2 pin JST connector for connecting the BO motors. It should have an overall size of the module of 3.5× 3.8 cm. The block should be color coded to differentiate between input, output and other blocks. The module should have a 5 pin dupont connector for both input and output. The Module should have an ABS base to make it compatible with other parts.	2
51	Buzzer module	A buzzer block of size 3.5 cm x 3.8 cm . The block should be color coded to differentiate between input, output and other blocks. The module should have a 5 pin dupont connector for both input and output. The Module should have an ABS base to make it compatible with other parts.	1
52	LED module	An SMD LED module. It should have an overall size of the module of 3.5× 3.8 cm. The block should be color coded to differentiate between input, output and other blocks. The module should have a 5 pin dupont connector for both input and output. The Module should have an ABS base to make it compatible with other parts.	1
53	AI chip board	ESP32-based development board (ESP32-WROOM-32 or equivalent) with inbuilt WiFi and Bluetooth, minimum 4 MB flash, featuring at least four4–5pin Dupont connectors and two JST-PH (2.0 mm pitch) connectors, mounted on a durable ABS base for	2

		modular compatibility, capable of interfacing with sensors/actuators for AI/IoT applications, with overall size approximately 6.5 cm× 3.7 cm.	
54	Servo motor driver	A Servo motor driver block of size 3.5 cm x 3.8 cm . The block should be color coded to differentiate between input, output and other blocks. The module should have a 5 pin dupont connector for both input and output. It should have a JST connector to connect the servo motor. The Module should have an ABS base to make it compatible with other parts.	1
55	Motors	BO motors compatible with the Motor driver module. The motor should have ABS brackets to make it compatible with other construction sets. The motor should have a 0.6 cm shaft for wheel connection.	2
56	Wheels with tire	Wheels made of ABS Material and of diameter 4.8cm with rubber tire on outer surface. Should be compatible with the motors.	2
57	Battery	Rechargeable Li-ion/Li-Po battery pack (3.7V–7.4V, minimum 1000 mAh capacity) with inbuilt protection circuit (overcharge, over- discharge, short-circuit), rechargeable via standard USB Type-C interface, BIS certified, and suitable for repeated classroom use.	1
58	Battery connector	Battery connector compatible with Li-ion/Li-Po battery pack (JST-PH type), ensuring secure and reversible connection	1
59	Relimate cables	3 pin relimate cables of length 25.0cm	5
60	Charging Module	USB Type-C charging module for 3.7V Li-ion/Li-Po battery with onboard protection circuit and LED charging indicators.	1
61	Power supply module	Power supply module accepting 3.7V battery input and providing regulated 5V output (minimum 1A) via standard 4-pin connectors, with onboard boost converter, power switch, LED indicator, and ABS enclosure for modular integration.	2
62	Buzzer module	Small size piezo buzzer programmable module which works on 5V operating voltage and compatible with other modules. It should have capability to generate different tones Dimension: 4.5cmx3cmx2.7cm (LxWxH).It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	2
63	Connectivity sensor module	The Connectivity sensor module should work on 5V operating Voltage and can be connected with other modules. It should have 2 pin connectors with 30 cm long wire and crocodile clips at the end. It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules.	2
64	DC motor module	The DC motor module should have a 60RPM motor which works with operating Voltage of 5V to 9V. Speed and directions can be controlled through	2

		programming. It should have a standard 2 pin connector. Dimension: 8.2cmx3.5cmx4.5cm (LxWxH).It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	
65	Light module	The light module should work on operating Voltage of 5V and be compatible with other modules. It should be a programmable block with white light as output Dimension: 3.5cmx3cmx2cm (LxWxH). It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	2
66	Light sensor module	Light sensor modules should have capacity to detect light intensity in surroundings with detection range of 0 to 99. It should be programmable and has a universal 3 pin connector. Dimensions:3cmx2cmx1.8cm (LxWxH). It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	2
67	Moisture sensor module	The moisture sensor module has the capacity to detect moisture present in the soil. It can be programmed and has a universal 3 pin connector. It should work on 5V input power supply.Dimensions: 6.3cmx1cmx0.8cm (LxWxH). It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	2
68	Motion sensor module	Motion sensor has capacity to detect motion with a sensitivity detection range of 0 to 99. It should be programmable and has a universal 3 pin connector. It should work on 5V input power supply. Dimensions: 3.7cmx2cmx0.6cm (LxWxH). It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	2
69	Programmable AI board	ESP32 dual-core microcontroller-based programmable AI board with inbuilt WiFi and Bluetooth, supporting block-based, Python, and Arduino programming in offline mode, featuring multiple I/O ports (sensor, motor, servo, I2C), operating at 5V input with onboard voltage regulation, and housed in an ABS modular enclosure compatible with other system components. It should have 2 local input ports, 2 local output ports, 4 Sensor Ports, 4 DC motor Port, 4 Servo motor Port & 2 I2C Port to connect devices. The board should work on the 5V input power supply provided by the power supply module. The board should be compatible with other blocks as well. The board must contain wireless components to be able to carry our	2

		remote execution projects. The programming environment shall be operable without the need of internet connectivity. The board can be programmed using block based, python based & Arduino C programming. Dimensions (approx): 6.5cmx6.5cmx3.3cm (LxWxH). It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules.	
70	Obstacle sensor module	Obstacle sensors should give values in the range of 0 to 99. It should be programmable and has a universal 3 pin connector. It works on 5V input power supply. Dimensions: 3cmx3cmx2cm (LxWxH). It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	4
71	Sensor base with threshold module	Non programmable block with port provided to connect sensors. Dimensions: 4.5cmx3cmx4cm (LxWxH). It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	2
72	Servo motor module	The servo motor should move its shaft from 0 to 180 degrees. It should operate on 5V power supply	2
73	Sound sensor	Digital microphone/sound sensor module based on MEMS microphone, operating at 3.3V/5V, providing digital (I2S/PDM) or analog output, with adjustable gain/sensitivity, standard 3-pin/4-pin connector, capable of detecting sound intensity and basic audio signals, and compatible with microcontroller-based systems.	2
74	Switch	The switch should be programmable ON/OFF with an LED indicator. It should work on 5V power supply. Dimension: 3.5cmx3cmx3.5cm (LxWxH). It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	2
75	Tilt sensor	Tilt sensors should give values in the range of 0 to 99. It should be programmable and has a universal 3 pin connector. It should work on 5V input power supply. Dimensions: 3cmx2cmx2cm (LxWxH). It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	2

76	Vibration sensor	The vibration sensor should give values in the range of 0 to 99. It should be programmable and has a universal 3 pin connector. It should work on 5V input power supply. Dimensions: 3cmx2cmx2cm (LxWxH). It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	2
77	Motor driver with BO mounted - ON/OFF	Motor of 60 RPM which can work with operating Voltage of 5V to 9V. Speed and directions can be controlled through programming or non programming. It should work with a standard 2 pin connector. It should have inbuilt motor driver for power regulation Dimension: 8.2cmx3.5cmx4.5cm (LxWxH).It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	4
78	Flame sensor	The sensor should give values in the range of 0 to 99. It should be programmable and has a universal 3 pin connector.It should work on 5V input power supply. Dimensions: 3.5cmx1.5cmx1.5cm (LxWxH).It should have a power regulator to manage fluctuation. The module should have a plastic to easily plug and play with other modules	2
79	Programmable brick brain	Programmable brick brain with inbuilt Bluetooth and onboard display/indicators, supporting connection of minimum 4 sensors and 4 actuators via RJ11/RJ45 interfaces, programmable using graphical block-based interface with capability to export/convert programs into C and/or Python code, supporting both block and text-based programming, with rechargeable battery and compatibility with standard sensors.	2
80	Ultrasonic sensor brick	The ultrasonic sensor should have a RJ11 connector and should be compatible with the programmable brain unit	2
81	Humidity sensor brick	The Humidity sensor should have a RJ11 connector and should be compatible with the programmable brain unit	2
82	IR sensor brick	The IR sensor should have a RJ11 connector and should be compatible with the programmable brain unit	2
83	LDR sensor	The LDR sensor should have a RJ11 connector and should be compatible with the programmable brain unit	2
84	Sound sensor	The Sound sensor should have a RJ11 connector and should be compatible with the programmable brain unit	2
85	Connecting cables	RJ 11 cable for connecting sensor with brick brain	4
86	Short U strips	U shape metal strip of size 6.5 x 1.2 x 1.2 cm (L x B x H). It should have holes of 0.4cm diameter for connecting other strips.	6

87	L strips 1	L shape metal strip of size 8.8 x 1.3 x 1.4 cm (L x B x H). It should have holes on both sides of L to help connect other strips.	4
88	L strips 2	L shape metal strip of size 6.3 x 1.3 x 1.4 cm (L x B x H). It should have holes on both sides of L to help connect other strips.	4
89	L strips 3	L shape metal strip of size 3.7 x 1.3 x 1.4 cm (L x B x H). It should have holes on both sides of L to help connect other strips.	8
90	Straight strip 1	Long straight metal strip of size 11.3 x 1.2 cm (L x W). It should have holes of 0.4cm diameter for connecting other strips.	4
91	Straight strip 2	Long straight metal strip of size 8.8 x 1.2 cm (L x W). It should have holes of 0.4cm diameter for connecting other strips.	6
92	Straight strip 3	Straight metal strip of size 6.2 x 1.2 cm (L x W). It should have holes of 0.4cm diameter for connecting other strips.	4
93	Straight strip 4	Straight metal strip of size 3.6 x 1.2 cm (L x W). It should have holes of 0.4cm diameter for connecting other strips.	4
94	Rectangular plates 1	Rectangular metal plate of size 13.9x 8.9 cm (L x W). It should have holes of 0.4cm diameter for connecting other strips.	2
95	Rectangular plates 2	Rectangular metal plate of size 11.3 x 8.9 cm (L x W). It should have holes of 0.4cm diameter for connecting other strips.	2
96	Square plate 1	Square metal plate of 6.3 cm size. It should have holes of 0.4cm diameter for connecting other strips.	4
97	Square plate 2	Square metal plate of 3.8 cm size. It should have holes of 0.4cm diameter for connecting other strips.	4
98	L angle	L shape metal strip of size 3.7 x 1.3 x 1.4 cm (L x B x H). It should have holes on both sides of L to help connect other strips.	4
99	Nuts and bolts	Set of nut bolts and spacers compatible with the strips	1
100	Castor wheels	A plastic castor wheel with 3.2 cm diameter and 2 cm thick. The over height of the castor wheel should be 4.6cm and length 4.9 cm. The castor wheel should have holes to connect with other strips.	2
101	Axle shafts long	Steel shaft of length 8 cm and diameter 0.3 cm	4
102	Axle shafts short	Steel shaft of length 6.3 cm and diameter 0.3 cm	4
103	Geared motors with variable speed	100 rpm Geared motor. It should have a casing for 6 x 4.6 x 3.6 cm. It should also have RJ11 connector to connect with other parts.	8
104	Gear pack 1	Gears of OD 3.9 cm with total 46 teeths. The gear should have a shaft at the center of height 1.3 cm with a hole in the center to connect with the other screws	4
105	Gear pack 2	Gears of OD 1.4 cm with total 15 teeths. The gear should have a shaft at the center of height 1.3 cm with a hole in the center to connect with the other screws.	2

106	Hook	Plastic hooks of size 4.5 x 2 cm with 0.5cm hole on top connect with other parts.	4
107	Charger	12 v 1amp charger with DC jack on other end	2
108	Allen key	Small allen key compatible with the nut and bolt set	4
109	Metal spanner key	Metal spanner key compatible with nuts and screws. Overall height of spanner is 7cm	4
110	AI microcontroller board	The board should feature a RISC-V 32-bit controller. It must include wireless communication capabilities such as Bluetooth 5.0, Zigbee, and Thread. Power should be supplied via a rechargeable Li-ion battery [min 800 mAH] with charging circuit built into the board or USB type C Power supply. Programming must be supported through a wired (USB Type-C cable) and wireless (bluetooth) for ease of use. The board should have 2 0.35cm DC jack connectors for connecting sensors. The board must have an onboard programmable RGB LED for visual indications. The board must have a physical ON/OFF switch, at least two user readable tactile switches, two servo motor connectable pin headers, two DC motor pins, powered through a full H-bridge motor driver IC's. The board should be compatible with plastic technic construction modules, allowing integration with DIY systems.	2
111	High torque DC motor	High torque DC motor which is compatible with plastic technic construction modules. The Motor should be compatible with the AI Microcontroller board.	2
112	Distance sensor	Analog IR sensor with DC connector to connect with the AI Microcontroller board.	2
113	Plastic technic construction modules	Construction kit made of durable high quality plastic consisting of 35+ pieces including: Peg Joiners right angled-2 Plastic Axle-2 Peg Connector Perpendicular 3L with 2 Peg Hole-1 Full Bush-2 Peg 3L with Friction Ridges and Center Peg Hole-1 Peg with Short Friction Ridges-20 Castor wheel compatible with technic modules-1 1x6 Technic brick with 5 peg holes-1 11x15 rectangular technic plastic block-1 7x11 rectangular technic plastic block-1 1x15 Beam-1 1x5 Beam- 2 All the pieces in the kit should interlock with each other and the Microcontroller board	1 set
114	3.5 Jack connector	Right Angled four pole 0.35m port jack Connector	2

115	Flight controller	Educational programmable flight controller based on 32-bit microcontroller (ESP32/ARM Cortex-M4 or equivalent), with onboard sensors (accelerometer, gyroscope, magnetometer, barometer), supporting user-programmable firmware via block-based and text-based (C/Python) environments, with open and reprogrammable architecture (not locked firmware), operating at 2.8–5.5V input, and providing standard interfaces for motor and sensor connectivity.	1
116	Frame	Plastic frame size 10.0 cm x 10.0 cm Should have space to hold the controller with screw and slots to insert 4 motors The frame should have a top casing to cover the controller	1
117	Propeller guards	Set of 4 propeller guards Compatible for propeller of size 5.5 cm	1
118	Propellers	Set of 4 propellers (2 clockwise and 2 counter clockwise) made of ABS material Size 55mm Compatible with high speed motor	1
119	LiPo battery	3.7V 600 mAh 25C LiPo battery and should be compatible with slots of flight controller	1
120	High speed motor	Brushed coreless motors of size 2.0 cm x 0.7 cm With no load speed 50000rpm	4
121	Unified Programming Software Specification	A unified programming software platform shall be provided, supporting block-based, Python, and Arduino/C programming in offline mode, compatible with all microcontrollers, sensors, and modules included in the kit. The platform shall enable seamless conversion of block-based programs into equivalent C and/or Python code, with user access to view and edit the generated code. The software shall be operable on Windows, Linux, Android, and iOS systems, and shall include a built-in simulator for virtual testing of programs without hardware. It shall support development of IoT and AI-based applications, including access to device features such as sensors, speech recognition, and communication interfaces. The platform shall be open, non-proprietary, and not restricted to vendor-locked ecosystems. It shall include all necessary drivers, libraries, and extensions required for interfacing with the provided hardware modules. The interface shall be user-friendly, suitable for school-level learners, and available in at least English and Hindi languages	1
122	Flight controller app	Flight controller application compatible with the programmable flight controller, supporting remote control (joystick/tilt modes), sensor calibration, motor testing, and parameter tuning (PID), operable on Android/iOS devices.	1
123	USB HD Webcam	USB HD webcam with minimum 720p/1080p resolution, integrated microphone, plug-and-play	1

		compatibility with Windows/Linux systems, suitable for computer vision and AI based applications.	
124	Camera Module	ESP32-CAM or equivalent camera module with onboard WiFi/Bluetooth, OV2640 camera (2MP or higher), supporting image capture and streaming, compatible with microcontroller based AI/IoT applications.	1
125	Digital Microphone Module	MEMS-based digital microphone module supporting analog/digital (I2S/PDM) output, operating at 3.3V/5V, with adjustable gain and standard connector, suitable for speech and audio processing experiments.	2
126	IMU Sensor Module	6-axis IMU sensor (accelerometer + gyroscope, e.g., MPU6050 or equivalent), operating at 3.3V/5V, with I2C interface, suitable for motion sensing, robotics, and drone applications.	2
127	SD Card Module	Micro SD card module with SPI interface, operating at 3.3V/5V, supplied with minimum 16GB memory card, suitable for data logging and dataset storage.	1
128	Headphones with Microphone	Over-ear or on-ear headphones with integrated microphone, 3.5 mm jack or USB interface, suitable for audio input/output and speech-based experiments.	2
129	Laptop/Desktop System	Intel i3/Ryzen 3 or equivalent, 8GB RAM, 256GB SSD, with Windows/Linux OS support, capable of running programming and AI software tools.	1
130	USB Hub	Multi-port USB hub (minimum 4 ports), USB 2.0/3.0 compatible, with external power support (optional), for connecting multiple boards and peripherals.	1
131	WiFi Router / Internet Dongle	Wireless router or USB WiFi dongle supporting 2.4 GHz connectivity, suitable for internet access for software updates and IoT/AI applications.	1
132	Multi USB Charging Station	Multi-port USB charging station (minimum 4 ports, 5V output), capable of charging multiple devices/batteries simultaneously with overload protection.	1
133	Power Extension Board	Electrical extension board with minimum 4 sockets, surge protection, overload protection, and power switch, suitable for lab usage.	1
134	Storage Boxes / Organizers	Durable plastic storage boxes with compartments for organizing sensors, connectors, and modules, with transparent lid and secure locking mechanism.	2

- All modules shall use standardized connectors (JST-PH for power/sensors and Dupont for development interfaces) to ensure interoperability across the system.
- All plastic components shall be made of durable, injection-molded ABS, impact-resistant, non-toxic, with smooth finish and no sharp edges.
- The complete system shall be delivered in fully functional condition. Vendor shall demonstrate end-to-end working of hardware and software integration, including programming, sensor interfacing, and actuator control during technical evaluation.
- Sample of key components/kit shall be submitted and approved prior to bulk supply.

- All electrical components shall comply with relevant safety standards and operate within safe voltage limits for school usage.
- Vendor shall provide user manuals, experiment guides, and training support for teachers.

Solution III:

Deliverables	Technical Specification	Qty
Kit manual	Kit manual of A4 size with 100 GSM paper is supplied with the kit. The manual should be colourful printed.	1
Kit box with carton of 6 ply	Main Body of 26 SWG and partitions of tin sheet. Doors will be fitted 15 mm above the ground level with main body. Right hand door and left-hand door should have two racks. The rack partition should have guides (-). The doors should have suitable piano hinges at duly spot welded/riveted etc. with main body. Provision for locking system (-) & two folding type handles 6 mm dia. for carrying box. Provision for supporting rest for hanging doors to be made. The overall box size shall be 470 mm× 450 mm× 280 mm. The box should be powder-coated or made of galvanized steel to enhance durability and increase the service life of the box.	1
Panel for Connections	MDF Wooden box/ plastic ABS 170 mm x 140 mm, Taper 50 mm back and 25 mm front side, painted white, markings in black. DC Voltmeter: 0 - 20 V with resolutions of 0.4 V. 0- I Ammeter with 20 mA resolution with max 1 Amp current measuring capacity. Rectifier: Four diode rectifier bridge circuit (Full wave rectification of AC). Panel connections: For input I output etc.	1
Light Emitting Diode (LED)	White LED, 5 mm size, forward voltage 2–3V, luminous intensity ≥ 1000 mcd, supplied in protective packaging.	10
Laboratory Thermometer	Laboratory thermometer (alcohol-filled), range -10°C to 110°C , least count 1°C , with protective plastic/cardboard casing and cushioned ends.	1
Clinical Thermometer	Oral Clinical thermometer along with packing, graduation 95°F - 108°F and 35°C - 43°C . ISI mark.	1
Spherical Plano, Concave Lens and Double Convex Lens	Set of spherical lenses (plano concave and double convex), diameter 50 mm, thickness 12–15 mm, made of optical-grade material with smooth polished surfaces suitable for optical experiments.	1
Perspex Plano Convex Cylindrical Lens	Three Perspex bar pieces: Plano Concave Lens, Double Convex Lens and Plano Concave Lens. Each made from Perspex sheet of size 50 mm x 20 mm x 12 mm/15mm. The slab should help perform multiple optical experiments.	1
Square Glass Slab	Square glass slab, size 50 mm x 50 mm x 10mm-12 mm thick.	1

Triangular Glass Prism	Equilateral glass prism of side 25 mm $\pm$ 1 mm, made of optical-grade glass with smooth polished faces, free from bubbles and scratches.	1
Generator Assembly	Generator assembly mounted on transparent Perspex base (170 mm $\times$ 120 mm), overall height $\sim$ 130 mm, with dual coil system delivering output up to 15V and 500 mA, fitted with metal shafts, bush bearings, and gear mechanism, ensuring smooth and stable operation.	2
Boiling Tube	Borosilicate Glass, 90 mm height x 20 mm dia with uniform wall thickness, smooth finish, and fitted cork.	2
Y-Tube	Borosilicate Glass tube, diameter 12 mm. Overall length 105 mm fitted with cork (To fit into item No.15 bell jar inner side).	2
Cover slips	Glass cover slips, size 18 mm $\times$ 18 mm, thickness 0.2–0.3 mm, clear, smooth, and free from scratches.	20
Bell Jar	Borosilicate 3.5 mm thick glass, neck inside dia.18/19 mm x 20/22 mm height. Overall length 85/95 mm x inside dia. 55 mm with rim diameter 62/64 mm. To fit item No.13 from inner side, item no.28 from upper side and item no.73 from upper side mouth.	1
Double mouthed flask	Borosilicate. Thickness 1.5 mm with one mouth dia. 26 mm x 25 mm height (with rim) and other dia. 06 mm x 28 mm length. Bulb outer dia. 48 mm with overall length 110 mm.	1
Glass Tube	Length 155 mm x outer dia. 06 mm, Soda glass, finished ends. This spec mention in point 18.	2
Glazed Glass Plate	Glass plate size 100 mm x 100 mm x 2.5 mm/3mm.	1
Double Concave Lens	Double concave lens made of optical-grade glass, diameter 50 mm, focal length $\sim$ 20 cm, with smooth polished surfaces.	1
Double Convex lens	Double convex lens made of optical-grade glass, diameter 50 mm, focal length $\sim$ 20 cm, with smooth polished surfaces.	1
Concave Mirror	Concave mirror of diameter 50 mm and focal length $\sim$ 20 cm, made of optical-grade glass with highly polished reflective surface, free from distortion and scratches.	1
Convex Mirror	Convex mirror of diameter 50 mm and focal length $\sim$ 20 cm, made of optical-grade glass with smooth reflective surface, free from distortion and scratches.	1
Graduated Syringe	Plastic graduated syringe, capacity 10 mL, with clear graduation markings (least count 0.5–1 mL), smooth plunger operation, and leak-proof design.	1
Half Protractor	Semi-circular protractor (0–180 $^{\circ}$), made of transparent plastic, minimum diameter 100 mm, with clearly marked graduations.	1
Ping pong ball	Plastic ping pong ball, diameter $\sim$ 40 mm, lightweight, smooth surface, suitable for demonstration experiments.	1
Thermocol Ball	Thermocol (polystyrene) ball, diameter 40 mm, lightweight and uniform shape.	1
Transparent rubber plastic tube	Transparent flexible plastic tube, inner diameter $\sim$ 8 mm, length 1 meter, smooth and kink-resistant.	1

Electroscope Assembly	(i) Aluminium disc Material: Aluminium (noncorrosive grade), Diameter: 52 mm $\pm$ 2 mm, Thickness: 24 SWG (~0.56 mm), Finish: Smooth, uniform, and burr free edges, Polished surface (no oxidation, scratches, or sharp edges), Suitable for uniform electrostatic charge distribution (ii) Aluminium rod of 3 mm $\pm$ 0.2 mm diameter and 50 mm $\pm$ 2 mm length, rigidly fixed at the centre of the disc, with a 90° bend at 8 mm $\pm$ 1 mm from the lower end, having a smooth, corrosion-free, burr-free finish.(iii) Rubber cork of insulating material, 25 mm $\pm$ 2 mm axial length, with smaller face diameter 17 mm $\pm$ 1 mm and larger face sized for snug fit in standard jar, having a central hole to firmly hold the aluminium rod and ensure electrical insulation and mechanical stability.(iv) Compatible with a transparent insulating jar (glass/acrylic) of minimum 100 mm height, with cork providing a snug, stable, and airtight fit at the jar mouth($\approx$ 17–20mm), ensuring proper sealing and interchangeability. (v) All components shall be properly aligned and firmly assembled (disc horizontal, no looseness), the unit shall be safe and ready for classroom use, and shall pass visual and functional tests with no defects and clear response to electrostatic charge.	1
Plastic sheet HDPE	Size 100 mm x100 mm x 3 mm. White milky.	1
Plain mirror strips	Plain mirror strips, size 150 mm $\times$ 30 mm $\times$ 2 mm, made of clear glass with smooth polished edges and distortion-free reflective surface.	3
Magnifying glass	Optical glass, focal length 120 mm, with plastic handle with case.	2
Glass slides	Standard plain glass slide.	10
Permanent Glass slides	Permanent glass slide of Hydra budding specimen, size 75 mm $\times$ 25 mm, thickness 1.0–1.2 mm, made of clear optical-grade glass with smooth polished edges, properly sealed mount, free from air bubbles, scratches, or distortion, and supplied in a protective plastic case.	1
Permanent Glass slide	Permanent glass slide of Amoeba (binary fission), size 75 mm $\times$ 25 mm, thickness 1.0–1.2 mm, made of optical-grade glass, properly sealed, free from air bubbles, scratches, or distortion, supplied in protective case.	1
Permanent Glass slide	Permanent glass slide of Paramecium, size 75 mm $\times$ 25 mm, thickness 1.0–1.2 mm, made of optical-grade glass, properly sealed, free from air bubbles, scratches, or distortion, supplied in protective case.	1
G" Clamp	G-clamp with 50 mm jaw size and maximum opening 40 mm, made of durable metal body with threaded metal screw, corrosion-resistant finish, and stable locking mechanism.	2
Glass Rod	Length 150mm, dia. 06/07 mm.	2
Fuses & Model showing heating effect of current	Model demonstrating heating effect of current, comprising resistance wires (40 SWG) of three different materials (nichrome, copper, and constantan) mounted in a transparent insulating enclosure (approx. 25 mm diameter $\times$ 50 mm height), with standard banana plug terminals for electrical connections	1

	compatible with ammeter/galvanometer, enabling comparative study of heating effects.	
Ray Streak Box	Ray streak box made of 24 SWG metal sheet, with slit arrangement (~0.75 mm width), fitted with 3.2V bulb in standard screw-type bulb holder, provided with insulated external terminals (banana/screw type) for power connection, and equipped with ventilation slots for effective heat dissipation, with internal matte black finish for clear ray formation. Size of the front face: 80 to 100 mm x 70 mm with M shape window of size of 30 mm x 30 mm starting from centre bottom side of front face. Size of two side faces: 40 mm x 70 mm. butt welded to the front face. Size of the M shape window cover 30 mm x 40 mm. Front face, projected to the height of 15 mm having 3 slits of 0.75 mm thickness starting from bottom. Height of slits 30 mm, second slits at the centre. Distance between the slits 5 mm. Screw type bulb holder spot welded from inside of front face at the centre of the window. Having one bulb of 3.2 V, bulb to be projected in the windows of front face. Complete apparatus painted in black colour. It should have Bulb sockets, power connections, and ventilation for heat dissipation.	1
9 Volt Battery	9 Volt Battery	2
Rubber bands	Rubber bands	30
Rubber suckers	50mm diameter.	2
Rubber Cork	Nos. 2,3,4,5 and 6.	2
Thin rubber sheet	100 x100 x 2 mm	3
Magnetic Compass	Metal case, polystyrene transparent top, magnetized needle with north marked red and south marked blue, 50 mm size.	1
U shape Magnet	Arm length 50 mm, N and S poles to be marked. Alnico	1
Cylindrical Magnet	Dia. 16 mm and length 25 mm. Ferrite	1
Ring Magnet	O.D. 18 mm and thickness 3 mm. Ferrite	1
Disc Magnet	Dia. 35 mm and 8 mm thick. Ferrite	1
Spirit Lamp	Steel body along with brass wick holder dia 65mm, height 50mm	1
Color disk	Thick ivory white card sheet of diameter 100 mm, with seven colours sectors and pasted on generator assembly wheel. (1st Sector) - 70° - Lemon Yellow No. 121 (2nd Sector) - 65° - Light Green No. 165 (3rd sector) - 45° - Turquoise Blue No. 163 (4th Sector)- 40° - Prussian Blue No. 149 (5th Sector)- 45°- Mauve No. 161 (6th Sector)- 50° - Orange No. 143 (7th Sector) - 45° - Poster Red No. 116 Total : 360° ,	1

Aluminium Ruler cum Lever	Anodized Aluminium Ruler 29 mm x 300 mm x 1.5 mm. Marking in inch, cm and mm (smallest division 1/10" and 01 mm respectively). Graduation printed in black. With holes (diameter 2.5 mm) at 3 cm intervals.	1
Plug Key	One way plug key (Brass), base 80 mm x 55 mm.	1
Copper Wire	100 cm long, thickness 24 SWG.	1
Copper Strip	80mmx5mmx 1mm	1
Zinc Strip	80mmx5 mm x1mm	1
Magnesium Ribbon Roll	Magnesium ribbon roll (~25 g), minimum length 1 meter, clean and free from heavy oxidation, supplied with fine-grade sandpaper for removal of oxide layer before experiments.	1
Test tube holder	Length 200 mm to hold the test tubes upto 10 mm dia and one for 20 mm dia boiling tube.	1
Rods with holder for conduction of heat	Total length of holder 215 mm/220 mm with plastic/wooden handle at one end and brass pipe I.D. 6.3mm x 50mm at another end forming T shape. M.S rod & aluminium rod shall be 200mm length. And Dia. 6mm grooved on rod ten equal segments.	1
Tuning Fork	Tuning fork made of steel, frequency 256 Hz, prong length ~110 mm, with smooth surface and corrosion-resistant nickel/chrome plating for durability and consistent acoustic performance.	1
Slinky	Steel Wire Spiral roll, outer dia. 52 mm and close size 68mm to 70mm.	1
Deflagrating Spoon	Dia. 12 mm, MS Sheet Katory welded with 02 mm dia. MS wire. Overall height 165 mm, along with cork (to fit into item no. 16) of smaller dia 24mm, bigger dia 28.5mm and length 26.5 mm with heat-resistant and corrosion-resistant coating, supplied with cork for fitting into flask.	1
Periscope (Frame with mirror)	Hollow PVC pipe dia 64mm and ID 60mm length 250mm and cut at opposite ends. Taper shape up to 65mm and both ends closed with plastic piece up to cut position and both end to fit 50mm plane mirrors with rotatable frame.	1
Scalpel	Overall length 140 mm/150 mm cutlery steel, blade tempered (standard).	1
Tongs pair	Dia 05 mm, overall length 160 mm, chrome plated.	1
Surgical Scissor	125 mm, one prong blunt and other pointed, standard. corrosion-resistant, with insulated plastic-coated handles.	1
Claw hammer with handle	Forged, approximate weight 225 gm with wooden handle.	1
Steel Ball	Steel Ball with a hook, dia. 19/20 mm. Hollow ball	1
Steel Wire (Sitar String)	Steel, length 100 cm, thickness 24 SWG.	2
Woolen Cloth	Size 200 mm×200 mm, dark colour (preferably black or dark brown), medium thickness (~200–300 GSM), suitable for electrostatic experiments.	1
Thermocol sheet	Size 100 mm x 100mm x 25 mm.	1
Spring balance	Spring balance, capacity 250 g, least count 10 g, accuracy ±2% of full scale, with zero adjustment mechanism and clear graduation markings.	1

Decimeter cube vessel	Transparent polystyrene. Inside dimension 100 mm x 100 mm x 100 mm top open, 9 lines at 1 cm distance on one side 100 equal 1 cm squares on the other. Graduation accuracy ± 1 mm, flat surfaces, and open top.	1
Laboratory Stand 1) Boss head 2) Clamp	MS rod (10 mm diameter $\times$ 375 mm length) mounted on heavy cast iron base (minimum 150 mm $\times$ 100 mm $\times$ 15–20 mm thickness, ~ 1 kg weight) for stability, with boss head and adjustable aluminium clamp, corrosion-resistant finish.	1
Sun dial	Sundial with circular plastic base (diameter 100–110 mm, thickness ~ 3 mm), milky white finish, with clearly marked angular graduations and centrally fixed gnomon of height ~ 50 mm (± 5 mm), ensuring stable placement and accurate shadow reading.	1
Pulley with frame & Rod	Plastic wheel (~ 50 mm diameter) mounted on metal frame (75 mm $\times$ 17 mm), with smooth rotating axle and L-shaped support rod (6 mm diameter, ~ 115 mm length), ensuring low friction operation.	2
Aluminium wire and pointer	Aluminium wire (~ 3 mm diameter, 45 cm length) with central mounted pointer (0.5 mm wire, ~ 60 mm length), forming a stable indicator assembly.	1 set
Bimetallic strip	Bimetallic strip comprising bonded brass and steel strips mounted on MS frame (rod ~ 6 mm diameter), demonstrating differential thermal expansion.	1
Resistors	Set of resistors (5Ω , $10\Omega \times 2$, 20Ω), mounted in insulated casing, power rating minimum 1 W, with clearly marked values and terminals compatible with standard electrical connections in the kit.	1 set
Circuit Board	Complete base of plastic, battery holder, bulb holder with switch, banana sockets and lower side all joined with Patti and copper wire. Two spare bulbs. A Circuit Diagram.	1 set
Measuring cylinder	Transparent plastic measuring cylinder (100 mL capacity), with stable base, clear graduation markings (least count 1 mL) in permanently molded or printed scale with high contrast, made of chemical-resistant plastic.	3
Plastic boxes	1. 220 mm $\times$ 125 mm $\times$ 85 mm. 2. 172/175 mm $\times$ 130 mm $\times$ 70 mm Lid should be clip close type.	1 each
Litmus paper	Litmus paper (red and blue), supplied in booklet form (approx. 75 mm $\times$ 50 mm), each booklet containing minimum 50 strips, with clear colour change and moisture-resistant packaging.	5 booklets each
Plastic funnel	Plastic, transparent top dia, 50 mm	3
Micro Test tube 4 ml	Borosilicate Glass tube, diameter 10 mm x 40 mm height with rim	10
W tube	Borosilicate glass, 2 mm thick x 8 mm dia. having length of arm 70–75 mm with wide mouth in one arm.	5
China Dish	China dish made of glazed porcelain (uniform, chemical-resistant glaze), diameter 70–75 mm, wall thickness ~ 2 –3 mm, with smooth, crack-free surface and suitable for heating applications	1
Micro Spatula	Micro spatula made of stainless steel, ~ 100 mm length, double-ended with flat blade tip (~ 5 –8 mm width) and smooth rounded	1

	edges, corrosion-resistant with polished finish, suitable for handling small quantities of chemicals.	
Forceps	Stainless steel 100 mm long pointed	2
Micro Test Tube brush	Soft hairs for 4mL test tube cleaning. Should have a handle to hold the brush	1
Tripod Stand	Tripod stand made of cast iron, height 100 mm, with top triangular support of 7 cm×7 cm×7 cm. Legs made of 4 mm diameter metal rod, firmly fixed for stability. Leg tips should be smooth and properly finished for safe use. The surface should have heat-resistant black enamel or anti-rust coating for durability.	1
Pasteur Pipette (Dropper)	Low density poly ethylene (LDPE) capacity 3 ml with screw type and nozzle with clear graduation markings (least count ~0.5 mL), overall length ~150 mm, and flexible bulb for controlled dispensing.	10
Dispensing Bottle	Low Density Poly Ethylene (LDPE) capacity 15 ml. The bottle should be leak proof, transparent, non-toxic plastic, chemical compatibility.	20
Plastic Vials	High Density Poly Ethylene (HDPE), height 55 mm, dia 15 mm. It should be transparent.	15
Micro Test Tube Stand	Acrylic Plastic moulded, size 100 mm x 27 mm x 20 mm, 04 blind holes to hold Micro Test	2
Rubber Balloons	Tubes, depth of hole 15mm. 5 small and 5 big	1 packet (each 5 No)
Cotton Thread	Reel in white colour. Complete spool of 500- 600 m	1
Wash Bottle	LDPE, capacity 125 mL	1
Petri dish	Soda glass dish outer dia. 80mm x 15 mm depth, depth ~15 mm, wall thickness ~1.5–2 mm, with smooth, transparent surface and uniform finish.	1
Beaker (50ml)	Borosilicate glass, capacity 50 mL, height 56 mm, diameter 42 mm with rim, wall thickness ~1.5–2 mm.	3
Watch glass	Soda glass, diameter 50 mm.	1
Mirror/Lens stand	Plastic mirror stand 120mm x 30mm x 75 mm. height with base.	3
Cotton Roll	Weight: 50 gm	1
Single holed cork	Standard, size no.7, hole dia 6mm.	2
Plastic straw/glass tubes	130-150mm and dia.6mm.	5
Transparent zipper plastic bag	MediumSized,200mmx 200mm.	5
Thick Black paper	10cm x10cm. Standard thickness, thickness ~150–200 GSM, with uniform matte finish.	6
Muslin cloth	Cloth of size15cmx15cm, lightweight fabric (~80–120 GSM), for performing science experiments.	6
Iodine solution	Packed in LDPE dispensing bottle of 60 ml.	1

Alum crystals	Packed in plastic container-50 gm	1
Pressure table	Wooden base (~100 mm×100 mm×10–12 mm) with smooth polished surface and rounded edges, provided with four holes (~1 mm dia) at corners, and four mild steel nails (~80–100 mm length) with broad heads and corrosion-resistant coating, suitable for pressure experiments.	1 set
Wire Gauze	100mm x100mm with frame -	2
Compound Microscope	ISI based microscope: Metal Body, overall height approx. 320 mm, base 125 mm x 200 mm. Achromatic good quality lenses. Two Objectives: 10X& 45X. Two Eyepieces: 10X& 15X	1
Yeast Powder	Dry and active, supplied in sealed plastic container, suitable for fermentation experiments. 20g	1
Aluminium Paper	10cm X15cm.	1
Split Cork no. 6	Uniform compressible material, cleanly cut and suitable for laboratory fittings.	1
Conical Flask 100 ml.	Borosilicate glass 100mL - Graduated	1
Multi meter (Handheld)	DC voltage (200 mV–600 V), AC voltage (200–600 V), DC current (200 μ A–10A), resistance (200 Ω –2M Ω), accuracy $\pm$ 1% for DC measurements, input impedance $\geq$ 10M Ω , powered by 9V battery (6F22/PP3 type, included), with clear digital display, probes, and protective casing.	2
Soldering Station with soldering Iron and Soldering wire	Soldering station (70 W) operating on 220– 240V AC, 50 Hz, with digital temperature control (ambient to ~380°C), fast heat-up (<30 sec), temperature stability $\pm$ 2%, anti-static housing, supplied with soldering iron, stand, and rosin-core solder wire (tin-lead or lead- free, ~0.8–1 mm diameter).	2
Galvanometer	Clear transparent front cover, scale length ~80 mm, sensitivity ~50–100 μ A full-scale deflection, internal resistance ~50–100 Ω , accuracy $\pm$ 2% FSD, provided with zero adjustment mechanism and robust terminals for electrical connections.	5
Consumables	Resistors (100 Ω to 100k Ω range), capacitors (ceramic and electrolytic, 10 nF to 100 μ F range), and inductors of different ratings, supplied as one packet each containing minimum 10 pieces per value/type, clearly labelled.	1 Packet each
Board	Arduino Uno (3 nos.) and Arduino Nano (3 nos.) boards, breadboards (minimum 3 nos., size ~170 mm×55 mm), and zero PCBs (minimum 3 nos., size ~80 mm×50 mm), supplied with basic accessories (connecting wires, header pins), all clearly packaged and labelled.	1 Packet each

Land Border Undertaking
(On Bidder's Letter Head)

I have read the clause regarding restrictions on procurement from a bidder of a country which shares a land border with India; I certify that this bidder is not from such a country or, if from such a country, has been registered with the Competent Authority. I hereby certify that this bidder fulfils all requirements in this regard and is eligible to be considered. (Where applicable, evidence of valid registration by the Competent Authority shall be attached.)

Place: _____

Date: _____

Signature of Bidder: _____

Name of Signatory: _____

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 THE SUPPLY INSTALLATION, COMMISSIONING AND TRAINING OF 60 SCIENCE CENTRES, SCIENCE KITS AND ROBOTICS/AI/CODING TRAINING IN THE SCHOOLS OF JAMMU AND KASHMIR

TENDER NO.: EdCIL/DES/SC/SK/RACT/2026/002

Dated: 31.07.2026

Part 2 – Financial 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

Annexure XXI

Financial bid submission form

To:

Chief General Manager (DES)

EdCIL (India) Limited

EdCIL House, 18 A, Sector-16 A

NOIDA – 201301 (U.P.)

Dated: __/__/2026

Dear Sir,

We, the undersigned, offer to “**Selection of System Integrator for The Supply Installation, Commissioning And Training of 60 Science Centres, Science Kits and Robotics/Ai/Coding Training in The Schools of Jammu And Kashmir**” in accordance with your request for proposal dated __/__/2026.

Our attached Financial Bid for “Selection of System Integrator for the Supply Installation, Commissioning and Training of 60 Science Centres, Science Kits and Robotics/AI/Coding Training in the schools of Jammu and Kashmir” 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 the Supply Installation, Commissioning and Training of 60 Science Centres, Science Kits and Robotics/AI/Coding Training in the schools of Jammu and Kashmir

Name of the Owner Individual/ Firm:

Solution I

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	Science Centres	60					
Total (Incl. Taxes)							

Total Project Value (Incl. Taxes) (In Words): _____

Solution II

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.	Robotics Training	237					
2.	AI and Coding Training	120					
Total (Incl. Taxes)							

Total Project Value (Incl. Taxes) (In Words): _____

Solution III

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	Science kit	4511					
Total (Incl. Taxes)							

Total Project Value (Incl. Taxes) (In Words): _____

Note:

- It is mandatory for bidder to quote for each of the solutions.
- 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.
- 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: